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(54) **NETWORK SYSTEM FOR PRESENTING ADVERTISING** 4186 413 A 1 1980 Mortimer 358 146

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FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

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See application file for complete search history

(56) **References Cited**

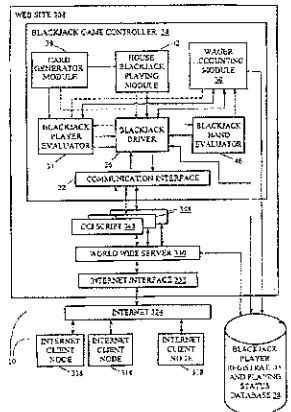
U.S. PATENT DOCUMENTS

3,796,433 A	3 1974	Fraleigh et al	
3,848,193 A	11 1974	Martin et al	325 53
3,987,398 A	10 1976	Fung	325 309
4,170,782 A	10 1979	Miller	358 84

(57) **ABSTRACT**

A networked system is disclosed for presenting advertising during on-line interactions between a user and a service of a network (e.g., the Internet, interactive cable, and/or a LAN). Advertisements (ads) are presented to a networked user unrequestedly during user interactions with the service. The user can activate the ads (via hyperlinks) for receiving additional advertising. The system gathers user data and/or develops user profiles for selectively presenting ads, promotions, discounts, etc. targeted to receptive users. In exchange for viewing such selective presentations, on-line access to the service is provided, the service including, e.g., (a) playing on-line interactive games (e.g., blackjack and poker), (b) providing access to the network itself (e.g., an Internet service provider), and/or (c) providing access to substantially any interactive service accessible via (b). The system can provide free/reduced cost network services to the user for viewing unrequested advertising. The system can be provided for a casino.

109 Claims, 14 Drawing Sheets



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U.S. PATENT DOCUMENTS

4 224,644 A	9 1980	Lewis et al	360 72.2	5 075 771 A	12 1991	Hashimoto	358 84
4 283 709 A	8 1981	Lucero et al	340 147	5 077 607 A	12 1991	Johnson et al	358 86
4 287 592 A	9 1981	Paulish et al	370 88	5 083 271 A	1 1992	Thacher et al	
4 288 809 A	9 1981	Yabe	358 12	5 093 918 A	3 1992	Heyen et al	395 725
4 305 101 A	12 1981	Yarbrough et al	360 69	5 099 319 A	3 1992	Esch et al	358 86
4 307 446 A	12 1981	Barton et al	364 200	5 105 184 A	4 1992	Pirani et al	340 721
4 338 644 A	7 1982	Staar	360 132	5 133 075 A	7 1992	Risch	395 800
4 339 798 A	7 1982	Hedges et al	364 412	5 141 234 A	8 1992	Boylan et al	
4 347 498 A	8 1982	Lee et al	340 825.02	5 151 789 A	9 1992	Young	385 194 1
4 355 806 A	10 1982	Buck et al	273 85 G	5 159 549 A	10 1992	Hallman Jr et al	364 412
4 381 522 A	4 1983	Lambert	358 86	5 177 680 A	1 1993	Tsukino et al	364 401
4 405 946 A	9 1983	Knight	358 192.1	5 182 640 A	1 1993	Iakano	358 86
4 429 385 A	1 1984	Cicchelli et al	370 92	5 187 787 A	2 1993	Skccn et al	395 600
4 467 424 A	8 1984	Hedges et al	364 412	5 200 823 A	4 1993	Yoneda et al	358 146
4 476 488 A	10 1984	Merrell	358 86	5 220 420 A	6 1993	Hoarty et al	358 86
4 488 179 A	12 1984	Kruger et al	358 181	5 220 501 A	6 1993	Lawlor et al	364 408
4 494 197 A	1 1985	Troy et al	364 412	5 220 657 A	6 1993	Bly et al	395 425
4 528 643 A	7 1985	Freemy, Jr	364 900	5 224 706 A	7 1993	Bridgeman et al	273 85
4 531 187 A	7 1985	Uhland	364 412	5 227 874 A	7 1993	Von Kohorn	358 84
4 536 791 A	8 1985	Campbell et al	358 122	5 230 048 A	7 1993	Moy	395 600
4 575 579 A	3 1986	Simon et al	178 4	5 231 493 A	7 1993	Apitz	358 146
4 602 279 A	7 1986	Freeman	358 86	5 233 533 A	8 1993	Edstrom et al	364 468
4 614 342 A	9 1986	Takashima	273 85	5 241 465 A	8 1993	Oba et al	364 401
4 636 951 A	1 1987	Harlick	364 412	5 257 789 A	11 1993	LeVasseur	273 309
4 641 205 A	2 1987	Beyers Jr	360 33.1	5 257 810 A	11 1993	Schori et al	273 292
4 677 466 A	6 1987	Lert, Jr et al	358 84	5 261 042 A	11 1993	Brandt	395 156
4 691 351 A	9 1987	Hayashi et al	380 10	5 265 033 A	11 1993	Vajk et al	364 514
4 691 354 A	9 1987	Palminteri	380 15	5 283 639 A	2 1994	Esch et al	348 6
4 701 794 A	10 1987	Froling et al	358 147	5 283 731 A	2 1994	Lalonde	364 401
4 706 121 A	11 1987	Young	358 142	5 283 734 A	2 1994	Von Kohorn	364 412
4 745 468 A	5 1988	Von Kohorn	358 84	5 283 856 A	2 1994	Gross et al	395 51
4 751 578 A	6 1988	Reiter et al	358 183	5 285 272 A	2 1994	Bradley et al	348 6
4 751 669 A	6 1988	Sturgis et al	345 115	5 301 028 A	4 1994	Banker et al	348 570
4 760 527 A	7 1988	Sidley	364 412	5 305 195 A	4 1994	Murphy	364 401
4 768 110 A	8 1988	Dunlap et al	360 33.1	5 319 455 A	6 1994	Hoarty et al	348 7
4 775 935 A	10 1988	Youtick	364 401	5 319 707 A	6 1994	Wasilewski et al	380 14
4 815 030 A	3 1989	Cross et al	364 900	5 320 356 A	6 1994	Cauda	273 292
4 821 102 A	4 1989	Ichikawa et al	358 183	5 321 241 A	6 1994	Craine	235 380
4 823 122 A	4 1989	Mann et al	340 825.28	5 326 104 A	7 1994	Pease et al	273 292
4 829 569 A	5 1989	Seth-Smith et al	380 10	5 337 155 A	8 1994	Cornelis	348 473
4 842 275 A	6 1989	Tsatskin	273 1 R	5 339 239 A	8 1994	Manabe et al	364 401
4 845 739 A	7 1989	Katz	379 92	5 343 239 A	8 1994	Hennig	348 12
4 856 787 A	8 1989	Itkis	273 237	5 343 300 A	8 1994	Lappington et al	348 478
4 866 700 A	9 1989	Berry et al	370 58.1	5 345 594 A	9 1994	Tsuda	455 18
4 868 866 A	9 1989	Williams Jr	380 49	5 347 632 A	9 1994	Lilepp et al	395 200
4 873 662 A	10 1989	Sargent	364 900	5 351 970 A	10 1994	Fioretti	273 439
4 875 164 A	10 1989	Monfort	364 412	5 353 218 A	10 1994	De Lapa et al	364 401
4 876 592 A	10 1989	Von Kohorn	358 84	5 355 480 A	10 1994	Smith et al	395 600
4 890 321 A	12 1989	Seth-Smith et al	380 20	5 357 276 A	10 1994	Banker et al	348 7
4 902 020 A	2 1990	Auxier	273 256	5 361 393 A	11 1994	Rossillo	395 650
4 908 707 A	3 1990	Kinghorn	358 147	5 377,354 A	12 1994	Scannell et al	395 650
4 908 713 A	3 1990	Levine	385 335	5 393 067 A	2 1995	Paulsen et al	273 292
4 926 255 A	5 1990	Von Kohorn	358 84	5 398 932 A	3 1995	Eberhardt et al	273 138 A
4 926 327 A	5 1990	Sidley	364 412	5 403 015 A	4 1995	Forte et al	273 304
4 974 149 A	11 1990	Valenti	364 200	5 404 505 A	4 1995	Levinson	395 600
4 975 904 A	12 1990	Mann et al	370 85 1	5 414 773 A	5 1995	Handelman	380 49
4 975 905 A	12 1990	Mann et al	370 85.1	5 426 594 A	6 1995	Wright et al	364 514 R
4 977 455 A	12 1990	Young	358 142	5 428 606 A	6 1995	Moskowitz	370 60
4 987 486 A	1 1991	Johnson et al	358 86	5 429 361 A	7 1995	Raven et al	273 138 A
4 991 011 A	2 1991	Johnson et al	358 141	5 431 407 A	7 1995	Hofberg et al	273 292
4 992 940 A	2 1991	Dworkin	364 401	5 434 978 A	7 1995	Dockter et al	395 200
4 994 908 A	2 1991	Kuban et al	358 86	5 437 462 A	8 1995	Breeding	273 292
5 001 554 A	3 1991	Johnson et al	358 86	5 440 262 A	8 1995	Lum et al	327 544
5 008 853 A	4 1991	Bly et al	364 900	5 442 771 A	8 1995	Filepp et al	395 650
5 009 429 A	4 1991	Auxier	273 240	5 446 919 A	8 1995	Wilkins	455 6.2
5 034 807 A	7 1991	Von Kohorn	358 84	5 471 629 A	11 1995	Risch	395 800
5 038 022 A	8 1991	Lucero	235 380	5 483 466 A	1 1996	Kawahara et al	364 514 C
5 053 889 A	10 1991	Nakano et al	358 480	5 491 517 A	2 1996	Kreitman et al	
5 057 915 A	10 1991	Von Kohorn	358 84	5 498 003 A	3 1996	Gcchter	273 434
5 058 108 A	10 1991	Mann et al	370 85 1	5 504 675 A	4 1996	Cragun et al	364 401
5 073 931 A	12 1991	Audebert et al	380 23	5 505 449 A	4 1996	Eberhardt et al	273 138 A
				5 507 491 A	4 1996	Gatto et al	273 139
				5 508 731 A	4 1996	Kohorn	348 1

US 7,496,943 B1

Page 3

5 511 160 A	4 1996	Robson	395 162	5 713 795 A	2 1998	Kohorn	463 17
5 515 098 A	5 1996	Carles	348 8	5 717 860 A *	2 1998	Graber et al	395 200.12
5 526 035 A	6 1996	Lappington et al	348 13	5 718 431 A	2 1998	Ornstein	273 292
5 526 427 A	6 1996	Thomas et al	380 20	5 722 418 A	3 1998	Bro	128 732
5 528 490 A	6 1996	Hill	364 403	5 724 091 A	3 1998	Freeman et al	348 13
5 532 923 A	7 1996	Sone	364 138	5 724 106 A	3 1998	Autry et al	348 734
5 537 586 A	7 1996	Amram et al	395 600	5 724 424 A *	3 1998	Gifford	380 24
5 539 450 A	7 1996	Handelman	348 12	5 724 425 A	3 1998	Chang et al	380 25
5 539 822 A	7 1996	Lett	380 20	5 729 212 A	3 1998	Martin	340 870.28
5 544 892 A	8 1996	Breeding	273 292	5 729 279 A	3 1998	Fuller	348 8
5 549 300 A	8 1996	Sardarian	273 292	5 732 338 A	3 1998	Schwob	455 158.5
5 557 658 A	9 1996	Gregorek et al	379 67	5 732 949 A	3 1998	Josephs	273/292
5 557 721 A	9 1996	Fite et al	395 148	5 734 589 A	3 1998	Kostruski et al	364 514 A
5 559 312 A	9 1996	Lucero	235 380	5 734 853 A	3 1998	Hendricks et al	395 352
5 561 707 A	10 1996	Katz	379 88	5 735 525 A	4 1998	McCrea Jr	273 309
5 569 082 A	10 1996	Kaye	463 17	5 735 742 A	4 1998	French	463 25
5 572 643 A *	11 1996	Judson	395 793	5 737 619 A	4 1998	Judson	715 500
5 576 951 A	11 1996	Lockwood	395 227	5 740 369 A	4 1998	Yokozawa et al	395 200 47
5 577 266 A	11 1996	Takahisa et al	455 66	5 740 549 A *	4 1998	Reilly et al	705 14
5 579 537 A	11 1996	Iakahisa	455 66	5 746 656 A	5 1998	Bezick et al	463 42
5 581 479 A	12 1996	McLaughlin et al	364 514 A	5 748 742 A	5 1998	Tisdale et al	380 49
5 583 563 A	12 1996	Wanderscheid et al	348 9	5 749 735 A	5 1998	Redford et al	434 307
5 585 866 A	12 1996	Miller et al	348 731	5 749 785 A	5 1998	Rossides	463 25
5 586 257 A	12 1996	Perlman	463 42	5 751 338 A	5 1998	Ludwig Jr	348 17
5 586 766 A	12 1996	Forste et al	273 309	5 752 160 A	5 1998	Dunn	455 5 1
5 586 936 A	12 1996	Bennett et al	463 42	5 755 621 A	5 1998	Marks et al	463 42
5 586 937 A	12 1996	Menashe	463 41	5 759 101 A	6 1998	Von Kohorn	463 40
5 589 892 A	12 1996	Knee et al	348 731	5 767 894 A	6 1998	Fuller et al	348 8
5 592 212 A	1 1997	Handelman	348 12	5 768 382 A	6 1998	Schneier et al	380 23
5 593 349 A	1 1997	Miguel et al	463 30	5 770 533 A	6 1998	Franchi	463 42
5 597 162 A	1 1997	Franklin	273 292	5 774 591 A	6 1998	Black et al	382 236
5 597 307 A	1 1997	Redford et al	434 118	5 774 664 A	6 1998	Hiday et al	395 200 48
5 600 364 A	2 1997	Hendricks et al	348 1	5 774 670 A	6 1998	Montulli	
5 600 366 A	2 1997	Schulman	348 9	5 774 869 A	6 1998	Toader	705 10
5 603 502 A	2 1997	Nakagawa	273 292	5 779 242 A	7 1998	Kaufmann	273 459
5 605 334 A	2 1997	McCrea Jr		5 779 549 A	7 1998	Walker et al	463 42
5 610 653 A	3 1997	Abecassis	348 110	5 781 245 A	7 1998	Van Der Weij et al	348 563
5 611 730 A	3 1997	Weiss	463 20	5 781 246 A	7 1998	Alten et al	348 569
5 613 190 A	3 1997	Hylton	455 3 1	5 787 156 A	7 1998	Katz	379 93.13
5 613 191 A	3 1997	Hylton et al	455 3.1	5 788 507 A	8 1998	Redford et al	434 307
5 613 912 A	3 1997	Slater	463 25	5 788 574 A	8 1998	Ornstein et al	463 25
5 617 565 A	4 1997	Augenbraun et al	395 604	5 789 892 A	8 1998	Iaki	318 687
5 624 265 A	4 1997	Redford et al	434 307	5 791 991 A *	8 1998	Small	463 41
5 624 316 A	4 1997	Roskowski et al	463 45	5 793 413 A	8 1998	Hylton et al	348 12
5 630 204 A	5 1997	Hylton et al	455 3.3	5 794 210 A	8 1998	Goldhaber et al	705 14
5 634 051 A	5 1997	Thomson	395 605	5 795 156 A	8 1998	Redford et al	434 118
5 635 979 A	6 1997	Kostreski et al	348 13	5 796 945 A	8 1998	Tarabella	395 200 9
5 638 426 A	6 1997	Lewis	379 90	5 798 785 A	8 1998	Hendricks et al	348 1
5 640 193 A	6 1997	Wellner	348 7	5 799 267 A	8 1998	Siegel	704 1
5 643 088 A	7 1997	Vaughn et al	463 40	5 800 268 A	9 1998	Molnick	463 40
5 655 966 A	8 1997	Werdin, Jr et al	463 25	5 802 220 A	9 1998	Black et al	382 276
5 659 350 A	8 1997	Hendricks et al	348 6	5 805 154 A	9 1998	Brown	715 327
5 659 793 A	8 1997	Escobar et al	395 807	5 809 481 A *	9 1998	Baron et al	705 14
5 660 391 A	8 1997	Klasee	273 292	5 809 482 A	9 1998	Strisower	705 30
5 664 948 A	9 1997	Dimitriadis et al	373 307 R	5 812 769 A *	9 1998	Graber et al	395 200 12
5 669 817 A	9 1997	Tarantino	463 13	5 815 551 A	9 1998	Katz	379 88
5 675 752 A	10 1997	Scott et al	395 333	5 816 918 A	10 1998	Kelly et al	463 16
5 679 077 A	10 1997	Pocock et al	463 19	5 818 438 A	10 1998	Howe et al	348 9
5 684 863 A	11 1997	Katz	379 88	5 823 879 A *	10 1998	Goldberg et al	463 42
5 684 918 A	11 1997	Abecassis	386 83	5 828 734 A	10 1998	Katz	379 93 13
5 687 331 A	11 1997	VolK et al	395 327	5 830 067 A	11 1998	Graves et al	463 40
5 687 971 A	11 1997	Khaladkar	273 269	5 830 068 A	11 1998	Brenner et al	463 42
5 688 174 A	11 1997	Kennedy	463 37	5 831 527 A	11 1998	Jones II et al	340 540
5 689 431 A	11 1997	Rudow et al	364 449 7	5 835 126 A	11 1998	Lewis	348 6
5 697 844 A	12 1997	Von Kohorn	463 40	5 839 725 A	11 1998	Conway	273 244
5 702 104 A	12 1997	Malek et al	273 292	5 839 905 A	11 1998	Redford et al	434 307 R
5 702 305 A	12 1997	Norman et al	463 42	5 848 396 A	12 1998	Gerace	705 10
5 707 287 A	1 1998	McCrea Jr	463 27	5 848 397 A *	12 1998	Marsh et al	705 14
5 708 780 A *	1 1998	Levergood et al	395 200.12	5 851 149 A	12 1998	Kidos et al	463 42
5 708 845 A	1 1998	Wistendahl et al	395 806	5 857 911 A	1 1999	Fioratti	463 40
5 709 603 A	1 1998	Kaye	463 17	5 871 398 A	2 1999	Schneier et al	463 16
5 711 715 A	1 1998	Ringo et al	473 9	5 875 108 A	2 1999	Hoffberg et al	364 146
5 713 574 A	2 1998	Hughes	273 292	5 879 233 A	3 1999	Stupero	463 11

5 880 769 A	3 1999	Nemirofsky et al	348 12
5 885 158 A	3 1999	Iorango et al	463 27
5 898 762 A	4 1999	Katz	379 93 12
5 901 246 A	5 1999	Hoffberg et al	382 209
5 901 287 A	5 1999	Bull et al	395 200 48
5 903 317 A	5 1999	Sharir et al	348 589
5 911 582 A	6 1999	Redford et al	434 307
5 916 024 A	6 1999	Von Kohorn	463 40
5 917 725 A	6 1999	Thacher et al	364 410.1
5 917 893 A	6 1999	Katz	379.93.02
5 918 213 A	6 1999	Bernard et al	705 26
5 933 811 A	8 1999	Angles et al	705 14
5 935 004 A	8 1999	Tari et al	463 40
5 937 163 A	8 1999	Lee et al	395 200.48
5 948 061 A	9 1999	Merriman et al	709 219
5 957 695 A	9 1999	Redford et al	434 307
5 964 463 A	10 1999	Moore, Jr	273 274
5 971 397 A	10 1999	Migucl et al	273 371
5 987 498 A	11 1999	Athing et al	709 203
5 990 927 A	11 1999	Hendricks et al	348 6
5 996 006 A	11 1999	Speicher	709 218
5 999 808 A	12 1999	LaDuc	455 412
6 002 393 A	12 1999	Hite et al	
6 005 561 A	12 1999	Hawkins et al	345 327
6 025 837 A	2 2000	Matthews III et al	345 327
6 035 021 A	3 2000	Katz	379 93 12
6 038 554 A	3 2000	Vig	705 400
6 081 750 A	6 2000	Hoffberg et al	700 17
6 085 256 A	7 2000	Kitano et al	709 303
6 154 207 A	11 2000	Farris et al	345 327
6 183 366 B1*	2 2001	Goldberg et al	43 42
6 185 586 B1	2 2001	Judson	715 513
6 208 805 B1	3 2001	Abcassiss	386 126
6 236 360 B1	5 2001	Rudow et al	342.557 13
6 240 555 B1	5 2001	Shoff et al	725 110
6 264 560 B1*	7 2001	Goldberg et al	463 42
6 287 201 B1	9 2001	Hightower	
6 289 319 B1	9 2001	Lockwood	705 35
6 323 894 B1	11 2001	Katz	348 15
6 330 021 B1	12 2001	Devaux	348 14 04
6 335 965 B1	1 2002	Katz	379 93 12
6 349 134 B1	2 2002	Katz	379 92 01
6 457 025 B2	9 2002	Judson	715 501 1
6 553 178 B2	4 2003	Abecassis	
6 712 702 B2	3 2004	Schatz	
2001 0041053 A1	11 2001	Abecassis	

FOREIGN PATENT DOCUMENTS

DE	29 18 846	11 1980
DE	33 25 810 C2	10 1985
DE	36 21 263 A1	7 1988
EP	0113022 A2	11 1983
EP	0 566 454 A1	4 1993
EP	0 697 613 A2	2 1996
EP	0 843 272 A1	5 1998
EP	0 871 132 A1	10 1998
EP	1 126 715 A2	8 2001
EP	0 688 489 B1	11 2001
GB	2 034 995 A	10 1979
GB	2 034 995	6 1980
GB	2121569	12 1983
GB	2 141 907	1 1985
GB	2 141 907 A	1 1985
GB	2183882 A	6 1987
GB	2 185 670	7 1987
GB	2 185 670 A	7 1987
GB	2205188 A	11 1988
GB	2 207 314	1 1989
GB	2 207 314 A	1 1989
GB	2 256 549 A	9 1992
GB	2 256 549	12 1992
GB	2 281 434 A	1 1995

JP	64-18380	1 1989
JP	320459	1 1990
JP	6314184	4 1993
WO	WO 88 04507	6 1988
WO	WO 90 07844	7 1990
WO	WO 92 12488	7 1992
WO	WO 93 09631	5 1993
WO	WO 93 19427	9 1993
WO	WO 94 14281	6 1994
WO	WO 95 31069	11 1995
WO	WO 96 30864	10 1996
WO	WO 96 34466	10 1996
WO	WO 96 36141	11 1996
WO	WO 00 24484	5 2000

OTHER PUBLICATIONS

Advertising brochure for "Track-21" by Digital Biometrics, Inc Gaming Division 5600-Rowland Road Minnetonka MN 55343.

Advertising page-for "Tracker-Plus TP-700 Player Tracking Equipment for Table Games" by Open Technologies 6520 Platt Ave Suite 672 West Hills CA 91307

Advertising pages (15-16 and Order Form) for QOP games in eStrategy Plus believed to be from 1994

Listavanik "Designing On-Line Multiplayer Games in Game Developer" pp. 14-21, Premier 1994

Horton "The Power of ImaginNation" in Advertising Age Mar 7 1994

Information sheet for "Action Tracker Electronic Voucher System Marketing Plan for Manifest Destiny Inc. 1994

O'Connell, "Advertisers Get Benched". Promo The International Magazine for Promotion Marketing p 96 Mar 1994.

Phillips "An Interpersonal Multimedia Visualization System"; *IEEE Computer Graphics & Applications*; 1991 pp 20-27.

Jackson et al.; "InterMail: A Prototype Hypermedia Mail System"; *Hypertext '91 Proceedings*; Dec 1991 pp. 405-409

Borenstein; "Multimedia Electronic Mail: Will the Dream Become a Reality?"; *Communications of the ACM*; Apr 1991 34(4) pp 117-119

Cooperstock et al.; "Why Use a Fishing Line When You Have a Net? An Adaptive Multicast Data Distribution Protocol"; *USENIX Technical Conference*; Jan. 22-26 1996; pp 343 352

Thimm; "A Multimedia Enhanced CSCW Teleservice for Wide Area Cooperative Authoring of Multimedia Documents"; *SIGOIS Bulletin*; Dec 1994, 15(2); pp 49-57

Zuckermann; "Pushing the Envelope on Delivery of Customized Internet"; *New York Times*; Dec 9 1996; 2 pgs.

Borst; "Push Products Redefine Internet"; *PC Week*; Nov 25 1996; p 63

Barrie et al.; "The World Wide Web As An Instructional Tool"; *Science*; Oct 18 1996; 274; pp 371-372.

Brown; "Laplink Keeps In Touch"; *PC Magazine*; Jan 7 1997; p 60

Finnie; "Look Ma! No Brower"; *PC Magazine*; Jan 7, 1997; p 60.

Intermind "pushes 140 New Web Channels Three Times That of Marimba Backweb and Infusion Combined"; *SchwabOnline*; Feb 6 1997; 2 pgs

"Patent Office May Hinder Hopping of Bunny Across Computerscreens"; *Washington Times*; 1997; 2 pgs

Hassett et al.; "Technical Excellence Online Winner. The PointCast Network"; *PC Magazine Online*; 1996; 1 pg

Alsop; "PointCast and Its Wannabes"; *Fortune*; Nov. 25 1996; 2 pgs

Abate; "Major Deal To Map Internet Future"; *San Francisco Examiner*; Dec 12 1996; 1 pg

Zuckerman; "Microsoft and Pointcast in Broadcast Alliance"; *New York Times*; Dec. 12 1996; 1 pg

Bank; "Microsoft Picks On-Line News From PointCast"; *Wall Street Journal*; Dec 12 1996; 1 pg

Bank; "Inverted Web: How Net is Becoming More Like Television To Draw Advertisers"; *Wall Street Journal*; Dec 13 1996; 3 pgs.

Andrus; "User Friendly: PointCast's 'Push' Method Could Be The Next Wave"; *Personal Technology*; Dec 1 1996; 1 pg

- Haar: 'Young Turks Point The Way Offline'; *CyberMedia*; Oct. 14 1996; 2 pgs
- Finnie: 'Free News You Can Use'; *PCCOMPUTING.COM*; 1 pg
- Rapoza: 'I-Server: Gotta Have It'; *PC Week*; Oct. 28 1996; 12(43); 1 pg
- Nelson: 'Information Distribution System: PointCast I-Server Pleases All'; *Info World*; Nov. 18, 1996; p. IW 3 and IW 8
- Dieberger: 'Browsing The WWW by Interacting With a Textual Virtual Environment - A Framework for Experimenting With Navigational Metaphors'; *Hypertext '96*; 1996; pp. 170-179
- Miller: 'News On-Demand for Multimedia Networks'; *ACM Multimedia*; 1993; pp. 383-392
- Story et al.: 'The RightPages Image-Based Electronic Library for Alerting and Browsing'; *IEEE*, Sep. 1992; pp. 17-25
- Ramanathan et al.: 'Architectures for Personalized Multimedia'; *IEEE*; 1994; pp. 37-46
- 'Yahoo! BackWeb Channel Guide!'; *Yahoo Channel Guide. What's Going On?*; 2 pgs
- Ramanathan et al.: '(Title Unknown)'; *Computer Networks and ISDN Systems*; 26; 1994; pp. 1317-1322
- O'Connell: 'Turning On To Schreen Savers'; *IAC News*; 1997; 2 pgs
- 'PED Delivers Personalized Newspapers To Users Desktops'; *IAC News*; 1997; 2 pgs
- 'Journal: A New Prodigy Add-On'; *DB Svcs*; 1997; 1 pg
- 'Journalist Delivers Your Own Personalized Newspaper'; *IAC News*; 1997; 1 pg
- 'UK: Home Computer From Your Own Correspondent'; *Reuters Info Svcs*; 1996; 2 pgs
- 'Individual Inc Files for U.S. Patent'; *PR Newswire*; Jul. 9, 1992
- Pinella et al.: 'Individual Inc. Announced Today Shipment Of A New Release Of Its Flagship'; *Businesswire*; Sep. 18, 1995; 2 pgs
- Slaby: 'SandPoint Unveils Hoover News Alert For Windows: Powerful Intelligent-Agent Based Software Monitor Provides Real-Time News for Critical Decision Making'; *Businesswire*; Oct. 30 1995; 2 pgs
- Carrig et al.: 'Ziff-Davis Electronic Information Acquires SandPoint'; *PR Newswire San Francisco*; Mar. 1 1994; 3 pgs
- Flynn et al.: 'The Daily Mc: Laying Out Tomorrow's (Electronic) News'; *PC Magazine*; Sep. 14 1993; 12(15); p. 29(1)
- Conhaim: 'This Year In Review'; *Link-Up*; Nov. Dec. 1996; 13(6); pp. 5-34+
- 'Brave New Medium'; *Economist*; Jun. 29 1996; 339(7972); pp. 15-16; UK 17-18
- Hollis et al.: 'Addressing Customers' Wireless Data Service Needs'; *Telesis*; Oct. 1995; No. 100; pp. 56-57
- Askey: 'News You've Asked To Use'; *Mediaweek*; Jun. 12 1995; 5(24); p. 20
- 'Web News With A Personal Touch: Individual Inc. Offers Ad-Backed, Customized Information Source'; *Advertising Age*; Apr. 3 1995; 66(14); p. 25
- 'A Newspaper with a Difference On The Internet'; *Direct Marketing Magazine*; Mar. 1995; 57(11); p. 11
- 'NewsHound Sniffs Out Stories'; *Open Systems Today*; Nov. 28 1994; No. 164; p. 36
- 'Mercury Center Intros NewsHound Clipping Service'; *Newsbytes Ness Network*; p. N/A
- Eng: 'Bits & Bytes'; *Business Week*; Jul. 29 1996; No. 3486; p. 68A(1)
- Volokh: 'Cheap Speech and What It Will Do'; *Yale Law Journal*; May 1995; 104(7); pp. 1805-1850
- 'The Hook Is The Lock Of The Journal'; *Business Week*; Aug. 16 1993; No. 3332; gs. 102A
- 'Online-Time Inc.' *Report On Electronic Commerce*; Nov. 12 1996; 3(23)
- 'N.Y. Times Mon. Unveiled World Wide Web Site'; *Communications Daily*; Jan. 23 1996; 16(15)
- 'Individual Inc. Sees Strong Sales Subscriber Growth'; *Electronic Information Report*; Feb. 24 1994; 16(8)
- 'MCI Acquires Equifax's Stake In FYI Online'; *Electronic Information Report*; Oct. 21 1994; 15(38)
- Kirkpatrick: 'What's Selling on the Internet'; *Kirkpatrick Enterprises Inc.*; 1996-2000; pp. 1-36
- Clark: 'Cookies'; *Xamax Consultancy Pty Ltd.*; 1996-2001; pp. 1-10
- Levine: 'Knowing Where You Browse?'; *comp society privacy*; Sep. 21 1995; pp. 1-5.
- Winer: 'DaveNet'; 1994-2000; pp. 1-6
- 'News of Nerds: Stuff that Matters'; *Slashdot*; pp. 1-118
- Yoshida: 'Group Formed To Oversee 1394 Patent Licensing'; *Systems & Software News*; Nov. 23 1999; pp. 1-3
- Tannenbaum: 'Patent Approved Patent Pending'; *Wall Street Journal Interactive Edition*; 1999
- Matyjewicz: 'The E-Tailer's Digest: Discussing Retailing Online'; *Gifts & Dec.*; 1997; pp. 1-6
- 'Time Warner's Pathfinder, Compuserve Inc. and Open Market Inc. Announce a Breakthrough for the Internet.' PR Newswire. Apr. 11 1996. Dialog Accession No. 00601438 in Dialog® File 621
- 'Sun-Sentinel Launches Interactive Real Estate Service on the Internet.' PR Newswire. Apr. 11 1996. Dialog Accession No. 00600800 in Dialog® File 621
- 'Harbinger Corporation Announces TrustedLink INP; The most comprehensive solution for easily building and maintaining a corporate Web site.' Business Wire. Mar. 25 1996. Dialog Accession No. 00594210 in Dialog® File 621
- 'HP Internet Advisor Enhanced to Make Internetwork Testing Quicker and Easier; Windows 95 Interface Helps to Isolate Network Problems.' Business Wire. Mar. 15 1996. Dialog Accession No. 00590687 in Dialog® File 621
- 'HFS and CENTURY 21 announce major initiatives in providing one-stop shopping for consumers.' Business Wire. Mar. 12 1996. Dialog Accession No. 00589418 in Dialog® File 621
- 'Starfish Software ships Earhtime 2.0; The essential world clock... as a Netscape Navigator 2.0 plug-in.' Business Wire. Mar. 12 1996. Dialog Accession No. 00589215 in Dialog® File 621
- 'Boeing projects continued airline profitability, traffic growth, rational airline orders.' PR Newswire. Mar. 6 1996. Dialog Accession No. 00586684 in Dialog® File 621
- 'UC A&I announces new Internet division to help clients reach communicate with, and market to customers online.' Business Wire. Mar. 5 1996. Dialog Accession No. 00586617 in Dialog® File 621
- 'IDG to launch Javaworld on World Wide Web.' PR Newswire. Feb. 2, 1996. Dialog Accession No. 00576930 in Dialog® File 621
- 'Online Interactive's FreeShop Online achieves one million electronic orders.' Business Wire. Feb. 7 1996. Dialog Accession No. 00575091 in Dialog® File 621
- Mohan: 'Free mail on the net forces users to trade off privacy.' Computerworld Inc. Nov. 27 1995
- 'Ariel Resources first quarter results: revenue increases 109 percent of comparable period last year.' Business Wire. Feb. 13 1997. Dialog Accession No. 00736050 in Dialog® File 621
- 'Game TV dedicated to the game player in all of us... new half-hour show.' PR Newswire. Feb. 19 1997. Dialog Accession No. 00735308 in Dialog® File 621
- 'IRG acquires Intertect.' PR Newswire. Dec. 2 1996. Dialog Accession No. 00703704 in Dialog® File 621
- 'Virtual Dorm tops [sic] into real life of students; fully wired dorm suite puts students' live on the Web for all to see.' PR Newswire. Oct. 31 1995. Dialog Accession No. 00543162 in Dialog® File 61
- 'ZD Net celebrates first year of web advertising program as top-grossing content provider with 63 April advertisers.' PR Newswire. Apr. 15 1996. Dialog Accession No. 00602035 in Dialog® File 621
- Bailey Steve et al.: 'A Cautionary Tale in the News.' *Boston Globe*. Aug. 13 1996. p. D1.
- Barna Ed.: 'Make Money on the Internet Maybe.' *Vermont Business Magazine*. vol. 24 No. 7. Jul. 1996. p. 50
- 'NewsHound Sniffs Out Stories.' *Open Systems Today*. No. 164. Nov. 28 1994. p. 36
- Lewis Peter II: 'The New York Times Introduces a Web Site.' *The New York Times*. Jan. 22, 1996. p. C7
- 'Leading Newspapers Ramp Up Interactive Advertising Developments.' *Electronic Marketplace Reports*. vol. 9 No. 4. Feb. 21 1995. p. 4
- Flaherty Francis: 'Cyberspace Swindles: Old Scams, New Twists.' *The New York Times*. Jul. 16 1994. p. 25

- Frank Howard "Telcos and Newspapers Must Cooperate to Win" *Networking Management* vol 10 No. 7, Jun 1992 p. 46
- Goff Leslie "Wash Away Those Job-Hunting Jitters: The Opportunities are Endless on the Web." *Computerworld* Oct 31 1996 p. 12
- Heckhart Christine et al "Your High-Speed Data Services Buy Comes Down to Deciding if One Service Can Do it all or if You'll Need the Best of Breed" *Network World* Jun 12 1995, p. 47
- Lexis database "Individual Launches Newspaper Direct" PR Newswire 1996
- Lexis database "FreeMark Communications and Sports Ticker enter online sports information distribution agreement: Popular sports content first of a series of innovative content offerings to be delivered free to email users" *Business Wire* 1996
- Lexis database, "Pressing E-mail's Mass-Market Advantage: Printable coupons attached to elec messages make 1-1 marketing a possibility" Mill Hollow Corporation DM News 1995
- Lexis database, "The marketers are on-lining up for you; Interactive ads: other gimmicks kick off the internet's new era" *The Washington Post* 1995
- Lexis database "Firm to offer free net mail" *Computerworld* 1995
- Lexis database, "Productview interactive to launch free e-mail service this year" IAC (SM) Newsletter Database (FM) M2 Communications M2 Presswire 1995
- Lexis database, "No shortage of online choices" Mill Hollow Corporation DM News 1995
- Phillips *Communications of the ACM* 34(7):75-83 1991
- Postel et al "Information Sciences Institute, ISI Research Report 'The ISI Experimental Multimedia Mail System'" pp 1-27 1986
- Birman et al "Exploiting Virtual Synchrony in Distributed Systems" pp. 123-138 1987
- Schroeder et al *ACM Transactions on Computer Systems* 2(1):3-23 1984
- Birman et al, *Sun Technology* pp 90-104 1989
- Forsdick et al "Initial Experience with Multimedia Documents in Diamond" pp 99-113 (ed H.T Smith) 1984
- Bulterman et al "A Structure for Transportable Dynamic Multimedia Documents, USENIX" pp 137-154 1991
- CommunicationsWeek "Interactive Age, News to the desktop. Vendors deliver personalized news to users via the Net." 3 pgs. 1996
- Sanders *Business Week* "PC Meets the TV: The Plot Thickens" pp 94-95 1996
- Prodigy promotion "Read all about the Prodigy interactive personal service, the only service of its kind that lets each member of your family personalize it to his or her interests and priorities." 6 pgs
- Ramanathan et al *Computer Networks and ISDN Systems* 26:1305-1322 1994
- Journalist User Guide 1994
- Online Interactive, Inc "miscellaneous advertising" Seattle WA
- Huang et al *Software-Practice and Experience* 24(9):785-800 1994
- Mitchell *PC World* "Two Free Programs Deliver News to Your PC" 1996
- Overton *PC World*, "PointCast 1.1: More Content for News Junkies" 1997
- "Patterns of use: exposure in paper's audiotext system" *Newspaper Research Journal (NRS)*, 16(1):48-59 1995 Dialog Accession No 02586508 in Dialog® File 484
- "Individual Inc elects Michael E. Kolowich as new CEO" News Release Sep 3 1996. Dialog Accession No 06570702 in Dialog® File 16
- Individual Inc "announces agreement to acquire FreeLoader Inc" News Release Jun 2 1996. Dialog Accession No 06306172 in Dialog® File 16
- "Individual Inc —company report" *Investext* May 1 1996 pp 1-16 Dialog Accession No 06289588 in Dialog® File 16
- "Individual Inc named breakout company of the year by the Information Industry Association" *Business Wire* Oct 23 1995 p 10231026 Dialog Accession No 05782514 in Dialog® File 16
- "Dial-up electronic media director® at low cost introduced by PR Data Systems" News Release Feb 10 1989 p 1 Dialog Accession No 02140932 in Dialog® File 16
- "Suddenly Videotex is finding an audience: Boston CitiNet... free videotex svcs & charging for advertising" *Business Week*, Oct 19 1987, pp 92-94 Dialog Accession No 01784027 in Dialog® File 16
- "MCI acquires Equifax's stake in FYI Online" *Electronic Information Report* Oct 21 1994 v.15 n.38 Dialog Accession No 02592239 in Dialog® File 636
- "Despite summer doldrums online audience claims 5.6% to 5.52 million" *Information & Interactive Services Report* Oct 7 1994 v.15 Dialog Accession No 02541536 in Dialog® File 636
- "Newsnet offers an electronic news clipping service called NewsFlash" *Marketing News*, Nov 25 1983 p 23 Dialog Accession No 00969003
- "Home information videotex services will cost subscribers \$78 mo by 1990 according to Intel Resource Development" *VideoPrint*, Aug 10 1981 p 7 Dialog Accession No 00679106 in Dialog® File 16
- "Home information videotex services are expected to be widely available... for the use of the new services" *New Release* Jul 27 1981 pp 1-16 Dialog Accession No 00659126 in Dialog® File 16
- "The Reuters Business Report" *Asia-Pacific Business Report* Mar 4 1996. Dialog Accession No. 2819020 in Dialog® File 611
- "NY Times Mno unveils World Wide Web site The New York Times on the Web (Comm Daily Notebook)" *Communications Daily*, Jan 23 1996 v.16 n.15 p 6(2) Dialog Accession No 08418048 in Dialog® File 148
- E-mail and voicemail systems (Evolution of the Paperless Office: Legal Issues Arising out of Technology in the Workplace, part 1) *Employee Relations Law Journal* Winter 1995 21 n.3 5-36 Dialog Accession No 08361735 in Dialog® File 148
- "Paley opens communications consulting firm" PR Newswire Sep 30 1983 Dialog Accession No 01906440 in Dialog® File 148
- "LaserCard™ enables quiet high quality printing on IBM system 36 and system 38 midrange computers" *News Release* Mar 6 1988
- "eWorks! Inc announces eWatch WebAlert—powerful, comprehensive, efficient web site monitoring designed for the corporate user" PR Newswire, Aug 20 1996 Dialog Accession No 00655743 in Dialog® File 621
- "TMS and Mercury mail to develop personalized internet e-mail products" PR Newswire Jun 14 1996 Dialog Accession No 00628917 in Dialog® File 621
- "Media tracking service watches cyberspace: RTV offers ewatch to monitor internet" PR Newswire Feb 20 1996 Dialog Accession No 00581154 in Dialog® File 621
- "The world's most useful online business library adds full-text archives of The New York Times" *Business Wire* Oct 31 1995 Dialog Accession No 00543679 in Dialog® File 621
- "Newsnet unveils major new enhancements" PR Newswire May 3 1995 Dialog Accession No 00516785 in Dialog® File 621
- "Newsnet to convert online system to PLS search software" PR Newswire Nov 15 1994 Dialog Accession No 00502206 in Dialog® File 621
- "Newsnet and American Business Information present business America—online" *News Release* Mar 18 1993 Dialog Accession No 00350155 in Dialog® File 621
- "Sky Computers chosen as compute processor for Broadcast Data Systems Inc" *News Release* Aug 24 1992 Dialog Accession No 00335658 in Dialog® File 621
- "Telebase launches electronic clipping services" PR Newswire May 7 1991 Dialog Accession No 00295190 in Dialog® File 621
- "McGraw-Hill news available on Dialcom" *News Release* Jul 27 1988 Dialog Accession No 00199385 in Dialog® File 621
- "Nexis® adds radio transcripts of Dougherty Daily ad broadcasts" Mar 11 1986 Dialog Accession No 00126985 in Dialog® File 621
- "Mead Data Central adds Trinet databases to Exchange™" Jan 17 1986 Dialog Accession No 00120619 in Dialog® File 621
- "Telecommunications information from Phillips Publishing available online through Newsnet" Jun 12 1985 Dialog Accession No 00117476 in Dialog® File 621
- "New custom file capability for Nexis" May 1 1985 Dialog Accession No 0017314 in Dialog® File 621
- "Information Access Company's 10 online databases to be offered through Mead Data Central services" May 1 1985 Dialog Accession No 00117313 in Dialog® File 621

- New subject group files, pricing for Nexis® May 1 1985 Dialog Accession No 00117288 in Dialog® File 621
- * Federal Reserve Board and Consumer Credit Intelligence from Business Publishers, Inc. enhances Newsnet database Jun 10 1985 Dialog Accession No 00116869 in Dialog® File 621
- * Comprehensive software directory now available on Newsnet Aug 29 1985 Dialog Accession No 00115864 in Dialog® File 621
- * Internet Current Awareness Service Searcher Magazine Database Prof., v.3 n.10 p. 8(1) Nov/Dec 1995 Dialog Accession No 00086120 in Dialog® File 256
- * News Alert to Introduce Real-Time Information Today, v.12 n.6 p.14(1) Jun 1995 Dialog Accession No 00078844 in Dialog® File 256
- * "Online clipping services deliver" PC Today v.9 n.3 p. 20(4) Mar 1995, Dialog Accession No 00075350 in Dialog® File 256
- * "Online data push" Information WEEK n.619, pp. 61-62, 66, 68 Feb 24 1997 Dialog Accession No 5529660 in Dialog® File 2
- * "Add-Frec" Information WEEK n.614 pp. 68-70 Jan 20 1997 Dialog Accession No 5498711 in Dialog® File 2
- * "PC World Online chooses Lanacom to deliver next generation "push" software to mor than half a million monthly online users" Business Wire Apr 9 1997 Dialog Accession No 00758089 in Dialog® File 621
- * "Diamond Multimedia ships the first K56FLEX modems for Macintosh computers" Business Wire Apr 8 1997 Dialog Accession No 00757610 in Dialog® File 621
- * Internet study shows push technology takes up significant bandwidth Sixth International World Wide Web Conference" Business Wire Apr 7 1997 Dialog Accession No 00757278 in Dialog® File 621
- * Diamond Multimedia ships its first 56 000 now available at retail" Business Wire Mar 24 1997 Dialog Accession No 00755527 in Dialog® File 621
- * "Florida business news service named among World's Best internet newspaper publishers by editor & publisher" Business Wire Apr 1 1997 Dialog Accession No 00753847 in Dialog® File 621
- * "Forefront launches WebWhacker 3.0— just got better" PR Newswire Mar 24, 1997 Dialog Accession No 00750722 in Dialog® File 621
- * "IFN announces instant news service: ILX to become first distributor" Business Wire Mar 18 1997 Dialog Accession No 00749159 in Dialog® File 621
- * "Scala's new CEO brings Madison Avenue and Hollywood perspective to multimedia computer television" PR Newswire Mar 17 1997 Dialog Accession No 00748917 in Dialog® File 621
- * "Simware announces alliance with Intermind to push enterprise data to users' desktops" Business Wire Mar 12 1997 Dialog Accession No 00748045 in Dialog® File 621
- * "McAfee announces PC Medic 97 and NetMedic 97; by proactively preventing common Windows 95 problems" Business Wire Mar 18 1997 Dialog Accession No 00747856 in Dialog® File 621
- * "FirstFloor software brings push technology to both businesses and consumers through deals with Microsoft and America Online" PR Newswire Mar 13, 1997 Dialog Accession No 00746694 in Dialog® File 621
- * "BackWeb to provide push technology for Microsoft Internet Explorer 4.0" PR Newswire Mar 12 1997 Dialog Accession No 00746003 in Dialog® File 621
- * "Aurum Software delivers next phase in internet push technology for sales forces" PR Newswire Mar 11 1997 Dialog Accession No 00744816 in Dialog® File 621
- * "CNET and inCommon announce delivery of NEWS.COM for desktop deliver of CNET's popular NEWS.COM content" Business Wire Mar 10 1997 Dialog Accession No 00744544 in Dialog® File 621
- * "Macromedia's Shockwave brings animation and entertainment to Internet push technology" PR Newswire Feb 25 1997 Dialog Accession No 00744301 in Dialog® File 621
- * "ClariNet & Interest!ALERT announce push technology to ClariNet's 200 ISPs and 1.5 million users" Business Wire Mar 10, 1997 Dialog Accession No 00744113 in Dialog® File 621
- * "NETdelivery announces release of I1—a unique push product for the Internet" PR Newswire Mar 1997 Dialog Accession No 00744055 in Dialog® File 621
- * "StarBurst Communications to bring true push technology to the Internet" Business Wire Mar 3 1997 Dialog Accession No 00743147 in Dialog® File 621
- * "McAfee launches VirusScan 3.0: detects 100% of viruses in latest secure computing magazine review" Business Wire Mar 3 1997, Dialog Accession No 00741540 in Dialog® File 621
- * "McAfee launches enterprise SecureCast; first to deliver ... McAfee and BackWeb pioneer new software distribution channel" Business Wire Feb 28 1997 Dialog Accession No 00740253 in Dialog® File 62
- * "Technology industry & corporate customers push Marimba to the top" PR Newswire Feb 24 1997 Dialog Accession No 00737499 in Dialog® File 621
- * "Interest!ALERT provides push technology to Island's web site visitors" Business Wire Feb 4 1997 Dialog Accession No 00733654 in Dialog® File 621
- * "NETdelivery and iCat announce strategic partnership" PR Newswire Feb 11 1997 Dialog Accession No 00733524 in Dialog® File 621
- * "Infoseek delivers personalized current news via e-mail" PR Newswire Feb 13 1997 Dialog Accession No 00731890 in Dialog® File 621
- * "TechWeb's breaking news and information now pushed techWeb channel keeps" Business Wire Feb 12 1997 Dialog Accession No 00730658 in Dialog® File 621
- * "Starfish Software announces corporate 10-user packs now available in new money-saving 10-packs" Business Wire Feb 6, 1996 Dialog Accession No 00574412 in Dialog® File 621
- * "Starfish Software Inc introduces EarthTime™ for online preview and download" Business Wire Jan 23 1996 Dialog Accession No 00569318 in Dialog® File 621
- * "Starfish Software Inc introduces EarthTime™ for online preview and download" Business Wire Jan 22 1996 Dialog Accession No 00569257 in Dialog® File 621
- * "Starfish Software Inc introduces EarthTime™ for online preview and download" Business Wire Jan 23 1996 Dialog Accession No 00567796 in Dialog® File 621
- * "Starfish Software Inc introduces EarthTime™ for online preview and download" Business Wire Jan 23 1996 Dialog Accession No 00567795 in Dialog® File 621
- * "New classified Central Bank houses rates for over 5 000 US publications" PR Newswire Jan 17 1996 Dialog Accession No 00566464 in Dialog® File 621
- * "Microsoft products now available through online interactive's atOnce software" Business Wire Jan 15 1996 Dialog Accession No 00565507 in Dialog® File 621
- * "HFS Incorporated, Century 21 Real Estate Corporation ... consumer real-estate information service" Business Wire Jan 10, 1996 Dialog Accession No 00564626 in Dialog® File 621
- * "Gartner Group announces internet-based advantage service" Business Wire Jan 2 1996 Dialog Accession No 00563106 in Dialog® File 621
- * "Adobe Systems and PicturWeb form alliance provide consumers with unique digital photo offering" Business Wire Jan 4 1996 Dialog Accession No 00561903 in Dialog® File 621
- * "CompassSearch web server search add-on search server adds value to WWW sites" Business Wire Jan 3 1996 Dialog Accession No 00560996 in Dialog® File 621
- * "Starfish Software first to leverage Sun's Java ... Sun's HotJava and Netscape's Navigator 2.0" Business Wire Nov 13 1995 Dialog Accession No 00545472 in Dialog® File 621
- * "Clickshare" one-bill universal-password access early next year" PR Newswire Sep 15 1995 Dialog Accession No 00544269 in Dialog® File 621
- * "Newsday direct available to Prodigy subscribers at no additional fee" Business Wire Oct 26 1995 Dialog Accession No 00543429 in Dialog® File 621
- * "Elektronix brings embedded-software engineers more tools for decreasing time to market" News Release Apr 7 1995 Dialog Accession No 00516600 in Dialog® File 621

- IDG books Worldwide, Inc. and Mecklermedia Corporation sign agreement to publish ten new internet virtual reality books. PR Newswire Apr 17 1995. Dialog Accession No. 00514153 in Dialog® File 621
- Online services growing fast: 32.5% increase in subscribers; Jupiter projects 5 million online by end of 1994. PR Newswire Mar 9 1994. Dialog Accession No. 00471819 in Dialog® File 621.
- "On-line software maps DB2 direction." News Release Mar 27 1991. Dialog Accession No. 00294253 in Dialog® File 621
- *ADR introduced electronic meeting scheduler—new ADR email facility crosses time zones and data lines. News Release May 31 1988. Dialog Accession No. 00192162 in Dialog® File 621
- "French firm unveils first Lotus add-in and unattended electronic mail." News Release Nov 19 1987. Dialog Accession No. 00175902 in Dialog® File 621.
- E-Tailer's Digest in Gifts & Decorative Accessories. www.etailersdigest.com Aug 1998.
- Web Programming Unleashed. Copyright 1996 by Sams net Publishing. First Edition
- Wireless: Wireless Advertising Gets Support From Consumers. file: JI 3367 -2 references/references/general/advertising.html
- Gambling Online? You Bet!. file: JI 3367 -2 references/references/general/internetgaming.html. May 3 1999
- 24/7 Media Prospectus, Aug 13 1998 pp 1-43
- Continua Reports—Sep 1995. file: JI 3367 -2 references/references/general/riddler. Sep 1995.htm
- The Journal of American Underground Computer. ISSN 1074-3111 vol. 1, issue 8. Apr 21 1995
- Targeted ads soon to pop up. Tech News. CNET.com file: JI 3367 -2 references/references started in 97) Tech News—CNET.com.htm. Feb 19 1997.
- FC 2@USC—Digital Commerce Center—Internet Advertising. wysiwyg: 2 file: JI 3367 -2 references/more Center Internet Advertising.htm
- Internet Marketing Discussion list archive: Re: Rotating sponsor banners? Nov 29 1995. file: JI 3367 -2 references/references/g Discussion Fees for Web pages etc.htm
- Internet Marketing Discussion list archive: Re: Rotating sponsor banners? Dec 5 1995. file: JI 3367 -2 references/references/general/Re Rotating sponsor banners.htm
- Internet Marketing Discussion list archive: Rotating sponsor banners? Dec 2 1995. file: JI 3367 -2 references/references/general/Rotating sponsor banners2.htm
- Internet Marketing Discussion list archive: Rotating sponsor banners? Nov 30 1995. file: JI 3367 -2 references/references/general/Rotating sponsor banners.htm
- Waxweb v2.0. Apr 3 1995. file: JI 3367 -2 references/references/general/WAXWEB v2.0.htm
- Vblue International—Web Projects. file: JI 3367 -2 references/references/International—Web Projects(96-98).htm
- PointCast unveils free news service—Tech News. CNET.com Feb 13 1996. file: JI 3367 -2 references/references/unveils free news service (Feb 1996).htm
- A component and communication model for push systems¹ presented at ESEC FSE 00—Joint 7th European Software Engineering Conference 7th ACM SIGSOFT International Symposium on the Foundations of So. Sep 6-10 1999. Toulouse France. file: JI 3367 -2 references/references/General/push systems.htm
- Bibliografia Utilizzata per la stesura della tesi. http://digilander.iol.it/massaron/biblio.html
- Robert Hobbes' Zakon Hobbes Internet Timeline v5.6 the definitive ARPAnet & Internet history. http://www.zakon.org/robert/internet/timeline
- ADMedium Newsletter Dec 1 1996. file: JI 3367 -2 references/references/ADMedium Newsletter (Dec 1996 Riddler).htm
- TreasureHunt.com Related Websites. wysiwyg: 2 file: JI 3367 -2 references/references/general/Game Websites.htm
- Net Results: Web Marketing That Works—Media: The Many Faces of Web Advertising. wysiwyg: 2 file: JI 3367 -2 references/references/in The Many Faces of Web Advertising.htm
- Microsoft Explorer Web page. 1995. Microsoft Corporation
- Hyland. IAB Advertising ABC's "Why Internet Advertising?" http://www.iab.net/advertise/content/adcontent.htm
- PC.N PointCast, Inc. PointCast 1.0—we created a splash screen explaining the software. Feb 1996.
- Zakon Hobbes' Internet Timeline. Copyright © 2002. http://www.zakon.org/robert/internet/timeline. 5 pages
- Abstracts from files in info-mac/comm/inet/web. Aug 18 1996. file: JI 3367 -2 references/references/general/emails95-96.htm
- Seidman's Online Insider for the Week Ending May 3, 1996, vol. 3 No. 18. http://www.onlineinsider.com/html/archives/050396.html.
- Digital Espresso for Aug 27 1996. http://www.mentorsoft.com/DE/jn960827.html
- Geocrawler: The Knowledge Archive from Tim Maffett Sep 4 1996. re: Chime script—[and other Chime news].
- The Scout Report—Apr 5 1996. A Publication of Internet Scout Computer Science Department, University of Wisconsin. http://scout.cs.wisc.edu/reports/1996/scout-960405.html.
- The Scout Report—May 3, 1996. A Publication of Internet Scout Computer Science Department, University of Wisconsin. file: JI 3367 -2 references/references/rail/The Scout Report—May 3 1996.htm
- Smith: The World-Wide-Web, Dec 11 1995. file: JI 3367 -2 references/references/general/web (Dec 1995).htm
- Sponsor of the Day Newsletter. Nov 1995. http://www.cris.com/~raydaly/spotlightnw.html
- Abate: Advertising Sponsorship Is Growing on the Internet; Bacon's; Jul 1 1995. News clipping
- Basch: Interchange Online Network: The Elements for Its Success Are Already in Place; Link-Up; May 1 1995. 12(3) pp 8-9; Dialog File 233; Microcomputer Abstracts: 0385575
- Bates: Electronic Clipping Service: A New Life for SDIs; Online. Jul 3 1994. 18(4); pp 43-47. 49-5; Dialog File 202; Information Science Abs: 00184574
- Bell: The Electronic Scholar's Assistant; Computer in Libraries; Oct 1990; pp 15-16; Dialog File 61; LISA: 02087937
- Brisbin: AppleSearch: The Latest Version of Apple's Information-Retrieval Tool Makes a Great Internet Clipping Service; MacUser. Jun 1 1995. 11(6) p 46. Dialog File 233; Microcomputer Abstracts: 0387029
- Cleland: A Gaggle of Web Guides Vies For Ads; Advertising Age; Apr 17 1995. News clipping.
- DataTimes Announces Major New Search Features, Price Cuts Search Services & Gateways; Database Searcher; Jun 1 1990. 6(5) pp 27-28; Dialog File 233; Microcomputer Abstracts: 0219825
- Dateline: Princeton, NJ: Financial Times and The Wall Street Journal Together On Dow Jones News Retrieval; Information Today; Apr 1 1995. 12(4); p 1. Dialog File 233; Microcomputer Abstracts: 0382372
- Derringer: Treemark Delays Release of Free E-Mail Until April; Bacon's; Feb 19 1996; pp 1, 20
- Egan: Online Clipping Services Deliver: Electronic Tools Retrieve News You Can Use; PC Today; Mar 1 1995. 9(3) pp 20-24. Dialog File 233; Microcomputer Abstracts: 0379524
- Farrow: A Route To The Internet; Open Computing; Jun 1 1994. 11(6); pp 105-107. Dialog File 233; Microcomputer Abstracts: 0351749
- Free E-mail Service Launched by FreeMark; Bacon's; Oct 1995; News clipping
- Fryxell: NewsNet Stands Alone—If This Service's 800-Plus Full-Text Industry Newsletters Can't Fill Your Research Needs, Then Nothing Can; Link-Up; Nov 1 1994. 11(6) pp 8-9; Dialog File 233; Microcomputer Abstracts: 0366803
- GE Debuts GENie in Europe, Introduces Corporate Clipping Service; Link-Up; Jun 1 1990. 7(3); pp 1-12. Dialog File 233; Microcomputer Abstracts: 0219292
- Gibson: Skills Count At Network Startup: INS Features Design Operations Specialists For Hire; PC Week; Jan 23 1995. 12(3); p 100; Dialog File 233; Microcomputer Abstract: 0373166
- Gifford et al.: Boston Community Information System 1987-1988; Massachusetts Inst of Tech. Cambridge Lab for Computer Science; May 1989. p 250; Dialog File 6; NTIS: I415753.
- Gifford et al.: Clipping Service User's Manual (Version 1.2); Massachusetts Inst Of Tech. Cambridge Lab. for Computer Science; Sep 1987. p 28. Dialog File 6; NTIS: I326877

- Goldberg et al.; U.S. Appl. No. 09/811,173 Entitled Method and System for Playing Games On a Network; filed Mar. 16, 2002
- Goldberg et al.; U.S. Appl. No. 09/830,593 Entitled "A Network Advertising System Providing Games and Services" filed Apr. 26, 2001
- Gutman "News You Need to Succeed: Electronic Newspapers Boost Your Effectiveness"; *Success* Mar. 1990 38(2) p. 12; Dialog File 2: INSPEC; 03905093
- Harter; "Distribute Coupons Via E-mail" *Bacon's*; Jan. 1996; News clipping.
- Haus; "Technology Gives Early Warning Of News Breaks"; *Public Relations Journal* May 1995; pp. 18-22
- Hawkins "Electronic Advertising On Online Information Systems"; *Online* Mar. 1994 18(2); pp. 26-39; Dialog File 15: ABI INFROM; 00836506
- Heywood "Users Get A Closer Look at Virtual Private Networks—The Latest Monitoring Tools From Service Providers Make Sure Customers Are In The Know About Their Virtual Private Networks"; *Data Communications*; Jun. 1, 1994 23(9) pp. 85-90; Dialog File 233; Microcomputer Abstracts; 0351803
- "Implementing On-Line Couponing"; *Merchandising Marketing*; 1996 News clipping
- Kramer; "Remote Possibilities: Gateways Let Remote Users Exchange Mail Via Web Browsers"; *PC Week*; Apr. 15, 1996, 13(15) 3 pages; Dialog File 233; Microcomputer Abstracts; 0420777
- LaRosa; "Marketing Slays The Downsizing Dragon"; *Information Today*; Mar. 1, 1992, 9(3) pp. 58-59; Dialog File 233; Microcomputer Abstracts; 0271126
- Lockwood "All The News That's Fit to Telecommunicate"; *The Independent Guide for Apple Computing*; Jun. 1986 4(6) pp. 93-96; Dialog File 233; Microcomputer Abstracts; 0123714
- Maddox; "More Hits For Your Web Sites"; *Vet Access*; Feb. 26, 1996; News clipping
- "Madison Avenue's Online Caps" Newspaper Article
- Makulowich; "A Net Explorer's Log"; *Online*; Nov. 1, 1996 20(6) pp. 40-42; Dialog file 233; Microcomputer Abstracts; 0441925
- Memon; "Free E-mail Is Here—But With Ads Aplenty"; *Bacon's*; Jul. 27, 1995; News clipping
- "News Alert to Introduce Real-Time Electronic Clipping Service"; *Information Today*; Jun. 1, 1995 12(6); p. 14; Dialog File 233; Microcomputer Abstracts; 0387603
- "NewsNet Newly Enhanced Newsflash"; *Information Today*; Apr. 1, 1990 7(4); p. 4; Dialog File 233; Microcomputer Abstracts; 0254449
- O'Connor; "Ads to Pay for Free E-Mail Service"; *Bacon's*; Jun. 29, 1995; News clipping
- Ojala; "Staying Alert Via Online Clipping Services"; *Online*; Sep. 1991; 15(5) pp. 80-82
- Rodriguez; "Real-Time Group Conferencing to Ship"; *News/Networking*; Oct. 10, 1994; p. 49
- Roybal et al.; "Large-Scale Demonstration Test Plan For Digface Data Acquisition System"; *Lockhead Idaho Technologies Co.*; Nov. 1994 p. 40; Dialog File 6: NTIS; 1852842
- Rudich "How Customizable Nes Services Can Help You Reduce Clutter (and Guilt)"; *Link-Up*; Sep. 1, 1996 13(5); pp. 8-9; Dialog File 233; Microcomputer Abstract; 0435810
- Schoenfeld; "Developers Plan Free E-mail"; *Online Marketplace*; Jun. 1995; 2 pgs
- "Search Services & Gateways"; *Database Searcher*; Jun. 1, 1991 7(5); p. 31-33; Dialog File 233; MicroComputer Abstracts; 0242553
- Senoo; "MultiMedia Information Broadcasting Service" *Present'99*; *IEEE* 1994 pp. 117-120
- Sherman "The Executive's NewsStand NewsNet Can Help Track Your Company's Image/Your Company, Your Clients and Your Industry"; *Link-Up*; Mar. 1, 1990 7(2) pp. 20-21; Dialog File 233; Microcomputer Abstracts; 0256018
- Skov; "An Electronic SDI Service For The Danish Chemical Industry and Research"; *Libri*; 1968; 18(3-4) pp. 204-215; Dialog File 61: LIS A; 02017349
- Soltes; "Catch The Wave" *Bacon's*; Aug. 16, 1995; News clipping
- Still; "An Agency's View of Electronic Monitoring"; *Journal of the Society of Motion Picture and Television Engineers*; Mar. 1975; 84(3); p. 172-173; Dialog File 2: INSPEC; 00782712
- Their E-mail Could Become Free Mail"; *Bacon's*; Jul. 7, 1995; News clipping
- Ubois; "New Shades of Blue: IBM's John Patrick Sees Opportunity For Big Blue All Over The Internet"; *Internet World*; Mar. 1, 1995 6(3); pp. 62-66; Dialog File 233; Microcomputer Abstracts; 0378521
- Van Kirk; "Lotus Notes Tied to Internet"; *News/Networking*; Oct. 10, 1994 p. 49
- Webb; "Telebase Launches Clipping Service U.S. May Now Be Accessed by Users Directly Through Telebase"; *Link-Up*; May 1, 1991 8(3); pp. 1 and 39; Dialog File No. 233; Microcomputer Abstracts; 0240805
- Wilder; "Free E-mail—For A Price"; *Bacon's*; Nov. 27, 1995; News clipping
- Williamson; This E-mail Message is Brought to You by ; *Advertising Age*; Apr. 17, 1995; newclipping
- Wingfield; Juno offers Free E-mail Service to End-Users"; *Bacon's*; Jul. 10, 1995; News clipping
- "Licence for Ronald A. Katz Technology Licensing I.P. Patents Obtained by HP"; *PR News*; Mar. 18, 2002; 4 pgs
- Levitz; "Tallahassee Free-Net: The Keystone of a Florida Network of Community Information Systems"; *Journal of Educational Media and Library Science*; Summer 1994; 31(4); pp. 364-373
- Yan et al.; "SIFT: A Tool for Wide-Area Information Dissemination"; *USENIX Technical Conference*; Jan. 16-20, 1995; pp. 177-186
- Millison "Games People Play"; *Daily Spectrum*; Jun. 9, 1995; 7 pgs
- "Notification of Transmittal of International Preliminary Examination Report" dated Jan. 25, 2001 for International Patent Application Serial No. PCT/US99/25131 with an international filing date of Oct. 26, 1999 and a priority date of Oct. 26, 1998
- "Written Opinion" dated Aug. 16, 2000 for International Patent Application Serial No. PCT/US99/25131 with an international filing date of Oct. 26, 1999, and a priority date of Oct. 26, 1998
- "Notification of Transmittal of the International Search Report or the Declaration" dated Jan. 31, 2000 for International Patent Application Serial No. PCT/US99/25131 with an international filing date of Oct. 26, 1999 and a priority date of Oct. 26, 1998.
- "Notification of Transmittal of International Preliminary Examination Report" dated Jan. 12, 1998 for International Patent Application Serial No. PCT/US97/00872 with an international filing date of Jan. 17, 1997 and a priority date of Jan. 19, 1996
- "Notification of Transmittal of the International Search Report or the Declaration" dated May 12, 1997 for International Patent Application Serial No. PCT/US97/00872 with an international filing date of Jan. 17, 1997 and a priority date of Jan. 19, 1996
- "The World Wide Web as a Universal Interface to Government Services"; *Center for Technology in Government University at Albany SUNY*; 1996; 136 pgs.
- "PAPA 5"; Feb. 1995; <http://www.ecc.umd.edu/~dstewart/pinball/PAPA5/guide.txt>
- "PAPA 6 1998 World Pinball Championships"; Feb. 1998; <http://www.glue.umd.edu/~dstewart/pinball/PAPA6/>
- "Archive of Previous Versions of My Home Page"; *Free Software Humor & Jokes Personal*; Version 3 mid. Oct. 1996 to present; 2 pgs
- "Cash is the Riddler's Draw"; Jun. 8, 1995; 1 pg
- "Free Software & Tips"; *Free Software Humor & Jokes Personal*; date unknown; 4 pgs
- "List of Some of Rajiv's Technology Related Work"; *Home Free Software Humor & Jokes Personal*; date unknown; 5 pgs
- Resnick; "WWW> Rotating Sponsorship Banner on WWW Pages"; *Net-Happenings Moderator*; Oct. 28, 1995; 2 pgs
- "Marketing: Ads Delivered In Real Time"; *Northern Light Technology LLC*; 1997-2002; 2 pgs
- Steinwascher "Expert Report of Dr. Kurt Steinwascher" dated Jun. 6, 2006 555 pages
- Adams "Beneficial Innovations Reponse to Electronic Arts' and Pogo Corporation's First Set of Interrogatories" Case No. CV 05-5803 JFW (JWJx) Nov. 2005 37 pages
- QuickTrack Brochure Jun. 1995 6 pages
- Koch "Maxim Sponsors blackjack on 'Net' Las Vegas Sun Oct. 2, 1996 1 page
- Roscnbloom "Letter to Julien A. Adams" Dec. 6, 2007 43 pages

Nathan Trintex Completive Analysis . Robert R. Nathan Associ-
ates Inc. Doc Page Identifier(s):PRGY 0002-0166 Winter 1987
1988

Papes. memo subject: "Shopping Application" Doc Page
Identifier(s):PRGY 0168 Nov 16 1988

Bellar "TPF Driver System" Doc Page Identifier(s):PRGY 0169-
0178 Apr 17 1985

Merritt "Trintex Keyword Architecture" Doc Page
Identifier(s):PRGY 0180-0226 Aug 11 1986

Ragusa "Commercial Analysis Report" Doc Page
Identifier(s):PRGY 0227-0239, Dec 1988

Author unknown "Reception System Functional Objectives" Doc
Page Identifier(s):PRGY 0240-0310 Jan 15 1986

Author unknown. "Reception Systems Functional Specifications"
Doc Page Identifier(s):PRGY 0311-0356 Feb 20 1986.

Beattie memo subject: "PODB Definitions" Doc Page
Identifier(s):PRGY 0358-0381 Sep 26 1986

Ashkennas et al. memo subject: "Producer System" Doc Page
Identifier(s):PRGY 0382-0394 Sep 17 1986

Author unknown memo subject: "Heading ID's" Doc Page
Identifier(s):PRGY 0395 date unknown

Author unknown. memo subject: "Network Naming Standards"
Doc Page Identifier(s):PRGY 0396-0398 date unknown

Ashkennas memo subject: "Interface Task Force Minutes" Doc
Page Identifier(s):PRGY 0399-0401 May 29 1986

Ashkennas. memo subject: "Producer 2 Batch Code" Doc Page
Identifier(s):PRGY 0402-0431 May 13 1986

Ashkennas memo subject: "Interface Task Force Minutes" Doc
Page Identifier(s):PRGY 0432-0435 Jun 2 1986

Author unknown. memo subject: "Producer Tools" Doc Page
Identifier(s):PRGY 0436-0437 Sep 22 1986

Author unknown. memo subject: "Producer System" Doc Page
Identifier(s):PRGY 0438-0439 date unknown.

Ashkennas. et al. memo subject: "Producer System Interim Plan"
Doc Page Identifier(s):PRGY 0440-0478 Sep 17 1986

Ashkennas. et al. memo subject: "Producer Systems Applications
Development Interim Transition Plan" Doc Page
Identifier(s):PRGY 0479-0502 Aug 21 1986.

Bracken memo subject: "Producer Host Envir Spec" Doc Page
Identifier(s):PRGY 0503-0589 Aug 27 1986

Author unknown. memo subject: "The Producer App Interface"
Doc Page Identifier(s):PRGY 0590-0592 date unknown

Ragusa memo subject: "Commercial Analysis Report" Doc Page
Identifier(s):PRGY 0593-0605 Dec 1988

Pooth. memo subject: "TPF Driver Demo Project" Doc Page
Identifier(s):PRGY 0606-0658 Jul 9 1985

Author unknown. memo subject: "Trintex Application Model Dev
Proposal" Doc Page Identifier(s):PRGY 0655-0690 Aug 1985

Author unknown memo subject: "Question and Answer Models"
Doc Page Identifier(s):PRGY 0691-0709 Nov 1 1985

Author unknown. memo subject: "Objectives of the Task Force"
Doc Page Identifier(s):PRGY 0710-0728 date unknown

Dawley memo subject: "Richard Merritt's Promotion" Doc Page
Identifier(s):PRGY 0729 Oct 16 1986

Author unknown memo subject: "Reception System Api Team
Reorganization" Doc Page Identifier(s):PRGY 0730 date
unknown

Sederholm memo subject: "Design Review" Doc Page
Identifier(s):PRGY 0731-0732 Feb 21 1986

Author unknown memo subject: "Publishing—Early Launch Work
Plan" Doc Page Identifier(s):PRGY 0733-0739 Nov 20 1985.

Dawley. memo subject: "App Group Model (AGM)" Doc Page
Identifier(s):PRGY 0740. Feb 6 1986

Dawley memo subject: "Routing Slip" Doc Page
Identifier(s):PRGY 0741 Jan 25 year unknown

Author unknown memo subject: "Chart" Doc Page
Identifier(s):PRGY 0742-0744 date unknown.

Author unknown memo subject: "Reception System Issues" Doc
Page Identifier(s):PRGY 0745-0779 Aug 8 1986

Author unknown memo subject: "Retail Dependencies" Doc Page
Identifier(s):PRGY 0780 date unknown

Appleman memo subject: "Issues and Actions" Doc Page
Identifier(s):PRGY 0781-0782 Jan 21 1987

Abrahams. memo subject: "Filter and Memory Problems" Doc Page
Identifier(s):PRGY 0783-0785, May 26 1987

Appleman. memo subject: "A Discussion of the State of the Trintex"
Doc Page Identifier(s):PRGY 0786-0791 May 28 1987

Dawley. memo subject: "Survey of keyword lengths" Doc Page
Identifier(s):PRGY 0792 Feb 18 1987.

Author unknown. memo subject: "API Planning Session" Doc Page
Identifier(s):PRGY 0793-0800 Aug 27 1986

Dawley. memo subject: "Your memo of Feb 3 1986" Doc Page
Identifier(s):PRGY 0801-0805, Feb 10 1986

Sederholm memo subject: "TBOL Rel" Doc Page
Identifier(s):PRGY 0806-0809, Feb 3 1986

MacAry memo subject: "AVI Storyboard Issues" Doc Page
Identifier(s):PRGY 0810-0812 Feb 17 1986

Langer memo subject: "Client Development" Doc Page
Identifier(s):PRGY 0813 Mar 5 1986

Bellar et al. memo subject: "TPF Driver System" Doc Page
Identifier(s):PRGY 0814-0822 Apr 12 1985

Author unknown. memo subject: "Trintex System Architecture"
Doc Page Identifier(s):PRGY 0823-0847 May 15 1985

Author unknown. memo subject: "Initial Product Req" Doc Page
Identifier(s):PRGY 0848-0849 Jan 8 1986

Author unknown memo subject: "Study Group Objectives" Doc
Page Identifier(s):PRGY 0850 date unknown.

Urbanski. memo subject: "Formalization of the development of
Trintex" Doc Page Identifier(s):PRGY 0851 Mar 18 1986

Author unknown. memo subject: "Driver 1" Doc Page
Identifier(s):PRGY 0852, Jun. 30 1985

Bellar memo subject: "Establishing a reliable and effective proce-
dure" Doc Page Identifier(s):PRGY 0853-0862 Aug 28 1985.

Appleman "APPL CORE" Doc Page Identifier(s):PRGY 0863-
0899 Mar 18 1988

Author unknown. "Table of Contents" Doc Page
Identifier(s):PRGY 0901-0953 date unknown

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0954-0955 Apr 9, year unknown

Author unknown "Notes" Doc Page Identifier(s):PRGY 0956 Mar
29 1985

Author unknown "Chart" Doc Page Identifier(s):PRGY 0957 Apr
12 1985

Author unknown. "Notes" Doc Page Identifier(s):PRGY 0958-
0960 Mar 29 1985

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0961 Apr 2 1985.

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0962 Apr 3 1985.

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0963 Apr 8 1985.

Author unknown "Task Force Notes" Doc Page Identifier(s):PRGY
0964-0966, Apr 3 1985

Author unknown. "Notes" Doc Page Identifier(s):PRGY 0967-
0968 Apr 4 1985.

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0969 Apr 8 1985.

Author unknown. "Task Force Notes" Doc Page Identifier(s):PRGY
0970 Apr 3 1985

Author unknown "Trintex Architecture" Doc Page
Identifier(s):PRGY 0971-0975, Mar 31 1985

Author unknown "General Ground Rules Notes" Doc Page
Identifier(s):PRGY 0976-0988 date unknown

Memo subject: "Trintex System Proposal" Doc Page
Identifier(s):PRGY 0989 date unknown

Author unknown memo subject: "Data collection Requirements
Notes" Doc Page Identifier(s):PRGY 0990 date unknown

Author unknown. memo subject: "Business System Interface Notes"
Doc Page Identifier(s):PRGY 0991 Mar 15 1985

Author unknown. memo subject: "TPF2 Functions" Doc Page
Identifier(s):PRGY 0992-1000 Mar 26 1985

Author unknown. memo subject: "Mission Notes" Doc Page
Identifier(s):PRGY 1001-1014 date unknown

Schwartz. memo subject: "Delivery System Launch Obj" Doc Page
Identifier(s):PRGY 1015-1038 Mar 6 1985

- Author unknown, memo subject: "Reception Subsystems Notes" Doc Page Identifier(s):PRGY 1039 Apr 2 1985
- Author unknown, memo subject: "High Level Function Placement" Doc Page Identifier(s):PRGY 1040-1047 Mar 26 1985
- Author unknown, memo subject: "Reception Subsystems Notes" Doc Page Identifier(s):PRGY 1048, Apr 2 1985
- Author unknown, memo subject: "Keywords Notes" Doc Page Identifier(s):PRGY 1049-1052 Mar 22 1985
- Author unknown, memo subject: "Matrix" Doc Page Identifier(s):PRGY 1053-1067 date unknown
- Wolf, memo subject: "Notes" Doc Page Identifier(s):PRGY 1068, Mar 26 1985
- Author unknown, memo subject: "High Level Function Placement" Doc Page Identifier(s):PRGY 1069-1076 Mar 26, 1985
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1077-1078 Mar 19 1985
- Sweeney, memo subject: "Notes" Doc Page Identifier(s):PRGY 1079 Mar 19 year unknown
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1080-1081 Mar 19 1985
- Author unknown, memo subject: "Meeting Today" Doc Page Identifier(s):PRGY 1082 Mar 23 1985
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1083 Mar 19 1985
- Author unknown, memo subject: "Trintex Architecture Group Work Plan" Doc Page Identifier(s):PRGY 1084-1085, date unknown.
- Author unknown, memo subject: "Task Desc Notes" Doc Page Identifier(s):PRGY 1086 Mar 22 year unknown
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1087 Mar 15 1985
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1088 Mar 14 1985
- Author unknown, memo subject: "Application Layer Notes" Doc Page Identifier(s):PRGY 1089-1091 date unknown
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1092-1094, date unknown
- Author unknown, memo subject: "Function Placement Notes" Doc Page Identifier(s):PRGY 1095 date unknown
- Author unknown, memo subject: "Arch Group Notes" Doc Page Identifier(s):PRGY 1096-1097 Mar 20, 1985
- Author unknown, memo subject: "Arch Overview Notes" Doc Page Identifier(s):PRGY 1098 Mar 14, 1985
- Author unknown, memo subject: "Application Program Interface" Doc Page Identifier(s):PRGY 1100, date unknown
- Author unknown, memo subject: "Object for TTS_MNU01" Doc Page Identifier(s):PRGY 1101 Feb 17 1986
- Author unknown, memo subject: "Notes" Doc Page Identifier(s):PRGY 1102 date unknown
- Author unknown, memo subject: "Trintex" Doc Page Identifier(s):PRGY 1103-1113 date unknown
- Heilbrunn, memo subject: "Production Description" Doc Page Identifier(s):PRGY 1114-1169 Mar 31 1986
- Author unknown, memo subject: "Founding and Charter Member Satisfaction Survey" Doc Page Identifier(s):PRGY 1171-1211 Sep 1988
- Author unknown, memo subject: "Strategy Conference" Doc Page Identifier(s):PRGY 1212-1217, 1993
- Fidelhart "Ten Commandments Revisited", PC Week Doc Page Identifier(s):PRGY 1218-1219, May 30 1988
- Author unknown, memo subject: "Qualitative Analysis: Prodigy Interactive Personal Services: "The Market" Focus Groups" Elick and Lavidge inc Doc Page Identifier(s):PRGY 1220-1241 Oct 1988
- Day, memo subject: "September Executive Measurements Package" Doc Page Identifier(s):PRGY 1242-1244 Oct 21, 1988
- "Targeting Consumer Influentials" The Public Pulse Doc Page Identifier(s):PRGY 1245-1248 Mar 1988, 4 pages
- "Information Gateways - New Life for Videotex?" Institute For The Future Doc Page Identifier(s):PRGY 1249, May 1988 1 page
- "E-Mail Vendors", O'Dwyer's PR Services Report Doc Page Identifier(s):PRGY 1250-1251 Jun 1988
- Carroll "IBM Unveils Midrange Computer Inc In Bid To Reverse Slide in Market Share" The Wall Street Journal Doc Page Identifier(s):PRGY 1252 Jun 22, 1988
- "Captain lacks popularity" Japan Economic Journal Doc Page Identifier(s):PRGY 1253, Mar 29, 1986
- Mochizuki et al. "Digital Videotex System" Review of the Electrical Communication Laboratories vol. 32 No 6 1984, 1044-1050 Doc Page Identifier(s):PRGY 1254-1260
- Nakano et al. "Digital Videotex Communication Processing Equipment" Review of the Electrical Communication Laboratories vol 32, No 6 1984 1051-1057 Doc Page Identifier(s):PRGY 1261-1267
- Ito "Captain Commercial Service Starts Now" JIR Doc Page Identifier(s):PRGY 1268-1276, Jan 1985 pp 17-25.
- Kobayashi et al. "Videotex Terminals for the INS Model System" Review of the Electrical Communication Laboratories, vol. 33 No 2 1985, p. 277-283 Doc Page Identifier(s):PRGY 1277-1283
- Hecht "What You Can Get Online" Computers & Electronics Doc Page Identifier(s):PRGY 1284-1297 Feb 1985
- Leichtman "Making Online Databases Useful", Computers & Electronics Doc Page Identifier(s):PRGY 1289-1291 Feb 1985
- "Guide to Online Information Services", Computers & Electronics Doc Page Identifier(s):PRGY 1292-1294 Feb 1985
- "Database Aids", Computers & Electronics Doc Page Identifier(s):PRGY 1295, Feb 1985
- Weis, memo subject: "Prodigy Services Company June 6 comments" Doc Page Identifier(s):PRGY 1298-1326 Jun. 7, 1988.
- Author unknown, "The Prodigy Service Background" Doc Page Identifier(s):PRGY 1327-1329, date unknown
- Author unknown, memo subject: "Prodigy Services Company" Doc Page Identifier(s):PRGY 1330, date unknown
- "Final Report Prodigy Kroger Grocery Shopping Service" Elick and Lavidge inc Doc Page Identifier(s):PRGY 1331-1356 Sep 1988
- Author unknown, memo subject: "Trintex Questions and Answers" Doc Page Identifier(s):PRGY 1357-1371, date unknown
- Author unknown, memo subject: "Reception System Technical Review" Doc Page Identifier(s):PRGY 1372-1427, date unknown
- Horowitz "TIPEO4010" Doc Page Identifier(s):PRGY 1428 Jun 9, 1986.
- Horowitz "ILCR0000 DEF" Doc Page Identifier(s):PRGY 1429 Apr 16, 1986.
- Horowitz "ILPI4010" Doc Page Identifier(s):PRGY 1430 Jun 17 1986
- Horowitz "ILCP0040" Doc Page Identifier(s):PRGY 1431 Apr 16, 1986
- Horowitz "TI CR0040" Doc Page Identifier(s):PRGY 1432 Jun 17 1986
- Author unknown, "Reception System Technical Review" Doc Page Identifier(s):PRGY 1433-1441, date unknown
- Author unknown, "Reception System" Doc Page Identifier(s):PRGY 1442-1466, Jun 18, 1986
- Author unknown, "Membership Marketing Agenda" Doc Page Identifier(s):PRGY 1468-1516, 1988
- Mandel "Interactive Consumer Information Services" SRI International Doc Page Identifier(s):PRGY 1517-1554 1988
- Aumente "The New Wave Of Computer Information Services", Washington Journalism Review Doc Page Identifier(s):PRGY 1555-1558, Nov. 1988.
- Barnash "No Major Cuts Expected in Advertising by Sears", New York Times Doc Page Identifier(s):PRGY 1559 Nov 10 1988
- "Virus fears stalk companies" LISA Today Doc Page Identifier(s):PRGY 1560-1561 Nov 10 1988
- "The Prodigy Approach To The Mass Market" The Seelinger Letter Doc Page Identifier(s):PRGY 1562-1574 Aug 25 1988
- Amparano et al. "Phone Firms Battle Cable-TV Operators Over Providing Fiber-Optic Home Links" The Wall Street Journal Doc Page Identifier(s):PRGY 1575-1576, Sep 9, 1988
- "Joe Anonini Shakes Up Kmart" Gallagher Report Doc Page Identifier(s):PRGY 1577 Aug 8 1988
- Mangum "Business cable to launch show on PCs", Gannett Westchester Newspapers Doc Page Identifier(s):PRGY 1578 Sep 5 1988

- Miller et al. "New Big Blue Akers s Drive to Mend IBM Is Shaking Up Its Vaunted Traditions" The Wall Street Journal Doc Page Identifier(s): PRGY 1579-1581, Nov 11 1988
- Author unknown. "Retail Sales Training Kit" Doc Page Identifier(s): PRGY 1582-1599, date unknown
- Author unknown. "Trintex Assistant Design Document" Doc Page Identifier(s): PRGY 1602-1604 date unknown
- Galambos, memo subject: "Human Factors Driver 7 I Report" Doc Page Identifier(s): PRGY 1605-1630, Jun 26, 1987
- Merritt memo subject: "Your Memo dated Feb 26" Doc Page Identifier(s): PRGY 1631-1632 date unknown.
- Author unknown "Charts" Doc Page Identifier(s): PRGY 1633-1637 Apr 4 1986
- Tummolo, memo subject: "leave zip Phase I Implementation Design" Doc Page Identifier(s): PRGY 1638-1640 Feb 23 1987
- Tummolo, memo subject: "leave zip Phase I Implementation Design" Doc Page Identifier(s): PRGY 1641-1643 Feb 23 1987
- Tummolo, memo subject: "leave zip Phase I Detail Design" Doc Page Identifier(s): PRGY 1645-1646 Feb 23 1987
- Author unknown. "Look Zip Design Considerations" Doc Page Identifier(s): PRGY 1647-1654 Feb 3 1987
- Gitlitz, memo subject: "Content Architecture" Doc Page Identifier(s): PRGY 1655-1659, Mar. 9 1987
- Author unknown. "Notes" Doc Page Identifier(s): PRGY 1660-1662 Feb 10 1987
- Briney, memo subject: "Trintex Assistant Feedback" Doc Page Identifier(s): PRGY 1663 Feb 22 1987.
- Author unknown "Viewpath PS Development" Doc Page Identifier(s): PRGY 1664-1682 date unknown
- Merritt memo subject "Trintex assistant Project Plan" Doc Page Identifier(s): PRGY 1683-1686, Feb 18 1987
- Galambos, memo subject: "Guide" Doc Page Identifier(s): PRGY 1687-1689 Feb 19 1987.
- Author unknown "Memo" Doc Page Identifier(s): PRGY 1690 date unknown
- Goldes memo subject: "Single Key Help Access" Doc Page Identifier(s): PRGY 1691-1692 Feb 3, 1987
- MacAry memo subject: "Perf. Plan for Richard Merritt" Doc Page Identifier(s): PRGY 1693-1694, Jan 28 1987
- Rothman memo subject: "Zip" Doc Page Identifier(s): PRGY 1695-1696 Jan 29 1987.
- Author unknown "Where Questions" Doc Page Identifier(s): PRGY 1697-1699 date unknown
- Heilbrunn memo subject: "Image Capture" Doc Page Identifier(s): PRGY 1700-1702 Mar 5, 1987
- Mueller memo subject: "Trintex Assistant Hartford" Doc Page Identifier(s): PRGY 1703, Feb 9 1987
- Merritt memo subject: "Trintex Assistant Project Plan" Doc Page Identifier(s): PRGY 1704-1707, Feb 18 1987
- Galambos memo subject: "Trintex Assistant Application Coding" Doc Page Identifier(s) PRGY 1708, Jan 20, 1987
- Author Unknown memo subject: "Trintex Assistant Capabilities" Doc Page Identifier(s): PRGY 1709-1711, Aug 15 1987.
- Merritt memo subject: "Trintex Assistant Functions" Doc Page Identifier(s) PRGY 1712-1713, Aug 15 1987.
- Galambos memo subject: "Copy File for Hartford" Doc Page Identifier(s): PRGY 1714-1715 Jan 26 1987
- Starr Software Inc. "Invoice to Computer City" Doc Page Identifier(s): PRGY 1716-1717 Jan 30 1987
- Author unknown "Trintex Assistant Status" Doc Page Identifier(s): PRGY 1718-1727 Jan 13 1987
- Matyekas, "Trintex Assistant Reception System Implementation Issues" Doc Page Identifier(s): PRGY 1728-1731 Mar. 20 1987
- Matyekas, "Simplified Process Flow of the Keyboard Mgr." Doc Page Identifier(s): PRGY 1732-1741 Mar 20 1987.
- Author unknown "Menu" Doc Page Identifier(s): PRGY 1742 date unknow
- Heilbrunn memo subject: "Trintex Assistant Versioning" Doc Page Identifier(s): PRGY 1743, Nov 23 1987.
- Galambos, memo subject: "Decoder Macros for Physical Key Names" Doc Page Identifier(s): PRGY 1744-1745 May 6 1987
- Heilbrunn, memo subject: "Comments" Doc Page Identifier(s): PRGY 1746 Oct 28 1987
- Author unknown. "TTX Assistant" Doc Page Identifier(s): PRGY 1747, Oct 10 1987
- Author unknown, "Out of Plan in Order of Priority" Doc Page Identifier(s): PRGY 1748, Oct 7 1987
- Galambos memo subject: "Your Trintex Assistant Memo of Feb 2 1987" Doc Page Identifier(s): PRGY 1749-1750, Feb 19, 1987
- Author unknown, "Viewpath Programs(Driver 5)" Doc Page Identifier(s): PRGY 1754, Jul 16 1986
- Tummolo "Viewcopy", Doc Page Identifier(s): PRGY 1755 Jul 16 1986
- Tummolo "ViewP1" Doc Page Identifier(s) PRGY 1756 Jul 15 1986
- Tummolo "ViewP2" Doc Page Identifier(s): PRGY 1757-1759 Jul 14, 1986
- Tummolo "ViewP3" Doc Page Identifier(s): PRGY 1760 Jul 14 1986
- Tummolo "ViewP4" Doc Page Identifier(s): PRGY 1761 Jul 15 1986
- Tummolo, "ViewP5" Doc Page Identifier(s): PRGY 1762-1763 Jul 16 1986
- Tummolo "ViewP6" Doc Page Identifier(s): PRGY 1764-1765 Jul 16 1986
- Tummolo "ViewP8" Doc Page Identifier(s): PRGY 1766 Jul 16 1986.
- Merritt memo subject: "Enhancements" Doc Page Identifier(s): PRGY 1767-1768 Sep 9, 1987
- Merritt memo subject: "Trintex Assistant Project Plan" Doc Page Identifier(s): PRGY 1769-1773 Feb 18, 1987.
- Leibman memo subject: memo (title unknown) Doc Page Identifier(s): PRGY 1774 date unknown
- Author unknown, memo subject "Jumpwords" Doc Page Identifier(s): PRGY 1775-1779 date unknown
- Goldes memo subject: "Design Spec: Help Hub" Doc Page Identifier(s): PRGY 1780-1791 Apr 22 1987
- Author unknown memo subject: "Trintex Code Promotion" Doc Page Identifier(s): PRGY 1792-1793, Apr 15, 1987
- Author unknown memo subject: "Browse-D7 Hold Ibolu" Doc Page Identifier(s): PRGY 1794 Jun 5 1987
- Galambos, memo subject: "Copy File for Hartford" Doc Page Identifier(s): PRGY 1795-1796 Jan 26 1987
- Briney, memo subject: "Generic Copy Approach" Doc Page Identifier(s): PRGY 1797-1799, Feb 22 1987
- Galambos memo subject: "13 byte jumpwords" Doc Page Identifier(s): PRGY 1800, Feb 25 1987
- Heyman memo subject: "Keywords Jumpwords" Doc Page Identifier(s): PRGY 1801-1805 Mar 5 1987
- Galambos memo subject: "User Profiles" Doc Page Identifier(s): PRGY 1806-1812, Feb 6 1987
- Goldes memo subject: "Help Guidelines" Doc Page Identifier(s): PRGY 1813-1841 Apr 7 1987
- Galambos memo subject: "Decoder Macros for Phys. Key names" Doc Page Identifier(s): PRGY 1842-1843 May 6 1987
- Author unknown, "Trintex Assist" Doc Page Identifier(s): PRGY 1844-1851 Apr 27 1987
- Author unknown memo subject: "Guide" Doc Page Identifier(s): PRGY 1852-1893 Feb 19 1987
- Tummolo, memo subject: "Leave zip external dependencies" Doc Page Identifier(s): PRGY 1894-1895 Apr 2, 1987
- Galambos memo subject: "Your Trintex Assit memo of Feb 2 1987" Doc Page Identifier(s): PRGY 1896-1897 Feb 19 1987
- Beall, memo subject: "Trintex Assist" Doc Page Identifier(s): PRGY 1898-1899 Feb 2 1987
- Author unknown memo subject: "Hartford Development Plan" Doc Page Identifier(s): PRGY 1900-1902 Date unknown
- Gitlitz, memo subject: "Content Architecture" Doc Page Identifier(s): PRGY 1903-1905 Feb 27 1987
- Tummolo memo subject: "Menu Issues" Doc Page Identifier(s): PRGY 1906 Oct 16 1986
- Briney, memo subject: "Generic Copy Approach" Doc Page Identifier(s): PRGY 1907-1909 Feb 22 1987
- Author unknown memo subject: "Notes" Doc Page Identifier(s): PRGY 1910 Date unknown

Carcy memo subject: 'Guide Maps' Doc Page Identifier(s):PRGY 1911, Feb 26 1987	Merritt memo subject: Application Development Doc Page Identifier(s):PRGY 2026-2027 Mar 14, 1986.
Gillitz memo subject: Holding Frame Doc Page Identifier(s):PRGY 1912 Feb 20, 1987	Merritt (Notes from Richard) memo subject: 'For the API Support Group' Doc Page Identifier(s):PRGY 2028-2029 date unknown
Galambos memo subject: 'File' Doc Page Identifier(s):PRGY 1913 Feb 23 1987	Author unknown memo subject: '3 Topics' Doc Page Identifier(s):PRGY 2039-2033 3-4?
Galambos memo subject: Copy File for Hartford Doc Page Identifier(s):PRGY 1914, Feb. 23 1987	Merritt memo subject: "Application programmers reference manual" Doc Page Identifier(s):PRGY 2034-2037 Jul 23 1986
Galambos memo subject: "Jumpwords and Architecture" Doc Page Identifier(s):PRGY 1915, Feb 5 1987	Merritt memo subject: "API Support Group Status" Doc Page Identifier(s):PRGY 2038-2044 Jul 23 1986
Iummolo memo subject: "ITX Assist" Doc Page Identifier(s):PRGY 1916 Feb 17 1987	Author unknown memo subject: "Notes for the Month of August" Doc Page Identifier(s):PRGY 2045-2046 date unknown
Iummolo memo subject: "ITX Assist" Doc Page Identifier(s):PRGY 1917 Feb 17 1987	Author unknown memo subject: "API Planning Session" Doc Page Identifier(s):PRGY 2047-2048, Mar 19 1986
Author unknown memo subject: "Screen Description" Doc Page Identifier(s):PRGY 1918-1926 Date unknown	Merritt memo subject: "Tasks for the API coordination Group" Doc Page Identifier(s):PRGY 2049-2054 Mar 25 1986
Dorst memo subject: "Service Date" Doc Page Identifier(s):PRGY 1927 Dec 8 1988	Author unknown "API Cordiation support Group" Doc Page Identifier(s):PRGY 2055-2060 date unknown.
Author unknown memo subject: Proposal for Richard Merritt Doc Page Identifier(s):PRGY 1928-1929 Date unknown	Author unknown "Standard Form application Documentation" Doc Page Identifier(s):PRGY 2061-2083, date unknown
Author unknown memo subject: "Notes" Doc Page Identifier(s):PRGY 1930 Date unknown.	Author unknown "Product Design System Flow" Doc Page Identifier(s):PRGY 2084-2086, date unknown
Merritt "Quick Quotes" Doc Page Identifier(s):PRGY 1931-1934 Mar 30 1988	Author unknown Product Design Panels Doc Page Identifier(s):PRGY 2087-2097 Jun 16, 1986.
Author unknown memo subject: "Quick Quotes" Doc Page Identifier(s):PRGY 1935 Mar 22, 1988	Author unknown Discussion Draft Notes" Doc Page Identifier(s):PRGY 2098-2099 May 29 1986
Author unknown memo subject: "PCS2—Network Simulator" Doc Page Identifier(s):PRGY 1936 Mar 29 1988	Urbanski memo subject: "Nonprogramming environment for application development" Doc Page Identifier(s):PRGY 2100-2102 Jun 27 1986
Author unknown memo subject: "Quick Quotes" Doc Page Identifier(s):PRGY 1937-1941 Mar 30, 1988.	Dawley "GDA ADW Dawley Presentation" Doc Page Identifier(s):PRGY 2103-2116 Jun 27 1986
Author unknown memo subject: "Quick Quotes" Doc Page Identifier(s):PRGY 1942-1945 Mar 22, 1988	Harnsc memo subject: "PS Development" Doc Page Identifier(s):PRGY 2117-2118 Feb 2, 1986
Author unknown memo subject: "Current Stocks" Doc Page Identifier(s):PRGY 1946-1952 Mar 30 1988	Author unknown memo subject: "Delivery Plan Highlights" Doc Page Identifier(s):PRGY 2119-2120, Jan 17 1985
Author unknown memo subject: "Notes on Dow Jones" Doc Page Identifier(s):PRGY 1953 Mar 15, 1988	Author unknown memo subject: "Trintex Launch Level" Doc Page Identifier(s):PRGY 2121-2150, Jan. 27 1986
Author unknown API Support Group Weekly Bulletin Doc Page Identifier(s):PRGY 1954 Apr 10, 1987.	Author unknown memo subject: "Trintex Launch Level" Doc Page Identifier(s):PRGY 2153-2312 Jan 27 1986.
Author unknown memo subject: "API Support Group Notes" Doc Page Identifier(s):PRGY 1955-1964, Apr 7 1987	Author unknown "4.0 Functional Additions" Doc Page Identifier(s):PRGY 2200-2299, date unknown
Author unknown memo subject: "API Planning Session" Doc Page Identifier(s):PRGY 1965-1980 Aug 26, 1987	Author unknown "Prodigy We're Bringing The Future Home" Doc Page Identifier(s):PRGY 2313-2322 date unknown
Author unknown memo subject: "API Planning Session" Doc Page Identifier(s):PRGY 1981-1985 Aug 27, 1987	Author unknown memo subject: "Trintex Background" Doc Page Identifier(s):PRGY 2323-2326, date unknown
Merritt memo subject: "Application Development" Doc Page Identifier(s):PRGY 1986-1987 Mar 14 1986	Author unknown memo subject: "Prod. System-Host Design" Doc Page Identifier(s):PRGY 2328-2349, Jan 12 1987
Author unknown "Dialogue with Hewitt" Doc Page Identifier(s):PRGY 1988 Nov 1985	Author unknown memo subject: "Producer Object assembly" Doc Page Identifier(s):PRGY 2350-2380, Jan 29 1987
Stewart "Notes" Doc Page Identifier(s):PRGY 1989-1990 Apr 19 1985	Author unknown memo subject: "Producer Workstation" Doc Page Identifier(s):PRGY 2381-2390 Feb 17 1987
Author unknown memo subject: "Assumptions about object+traffic" Doc Page Identifier(s):PRGY 1991-1997 4 18?	Author unknown "TPW System overview" Doc Page Identifier(s):PRGY 2391-2395 Feb 19, 1987
Author unknown memo subject: Incompletely determined objects" Doc Page Identifier(s):PRGY 1998-1999 4/19?	Author unknown "Producer A Object ID Assignment" Doc Page Identifier(s):PRGY 2396-2401 Apr 8, 1987.
Author unknown memo subject: Unique Keys" Doc Page Identifier(s):PRGY 2000-2001 4 19 ?	Author unknown "Consolidated Functional Requirements" Doc Page Identifier(s):PRGY 2401-2459 Apr 5 1985
Author unknown memo subject: Applications" Doc Page Identifier(s):PRGY 2002-2005 4 18 ?	Author unknown memo subject: "TPW—Producer A" Doc Page Identifier(s):PRGY 2460-2462, Mar 4, 1987
Merritt memo subject: "Notes on TPF Classes" Doc Page Identifier(s):PRGY 2006-2008, May 10 1985	Author unknown memo subject: "QC Requirements (Linkage)" Doc Page Identifier(s):PRGY 2463-2471, Mar 6 1987
Author unknown memo subject: "Notes to Norm" Doc Page Identifier(s):PRGY 2009-2010 9 18 ?	Author unknown memo subject: "ParmScript Specification" Doc Page Identifier(s):PRGY 2472-2480 May 1 1987.
Esposito memo subject: "TPF Task Force Results" Doc Page Identifier(s):PRGY 2011-2012 Mar 27 1985	Whited et al. "Up Download Supporting New Naming Conventions" Doc Page Identifier(s):PRGY 2481-2491 May 12 1987
Maggie memo subject: "System Dev Training Program" Doc Page Identifier(s):PRGY 2013-2014, Mar 11 1986.	Author unknown memo subject: "Producer System Data Flow" Doc Page Identifier(s):PRGY 2492 Jan 27 1987
Merritt memo subject: "UAL Next Week" Doc Page Identifier(s):PRGY 2015-2016 Mar 26 1986	Dawley memo subject: "Producer System Format" Doc Page Identifier(s):PRGY 2493-2499 Apr 24 1987
Hewitt "Letter to United Airlines (Kotar)" Doc Page Identifier(s):PRGY 2017-2018, Dec 18 1985.	Author unknown memo subject: "Notes" Doc Page Identifier(s):PRGY 2500-2508 date unknown
Merritt memo subject: "Achievement Ward" Doc Page Identifier(s):PRGY 2019-2025 Feb 27 1986	Dedrick memo subject: "A Language for Describing IBOL" Doc Page Identifier(s):PRGY 2509-2513 Feb 24 1987

- Author unknown, memo subject: "The Trintex Producer Workstation" Doc Page Identifier(s):PRGY 2514-2516 Jan 21 1987.
- Author unknown "The Bulletin" Doc Page Identifier(s):PRGY 2517 date unknown
- Lyons, memo subject: "API Support Group Notes" Doc Page Identifier(s):PRGY 2518-2519, date unknown
- Author unknown, memo subject: "Trintex External Provider Activities" Doc Page Identifier(s):PRGY 2520-2526 Feb 8 1988
- Author unknown, memo subject: "External Provider Environment" Doc Page Identifier(s):PRGY 2527 May 1988
- Author unknown, "EPAPO Project Status Update" Doc Page Identifier(s):PRGY 2528-2530 May 18 1988
- Author unknown, Prodigy Services Company Doc Page Identifier(s):PRGY 2531-2567 Jun 15 1989.
- Heilbrunn, memo subject: "Trintex Product Descriptor" Doc Page Identifier(s):PRGY 2568-2614 Feb 23 1987
- Author unknown "CPEP looking to Prodigy for the Latest Information", Science Museum of Connecticut. Doc Page Identifier(s):PRGY 2616 Nov Dec 1988
- Markham, "From Fantasy to fact at the end of a fingertip" Times London, England Doc Page Identifier(s):PRGY 2617, Nov 22 1988
- Haglund "Detroiters will get new buying power in their PCs next year" Sunday Chronicle Muskegon, Michigan Doc Page Identifier(s):PRGY 2618, Nov 27 1988
- Author unknown, "Prodigy making another attempt at videotext services" Knight-Ridder Newspaper Service Doc Page Identifier(s):PRGY 2619-2620, Nov 20, 1988
- Sims "New Atlantic Cable Makes More Calls Possible" The New York Times Doc Page Identifier(s):PRGY 2620-2621 Dec 14 1988
- Markoff "IBM to Sell Rolm to Siemens" The New York Times Doc Page Identifier(s):PRGY 2622-2623 Dec 14 1988
- Author unknown, "Banking from signup to sign on", Sunday Capital Annapolis, Mo Doc Page Identifier(s):PRGY 2624 Nov 20 1988
- Author unknown "GTE Corp Makes Waves in Videotext Market" Gallagher Report NY NY Doc Page Identifier(s):PRGY 2624 Nov 21, 1988
- Killcitt, "French Minitel Services Coming to America" Communications Week. Doc Page Identifier(s):PRGY 2625 Nov 7 1988
- Horwitz, "Freed Bells ready network services", Computerworld Doc Page Identifier(s):PRGY 2626 Dec 12 1988
- Author unknown, "Bell Atlantic IBM Get Directory System Pact for New Zealand" Wall Street Journal Doc Page Identifier(s):PRGY 2627 Dec 15 1988.
- Author unknown "Fewer Tots Expected by the Year 2000", Wall Street Journal Doc Page Identifier(s) PRGY 2627 Dec 15 1988
- Fisher, "Decpr Into The Well", Microtimes Doc Page Identifier(s):PRGY 2628-2630 Mid-Dec 1988
- Hudson et al "IBM to extend antitrust accord with I.C. commission Beyond '90" The Wall Street Journal Doc Page Identifier(s):PRGY 2631 Dec 15 1988
- Andrews "Uses Grow for Video Alterations" The New York Times Doc Page Identifier(s):PRGY 2632-2633 Dec 15, 1988
- Author unknown "The CPC Newsletter" Doc Page Identifier(s):PRGY 2634-2641 Dec 1988
- Author unknown, "Prodigy Services Company" Doc Page Identifier(s) PRGY 2642, date unknown
- Kleiner "Prodigy: The Future On Line?", The San Francisco Guardian Doc Page Identifier(s):PRGY 2643-2647 Nov 30 1988
- Author unknown "Vanguard draws investors" USA Today Doc Page Identifier(s):PRGY 2648, Dec 6 1988
- Henderson, "Funds offer strong safe asset growth" USA Today Doc Page Identifier(s):PRGY 2649 Dec 6 1988.
- Miller, "IBM's PC Chief, William Low, Moves to Xerox", The Wall Street Journal Doc Page Identifier(s):PRGY 2650, Dec 6, 1988
- Feinberg "Bust or Boom?", Adweek's Marketing Week Doc Page Identifier(s):PRGY 2651-2656 Dec 5 1988
- Essex "Prodigy: An On-Line Service for the Masses" PC Resource Doc Page Identifier(s):PRGY 2657-2658 Jan 1989
- Rebello "Super chip puts mainframe on desktop" USA Today Doc Page Identifier(s):PRGY 2659 Dec 9 1988
- Author unknown, "U.S. computer firms counting on Europe" USA Today Doc Page Identifier(s):PRGY 2660 Dec 9 1988
- Miller et al "IBM to Sell Part Of Rolm's Line, Investors Told" The Wall Street Journal Doc Page Identifier(s):PRGY 2660 Dec 9 1988
- Author unknown "Prodigy Advertisement: Women's Wear Daily" Doc Page Identifier(s):PRGY 2661-2662 Dec 5 1988
- Author unknown "Industry firms join computer listing service" Photo Marketing Jackson MI Doc Page Identifier(s):PRGY 2663 Nov. 1988.
- Haglund, "IBM, Sears gamble on videotex system", Nationally Syndicated Article Doc Page Identifier(s):PRGY 2663, Nov 30, 1988
- Author unknown, "Groceries Delivered By Computer" the Alpharetta Revue Doc Page Identifier(s):PRGY 2664 Dec 1 1988
- Author unknown "BellSouth A New Service For Cable TV" The Wall Street Journal Doc Page Identifier(s):PRGY 2664 Dec 7 1988
- Miller, "IBM Signals New PC-Mainframe Strategy", The Wall Street Journal Doc Page Identifier(s) PRGY 2665 Dec 7 1988
- Menninger "Pioneering on-line service hangs on" Greater Sacramento Business Journal Sacramento CA Doc Page Identifier(s):PRGY 2666, Nov 14 1988
- Bailey, "Sears Offers Added Credit To Boost Holiday Volume" The Wall Street Journal Doc Page Identifier(s):PRGY 2667 Dec 7 1988
- Kantrow et al "Chemicals Exit Not Fatal Blow to Home Banking" American Banker Doc Page Identifier(s):PRGY 2668-2669 Dec 7 1988
- Author unknown "Who's Who in Video Banking Nationwide" Doc Page Identifier(s):PRGY 2670 Dec 7 1988.
- Carroll "IBM'S Telecommunications Effort With Rolm Unit Has Turned Sour" The Wall Street Journal Doc Page Identifier(s):PRGY 2671 Dec 12, 1988
- Author unknown "Prodigy" Doc Page Identifier(s):PRGY 2672-2744 Jan 1988
- Author unknown, "Appl Dev. Reference Manual", Doc Page Identifier(s):PRGY 2745-3027, Dec 2, 1987 to Mar 28 1988.
- Lexis database "W3.com Introduces first visitor-tracking software for web sites; software increases interactivity provides powerful tracking and customization features while simplifying web site development" Business Wire 1995
- Lexis database, "Cover Story: free mail part two; two companies announce free internet e-mail services" IAC (SM) Newsletter Database (IM) Future Systems Inc Multimedia & Videodisc Monitor 1995
- "UK: Home Computer From Your Own Correspondent"; Reuters Info Svcs; 1996; 2 pgs.
- Fried; "NewsNet: An Offering of Current and Specialized Information"; Online; Jul 1985; 9(4); pp 99-105
- Lexis database; "On-Line Mortgage Service Will Operate Over Internet"; National Thrift News Inc.; Oct 31 1994; 3 pgs
- Lexis database: "FreeLoader, Inc Announces the First Service to Deliver the Internet Offline"; PRNewswire Association Inc; Jan 19 1996; 3 pgs
- Lexis database "Getting Wired With SI"; Times Newspapers Limited; Jan 22, 1995; 1 pg
- "PED Software Introduced Journalist Software That Allows Users to Retrieve and Print Data From the Prodigy Online Service"; Newsbytes News Network; Apr 5, 1994; Dialog 01014310
- Raymond; "NewsFlash: Or One Cybrarian's Quest for Electronic News Delivery"; Special Libraries; Fall 1994; vol 85; Issue 4; pp 270-273
- Reinheimer; "Information on Demand's Multi-File Electronic Clipping Service"; National Online Meeting; New York, NY; May 5-7 1987
- Wilder; "Get News While Your PC Sleeps"; Net Access; Feb 26 1996; p 77; http://techweb.amp.com
- O'Connor; "Free E-mail Service Slated For The Fall; Limited Urban Areas To Try Our Advertiser-Supported Messaging Service"; Jul 1 1995; The Austin-American-Statesman; 2 pages
- "AOL Virtual Museum Other Online Services"; Aug 17 2001; 5 pages
- "AOL Virtual Museum 10 000 Free Hours"; Dec 19 2001; 4 pages

- Rowland; "Internet at a crossroads"; originally published in the Toronto Star newspaper on Jun 13, 1996; 7 pages.
- "Free Internet Access From AT&T—Have They Lost Their Minds?!!?"; Discount Long Distance Digest News; Feb 27 1996; 2 pages
- Smith David; "Re: More on AT&T Internet"; Nov 8, 1995; 1 page
- "Internet Access Pricing In The OECD"; 45 pages; date unknown
- von Klitzing; "Seven Mile-Boots"; Internet News; From OEM 6 OneEurope Magazine No 6 available at <http://www.karl.aegee.org/oem-pub.nsf/0871f09451d3ee53c12563220041795b44473cd7408db6224125659f0040908a?OpenDocument>; Feb 24 1995; 3 pages.
- Dedrick; "A Consumption Model For Targeted Electronic Advertising"; Intel Architecture Labs; IEEE MultiMedia; 1995; pp 41-49
- Adams; "Game Credits"; available at http://www.designersnotebook.com/Game_Credits_game_credits.htm; undated; 8 pages
- "World's First Banner-Ad"; undated; 2 pages
- White; "Hand-held gambling devices may be in a casino near you"; Las Vegas Sun; May 26, 2005; 3 pages
- Chan; "Globalization of Internet Access"; Proceedings of The IEEE International Conference on Industrial Technology 1996; pp 485-488
- "Internet Chess Club" From Wikipedia the free encyclopedia; Jun 29 2005; 2 pages
- "Washington DC History"; Last modified Mar 12 2003; Copyright 1995-2005 Hagen Software; 5 pages
- "ManifestDestiny Marketing, Inc. Business Plan"; ManifestDestiny Marketing Inc; date unknown; 35 pages
- "America Online Acquires ImagiNation Network From AT&T"; AT&T News Release; Aug. 6 1996. (2 pages).
- "Case Study: The World's Largest Gaming League"; <http://www.igl.net> 1 pg. (printed on Mar 2 2005)
- "ELO Rating System"; http://en.wikipedia.org/wiki/ELO_rating_system; 5 pgs (printed on Mar 2 2005)
- "For People New to IGS Pandanet"; <http://www.pandanet.co.jp/english/guide/intro.htm> 2 pgs (printed on Mar 2 2005)
- "ICC Help: FIDErating"; <http://www.chessclub.com/help/FIDErating> 3 pgs. (printed on Mar 2 2005)
- "ICC Help: Ratings"; <http://www.chessclub.com/help/ratings> 2 pgs (printed on Mar 2 2005)
- "Internet Chess Club"; http://en.wikipedia.org/wiki/Internet_Chess_Club 2 pgs. (printed on Mar 2 2005)
- Iu; "Computers Making Inroads in Crossword Market"; *Crossword Tournament New York Times*; Aug. 18, 1996 (6 pgs)
- "Mech Warrior 2: 31st Century Combat"; <http://www.mechreg.com> 1 pg (printed on Mar 2 2005)
- "New Site Design & Features"; <http://www.igl.net/www/staff/messages/66.shtml>; 4 pgs (printed on Mar 2 2005)
- "Online World Timeline"; Mar 4 2000; (37 pgs)
- "The History of the Mech warrior 2: Registry"; <http://www.mechreg.com/history.htm> 2 pgs (printed on Mar 2 2005)
- "The Mech Warrior: Registry Level 2 Ladder Top 25"; <http://www.mechreg.com/ladder2.htm> 2 pgs (printed on Mar 2 2005)
- "HotWired Goes Live" available at <http://www.hotwired.com> Oct 1994 4 pages
- "New Newsletter: Tradewinds—Trade magazine coverage of the Net"; Tradewinds Kenneth Iiss(Editor) vol 1 No 2 Nov 1994 9 pages.
- "San Jose Mercury News Now Publishing on the World Wide Web All Mega News. Jan 18 1995 2 pages
- Klecker email "Subject: Re: Cookies?" Jul 12 1996. 2 pages.
- US Appl. No. 10,994,054 filed Nov. 18, 2004 Goldberg et al "Game Credits: Published Games"; *International hobo*; (date unknown); 7 pp
- Goldberg; "The History of Computer Gaming Part 5—PIATO Ain't Just Greek"; (date unknown); 3 pp.
- Koster; Raph's Page: Online World Timeline; *Raph's Website gaming section*; Feb 20 2002; 37 pp
- Markowitz; "War Dewar Mega Wars: Multiplayer Online Tactical Combat"; Sep 1 2000; 6 pp
- Gomes; "Cookies"; Feb 13 1996; 8 pp
- Bell; "Netstuff: Free Personalized Internet news"; *PointCast*; Feb 14 1996; <http://www.monitor.ca/monitor/issacs/vol3iss7/netstuff.html>; 1p
- Brian; "Cookies (Client-Side Persistent Information) and Their Use"; *Netscape*; 1995; 2 pp
- Frook; "PointCast Gets Personal"; *PointCast*; Feb. 22 1996; 1 p
- Nieuwenhuysen et al; "Document+program Hybrids in the Internet and Their Impact on Information Transfer in Science and Technology"; *University Library, Vrije Universiteit Brussel, Pleinlaan 2 B-1050 Brussels—Belgium*; <http://educate.lib.chalmers.se/aul/proceedcontents/fullpaper/nieuw.html>; 2 pp
- Graetz; "The Origin of Spacewar"; *Creative Computing* 39E> Hanover Avnuc Morris Plains NJ 07950; 1981; 15 pp
- Russell et al; "Spacewar"; *Maurry Markowitz*; 2000; 12 pp
- Waugh; "Request for Ex Parte Reexamination of Patent No 6,264,560" dated Jan 31 2008 2542 pages.
- Maurer et al; "Frequently Asked Questions About Poker" rec gambling Usenet Newsgroup, available at <http://groups.google.com/group/rec.answers/msg/9f0812cdfdd732c82> posted Feb 28 1995 40 pages.
- Manual "Manny Raposa Bf Journey at the IP" rec gambling Usenet Newsgroup available at <http://groups.google.com/group/rec.gambling/msg/cabdbcb28789394b0> posted Feb. 24 1992 3 pages
- Eliezer; "Navigating Main Street: a user's experience with interactive TV: GTE Main Street" 9 The Seybold Report on Desktop Publishing No 5, 3 (Jan. 15, 1995) 9 pages
- Netrek BRMH-1.7 Client Source Code <http://ftp.netrek.org/pub/netrek/mirrors/ftp.csua.berkeley.edu/old/netrek/old/BRMH1-7.tar.gz> (last modified Oct 16 1993) 783 pages
- Netrek Server 2.5p14 Server Source Code <http://ftp.netrek.org/pub/netrek/mirrors/ftp.solace.mh.se/netrek/servers/vanilla/Server2.5p14.tar.gz> (last Modified Dec. 15 1994) 1300 pages
- McFadden; "The History of Netrek through Jan 1 1994" rec games netrek Usenet Newsgroup available at <http://groups.google.com/group/rec.games.netrek/msg/66264d6b5a4b1470> (posted May 1 1994) 17 pages
- Rumsy Re: Beta testers for port of BRM 3.0 to Win 3.1 NT wanted rec games netrek Usenet Newsgroup, available at http://groups.google.com/group/rec.games.netrek/browse_frm/thread/9400abb64afd98102ba31d76f61174d0 (posted Feb 12 1994) 11 pages.
- Gray; "Internet Growth Summary" available at <http://www.mit.edu/people/mkgray/net-internet-growth-summary.html> last visited Dec 17 2007 2 pages.
- Lewis; "Microsoft Seeks Internet Market; Netscape Slides" NY Times Dec 8, 1995 available at <http://query.nytimes.com/gst/fullpage.html?res=9f00fede1f39f93ba35751c1a963958260&sec=&spn=&pagewanted=all> 4 pages
- Declaration of David Ahn (including Exhibit A-S) Dec 14 2007. 134 pages
- Holub; "Netrek Server List" available at <http://groups.google.com/group/rec.games.netrek/msg/8dbc01d4abee5ace> Last-Updated Dec 21 1993 8 pages
- Google groups Rec games netrek Search for dave ahn available at <http://groups.google.com/group/rec.games.netrek/carch?q=dave+ahn&start=0&scoring=d&date-unknown> 1 page
- Ahn; Help getting rec-rsa working with server available at http://groups.google.com/group/rec.games.netrek/browse_frm/thread/4da4c5af59745a61fd676cab98a25b8a dated Nov 15 1994 3 pages.
- "How far back does Google's Usenet archive go?" available at <http://groups.google.com/support/bin/answer.py?answer=46439&topic=9246> 2007 3 pages
- Holub; rec games netrek FAQ list available at <http://groups.google.com/group/rec.games.netrek/msg/9bbd5514020d51fa> last updated Jul 21 1994 9 pages.
- Holub; rec games netrek FAQ list available at http://groups.google.com/group/rec.games.netrek/browse_frm/thread/35a84ca78ce38bdb9bbd5514020d51fa last updated Jul 21 1994 28 pages
- Holub; "Netrek FTP list" available at <http://groups.google.com/group/rec.games.netrek/msg/ac03262b6ac8c4c1> last updated Jul 21 1994 10 pages

Murase "Re: Windows Client" available at http://groups.google.com/group/rec.games.netrek/browse_frm/thread/d6ecc5c095bf8a38. Sep. 30, 1994. 6 pages.

Murase "Re: Windows Client" available at <http://groups.google.com/group/rec.games.netrek/msg/20da2a42b64333a8>. Oct. 1, 1994. 2 pages.

Trown "New Server Release" available at <http://groups.google.com/group/rec.games.netrek/msg/d7fb4451975e61b2>. Aug. 9, 1994. 1 page.

Hadley "BRMH-1.7" available at <http://groups.google.com/group/rec.games.netrek/msg/00b0aa5dfdb1ba99>. Oct. 15, 1993. 2 pages.

Ivey "Re: AGRI poppage (was Re: Bombing a planet—is it an art?)" available at <http://groups.google.com/group/rec.games.netrek/msg/d166eac4e839bc59>. Aug. 17, 1994. 3 pages.

Trown "Re: Nctrek server help!" available at http://groups.google.com/group/rec.games.netrek/browse_frm/thread/e728557051dc0c134f1af10b05d68ac8, Nov. 19, 1994. 4 pages.

Ahn "Re: www.netrek.org—no longer the game?" available at <http://groups.google.com/group/rec.games.netrek/msg/ee9a7af9f7a39305>. Oct. 23, 1998. 2 pages.

Holub "Netrek FTP list" available at <http://groups.google.com/group/rec.answers/msg/ebcb9a14c0d4de78>. last updated Dec. 14, 1994. 11 pages.

"Netrek Software Archive" available at <http://ftp.netrek.org/pub/netrek/mirrors/ftp.csua.berkeley.edu/old/netrek/old/>. Apr. 16, 1999. 3 pages.

"Netrek Software Archive" available at <http://ftp.netrek.org/pub/netrek/mirrors/ftp.solace.mh.sc.netrek.servers.vanilla>. Jan. 5, 2000. 1 page.

List of files in BRMH-1.7 tar.gz. Oct. 15, 1993. 3 pages.

List of files in Server2.5p14 tar.gz. Aug. 9, 1994. 5 pages.

Declaration of Kevin Smith. Dec. 17, 2007. 6 pages.

Kuester "Web Ad Revenue Climbed 42.6 Percent in Third Quarter Jupiter Communications." Nov. 20, 1996, available at <http://web.archive.org/web/19961228211028/http://www.jup.com/jupiter-release/nov96/adspend/adspend.shtml>. 6 pages.

* cited by examiner

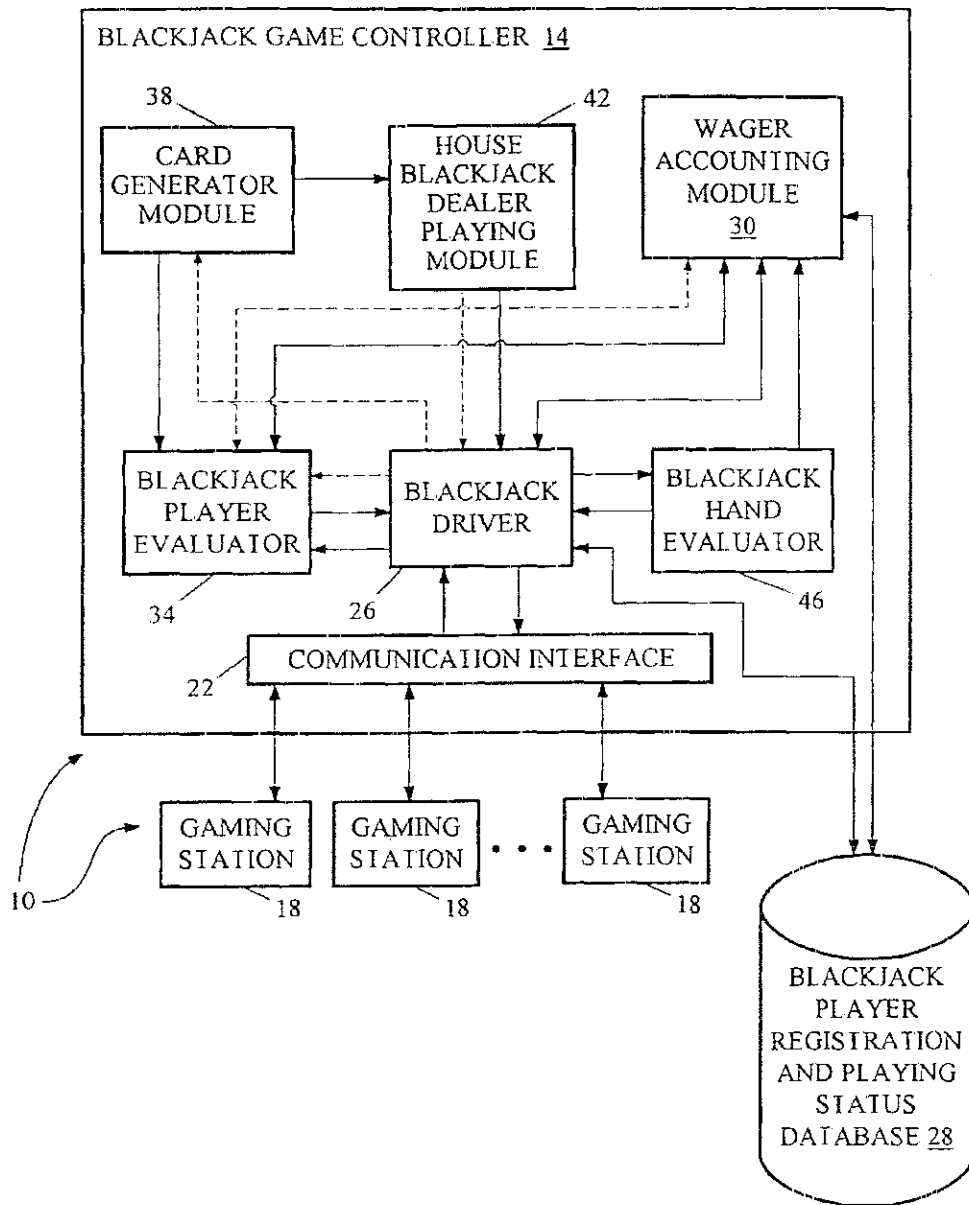


FIG. 1

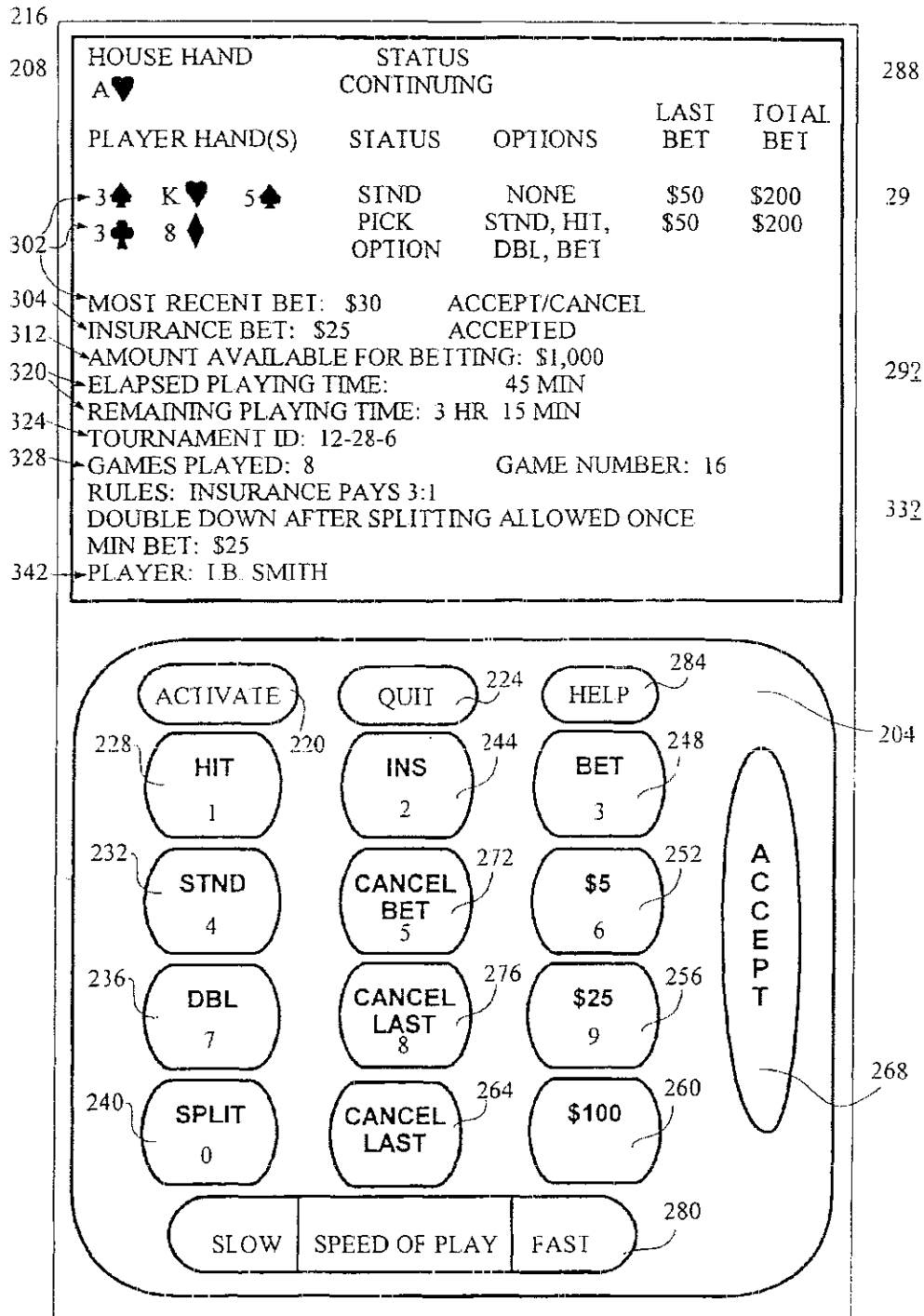


FIG. 2

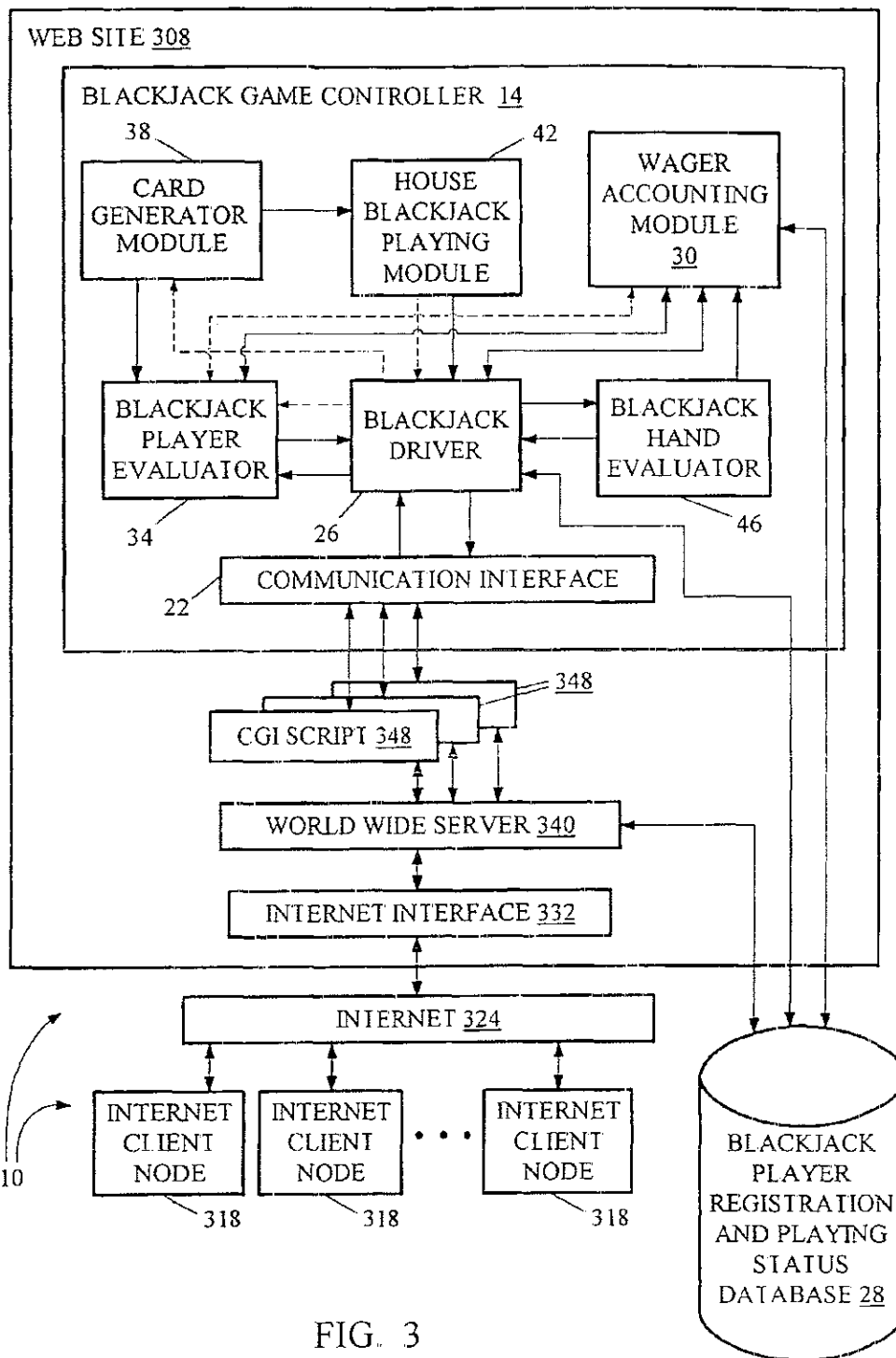
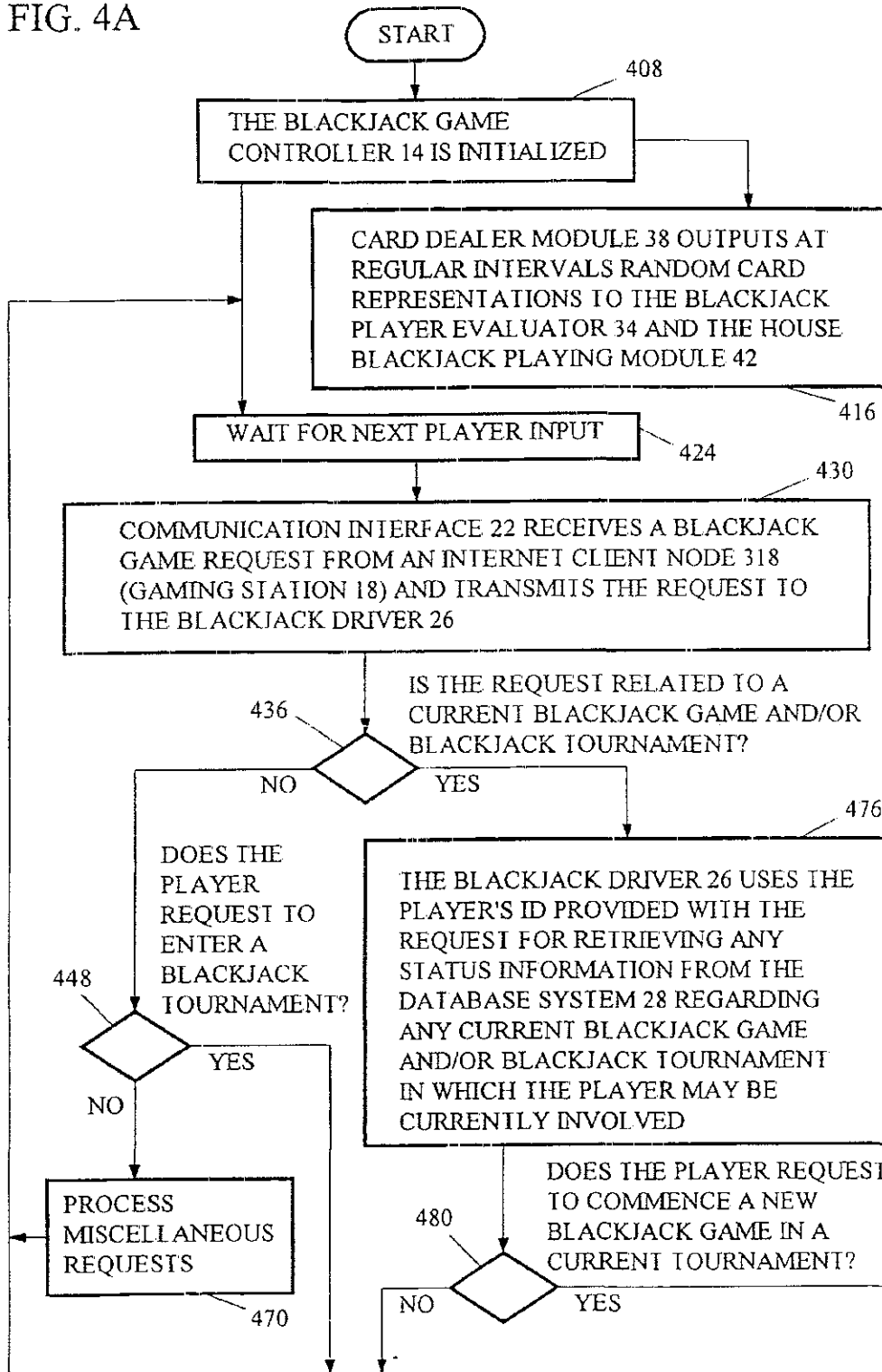


FIG. 3

FIG. 4A



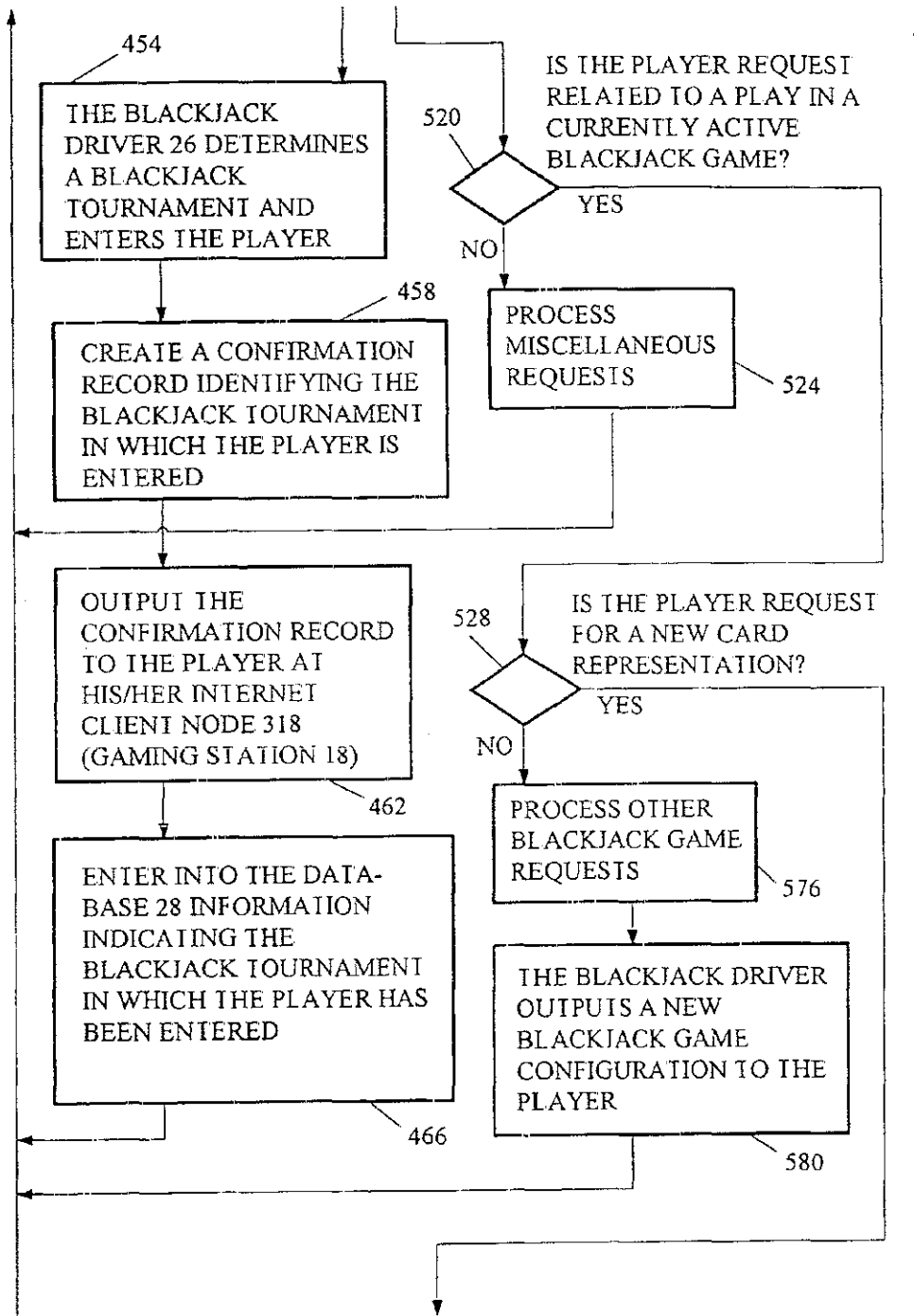


FIG. 4B

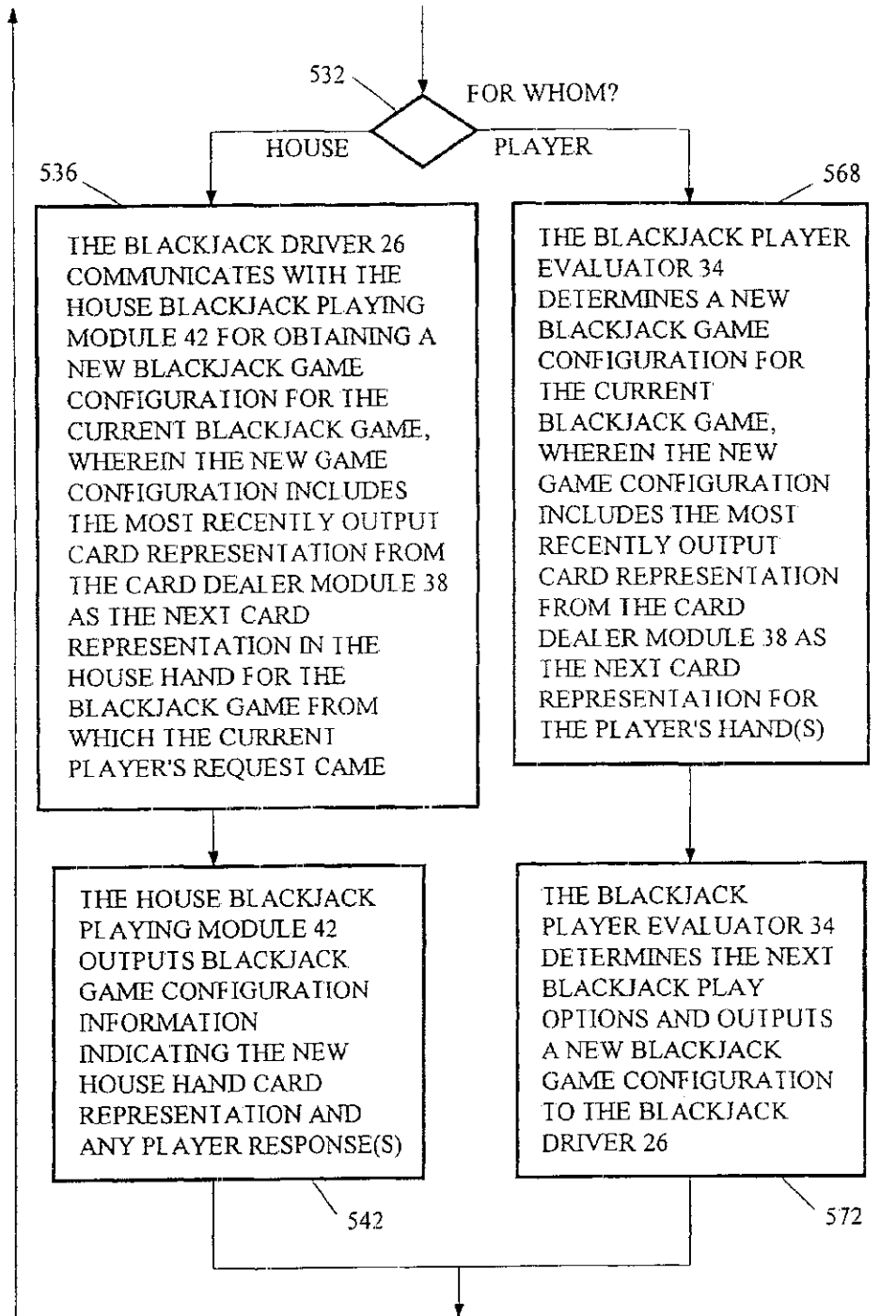


FIG. 4C

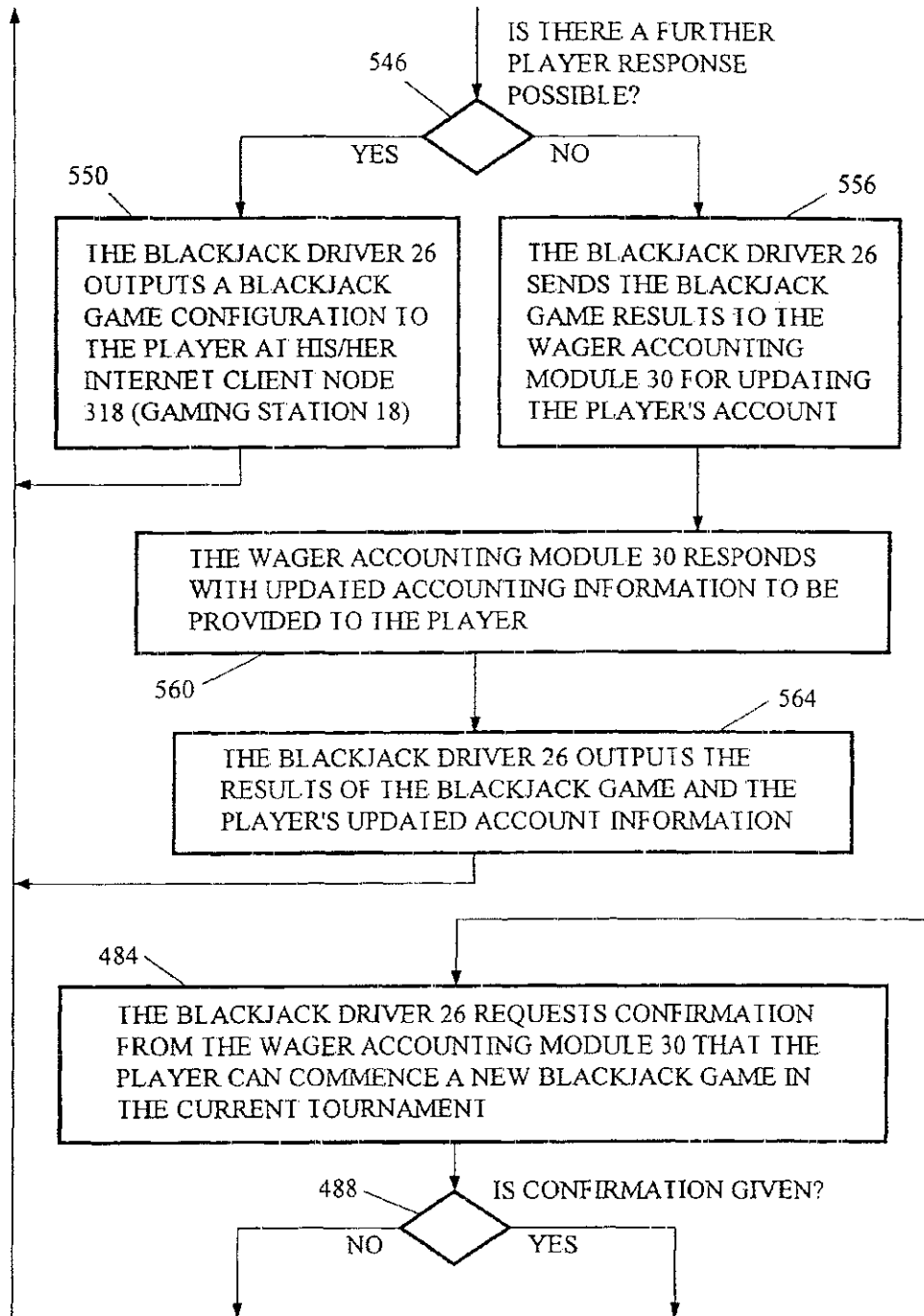


FIG. 4D

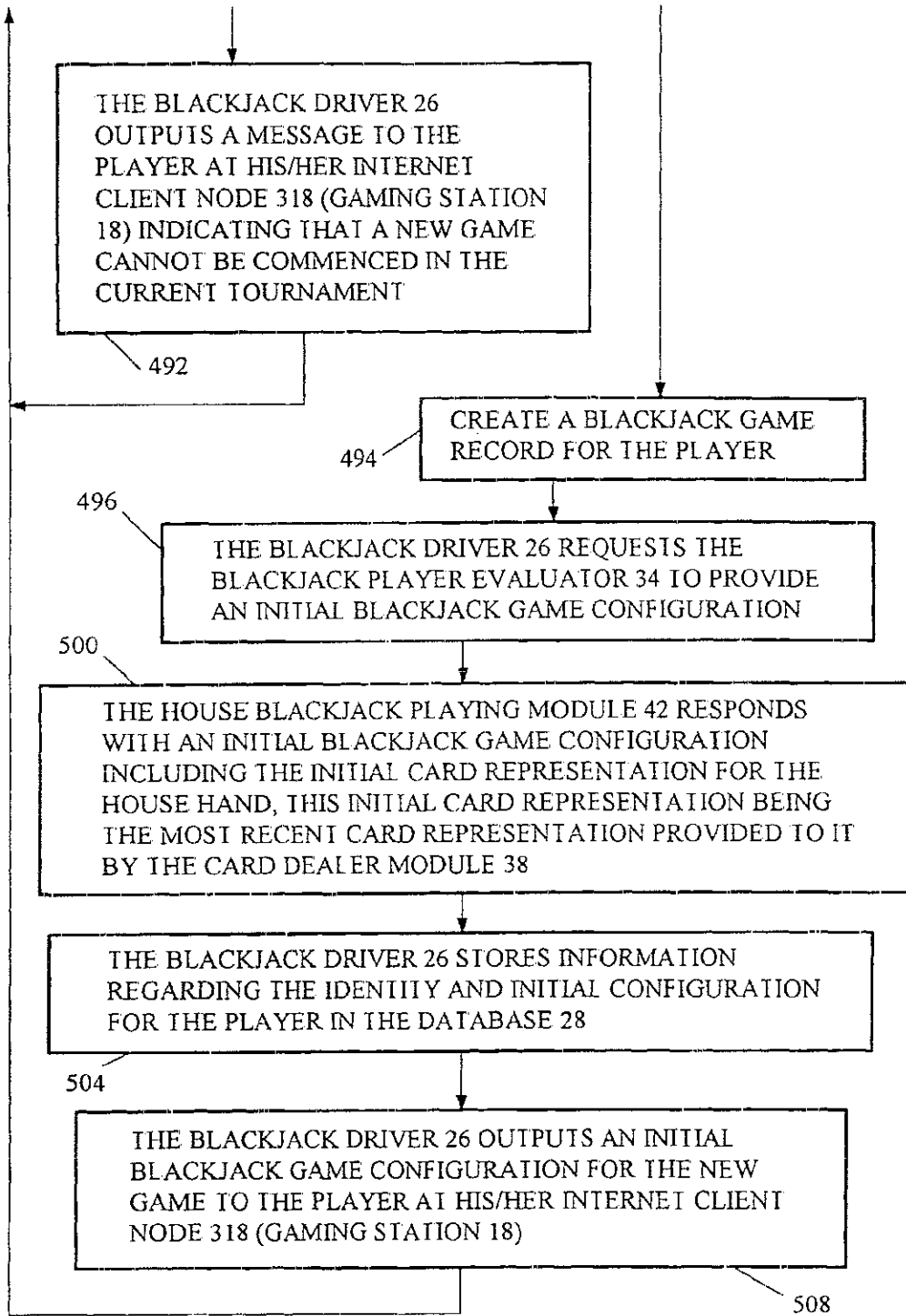


FIG. 4E

VALUES OF CARDS FROM CARD SEQUENCE OUPUT BY THE CARD DEALER MODULE 38 →	604										
	3	5	7	2	9	8	10	10	10	10	
BLACK JACK GAME 610	PLAYER HAND EVALUATION	3		10	--			19			
	HOUSE HAND EVALUATION		5				13		23		
BLACK JACK GAME 614	PLAYER HAND EVALUATION		5				13	--		23	
	HOUSE HAND EVALUATION			--	2						
BLACK JACK GAME 620	PLAYER HAND EVALUATION			7				16			
	HOUSE HAND EVALUATION				2		10	20			
BLACK JACK GAME 626	PLAYER HAND EVALUATION							9		19	
	HOUSE HAND EVALUATION						8				18

FIG. 5

606

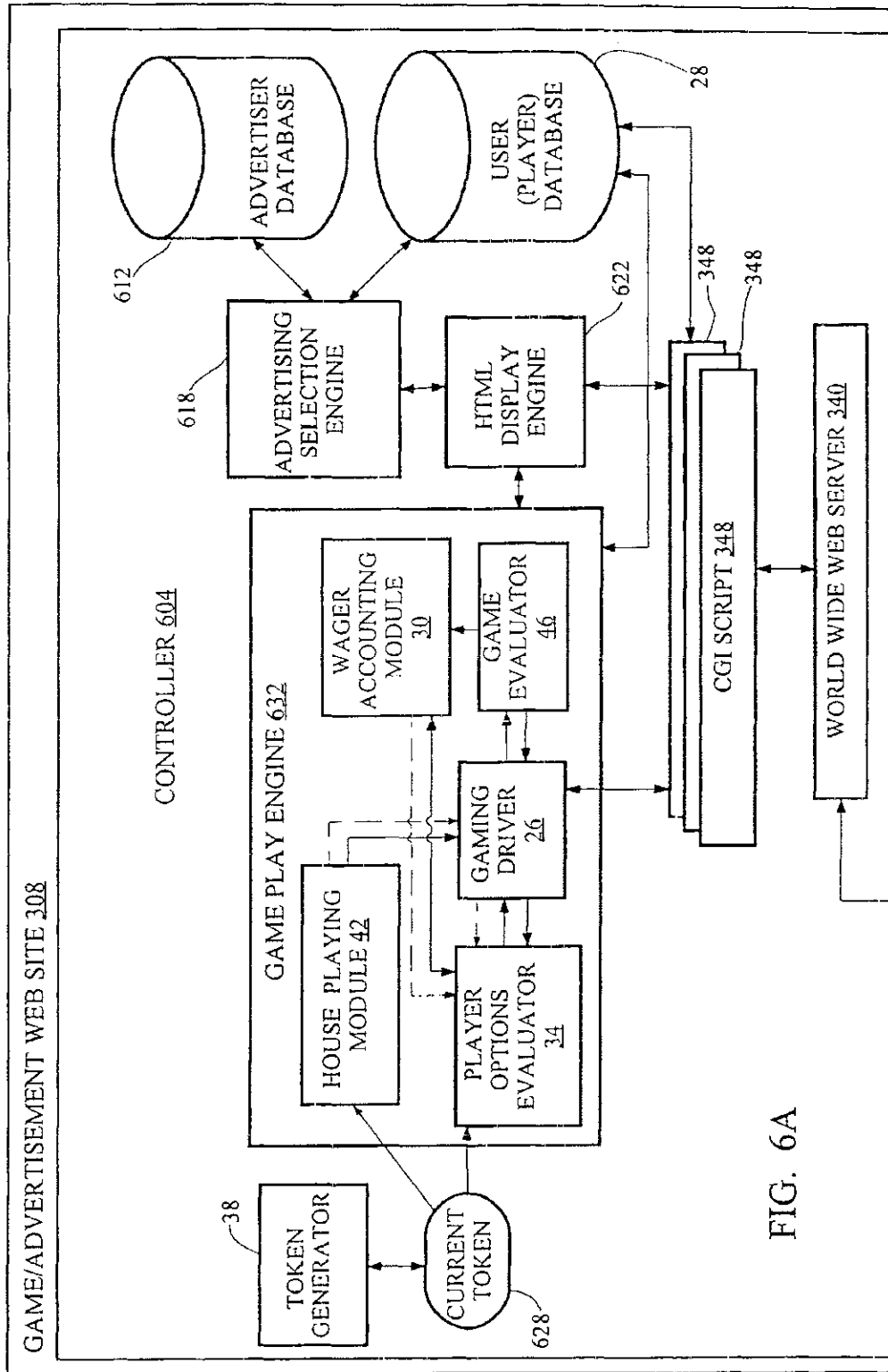


FIG. 6A

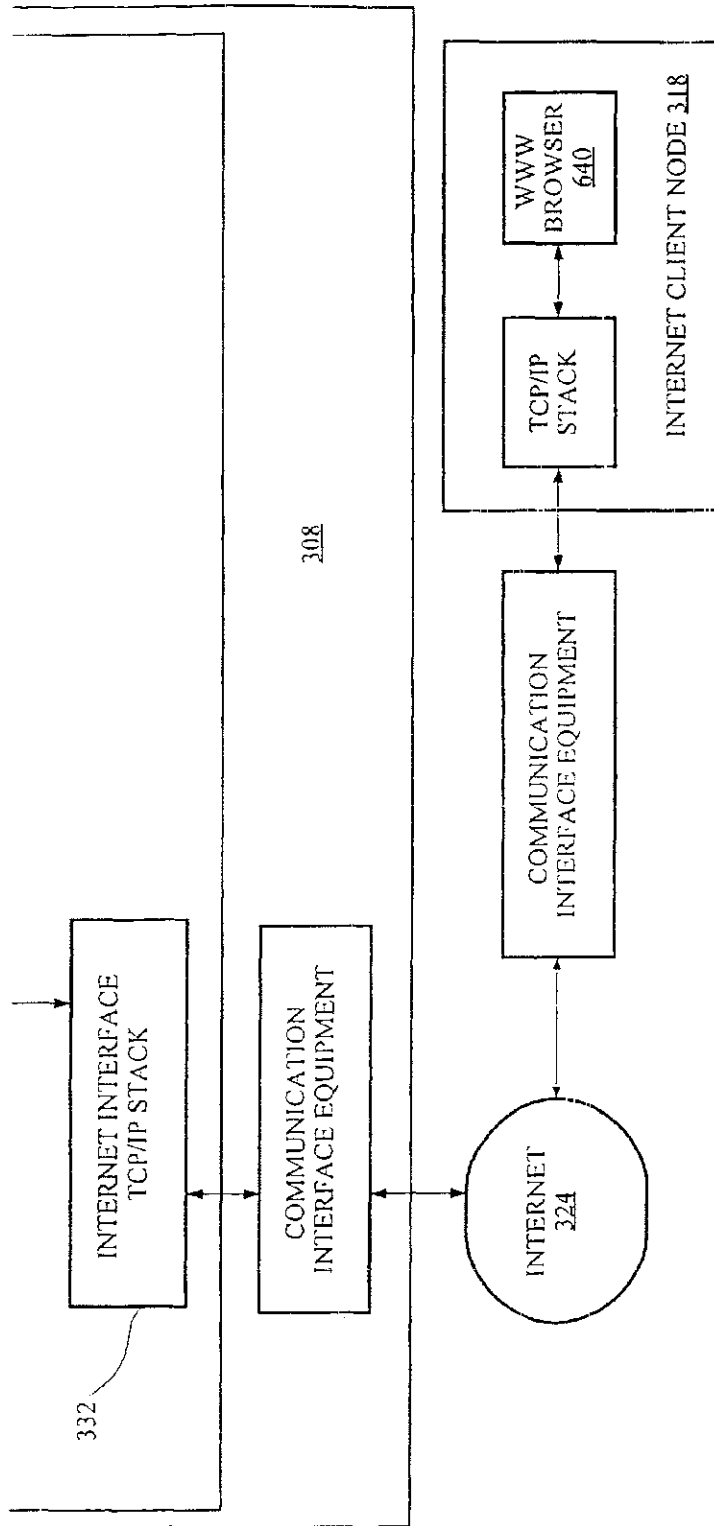


FIG. 6B

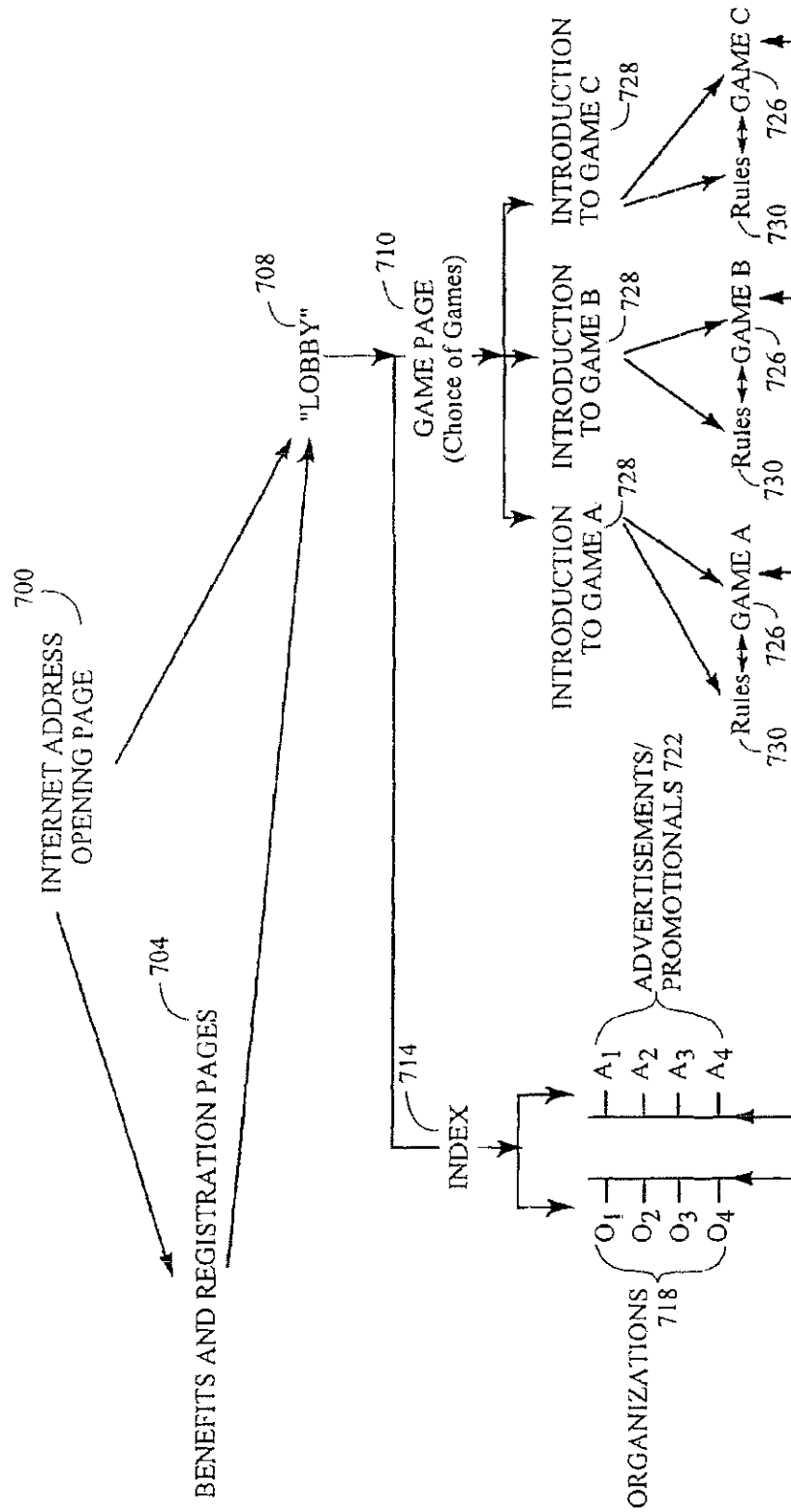


FIG. 7

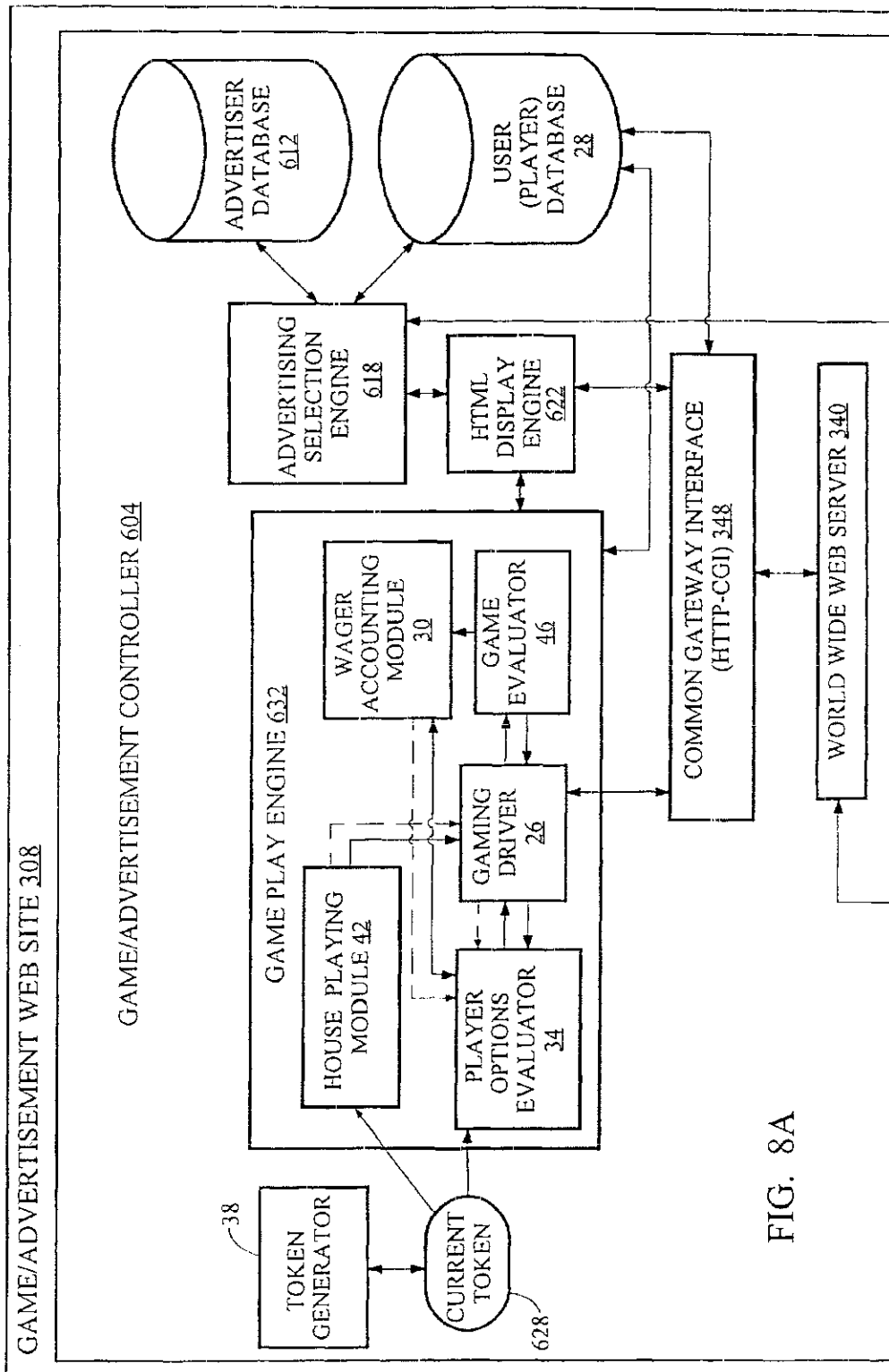


FIG. 8A

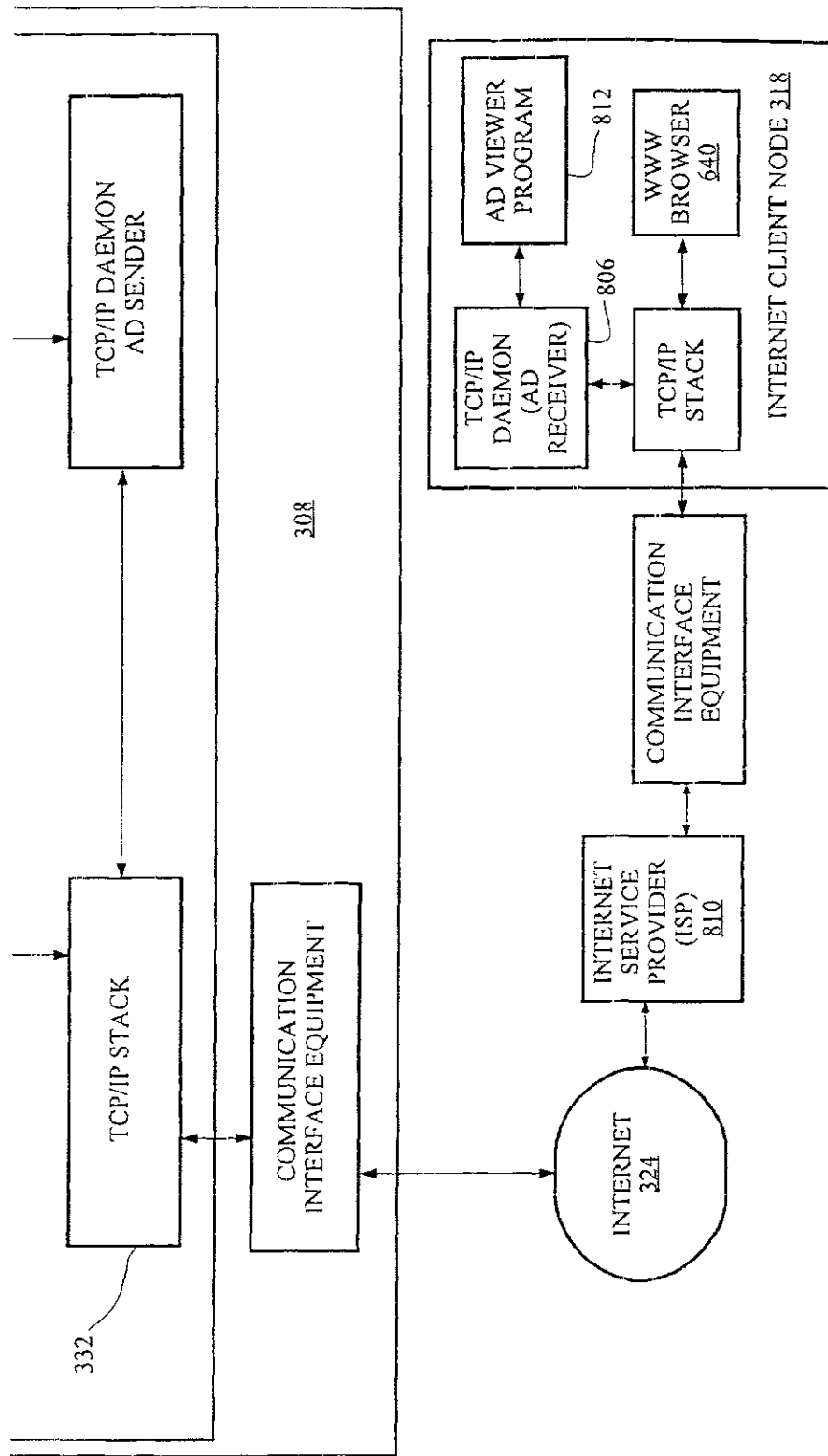


FIG. 8B

1
**NETWORK SYSTEM FOR PRESENTING
 ADVERTISING**

RELATED APPLICATIONS

The present application is a continuation of prior U.S. application Ser. No. 09/105,401 filed Jun. 26, 1998 (now U.S. Pat. No. 6,183,366), which is a continuation of U.S. application Ser. No. 08/759,895 filed Dec. 3, 1996 (now U.S. Pat. No. 5,823,879) which claims the benefit of the following two applications: U.S. Provisional Application Ser. No. 60/010,361 filed Jan. 19, 1996 and U.S. Provisional Application Ser. No. 60/010,703 filed Jan. 26, 1996. The entire disclosure of each of the above-identified applications is considered to be part of the disclosure of the present application and is hereby fully incorporated by reference.

FIELD OF THE INVENTION

The present invention is related to a method and apparatus for automating the playing games such as blackjack so that they can be played continuously and asynchronously by a potentially large plurality of players substantially, and wherein information related to goods and services for sale can be exchanged between players and sponsors of advertisements presented during the playing of a game.

BACKGROUND OF THE INVENTION

The cost-effective automation of playing certain games, like blackjack, has been difficult due to the fact that these games typically require a dealer and only a relatively small number of players may play the game with a single dealer. However, with the popularity of local and wide-area data communication networks, it is desirable to have an automated gaming system for games such as blackjack wherein large numbers of players may cost-effectively and efficiently play such games.

Furthermore, it has been difficult to cost-effectively provide a network gaming system on such networks as the Internet in that gaming restrictions prohibit wagering and ante fees in most contexts except such situations as local area networks within a casino. However, since many players have an interest in playing casino-type games, it would also be desirable to have a way to benefit from interests in such games. Accordingly, it would be desirable to have a system that utilized a gaming context as a vehicle for delivering product and/or service information to users of a network such as the Internet. In particular, it would be desirable to have a data processing system that provided a large number of players with the ability to substantially asynchronously play casino-style games on the Internet for prizes at a reduced risk or at substantially no risk wherein the data processing system coordinated the presentation of products and/or services from sponsors of the games so that there is a coordinated, interactive exchange of information between players and sponsors regarding advertisements, samples, prizes and questionnaires related to sponsor products and/or services.

Accordingly, since the present invention, as described in the sections hereinbelow, addresses the above-discussed problems within the context of playing blackjack, an overview of this particular game is provided so that the novelty and various related aspects of the present invention may be more fully appreciated.

Description of Blackjack:

The card game of blackjack is a game of chance played between a designated player known as a "dealer" and one or

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more other players. Basically, each player plays against the dealer in the sense that each player attempts to achieve a collection or hand of cards having a total score for the hand closer to the value 21 than the score of the hand of the dealer. However, if a player's card hand goes over 21, the player may lose any wagers bet on the hand regardless of the value of the card hand of the dealer.

In further detail, blackjack is typically played with one or more standard playing card decks wherein each card has a value. In particular, each of the face cards has the value of 10, and non-face card has a value identical to the numerical value as indicated on the card, except for aces. That is, for aces a value may be assigned of either 1 or 11, depending on which value a player deems most beneficial to his/her hand.

In one conventional method for playing blackjack, at the commencement of a blackjack hand, each player initially is provided with two cards and the dealer also receives two cards. Typically one of the dealer's cards is dealt with the value of the card showing whereas the other card is dealt with the value of the card hidden. However, variations on when the dealer receives his/her cards may depend on the blackjack gaming rules where blackjack is being played but, in any case, one of the dealer's cards must be face-up before the players exercise various wagering options beyond an initial ante.

After a player has reviewed his/her cards, the player may request one or more additional cards in an attempt to get: (a) a value for a card hand that will be greater than the hand the dealer will have, and (b) a value for the card hand that is less than or equal to 21. Further, a player may under certain circumstances as will be described below, simultaneously play more than one hand of cards against the dealer's cards. However, in requesting such additional cards, a player runs the risk of "busting" each hand played wherein the player loses his/her wager(s) on a card hand by adding cards to the hand until a value exceeding 21 occurs. Further note that such busting of a hand occurs regardless of whether or not the dealer has a card hand value of less than or equal to 21.

Note that after each player has ceased to request further cards (i.e., each player "stands" on his cards), the dealer either takes one or more further cards (i.e., "hits") according to predetermined blackjack rules as established, for example, by the gaming establishment where the blackjack game is being conducted. In general, the dealer must take additional cards if his/her current card count total is less than 17 and the dealer must decline further cards if the dealer's hand has a value of 17 or more. However, there are various rules regarding whether a dealer may stand or hit when the card count total is a "soft 17." That is, one of the dealer's cards is an ace (and therefore may have a value of 1 or 11) and one of the values for the dealer's hand is 17. For example, the dealer may be required to take a hit on a soft 17.

Since a hit(s) taken by the dealer is performed after all players have exercised their wagering options, the final numerical value of the dealer's hand is then compared to the final numerical value of each of the player's hand(s) to determine the winning and losing wagers. Note that if the dealer's hand exceeds the value of 21, then any player that has not busted wins the wagers for their hand(s) regardless of the hand's total value. Alternatively, if the dealer's card hand is less or equal to 21, then it is compared with each of the player's card hand(s) and in each comparison the card hand with the closest total value to 21 without exceeding 21 wins. Of course, ties are possible. In such cases (called a "push") the player's wager(s) on his/her card hand are returned.

It is typical in blackjack to have at least three additional player options depending on the circumstances of play. A first such option is known as "doubling down" wherein if the

player's first two cards have a value within a predetermined range (e.g., 10 or 11) then the player may double his or her wager and once dealt a single additional card, the total of the three card hand becomes the value for the player's hand. Alternatively, another option is that of "splitting pairs" wherein if the player's first two cards are identical with the exception of suit (i.e., a pair) then the pair may be split so that two card hands are created with one card of the pair in each hand. Thus, the player must wager on each of the hands at least the initial wagering or ante amount. Subsequently, a second card and any subsequent successive cards are dealt to each of the separate hands as the player requests and the results of both hands are compared to the dealer's hand, assuming neither the dealer nor either of the player's two hands busts.

In a third option, played immediately after each player has been dealt their first two cards and the dealer has been dealt at least a first card, a player may request "insurance" under the circumstances where the dealer's single face-up card is an ace. In this circumstance, the player is betting that the dealer has blackjack (i.e., a card value total of 21). If the dealer does not have blackjack, then the insurance bet is forfeited and the player plays his/her blackjack hand as if the insurance bet were never made. Note that the player can typically wager an insurance bet of one-half of the amount of his/her initial blackjack wager or ante and if the dealer has blackjack, then the dealer (or the gaming establishment) pays the player double or triple his/her insurance bet.

Further note that options for splitting pairs and doubling down may interact with one another according to certain pre-established gaming establishment rules wherein, for example, a player may double down on one or more of his/her split hands.

Additionally, there are blackjack tournaments having tournament entrants that compete against each other for tournament prizes. In such tournaments each entrant has a fixed initial number of points that can be wagered in a pre-established number of tournament blackjack games to be played. Accordingly, the player having the highest number of points at the end of the tournament wins the tournament. Note that in such tournaments, there may be specific guidelines established at the beginning of the tournament for varying the blackjack gaming rules between tournament games. For example, rules may vary on when a player may split pairs repeatedly during the same blackjack game. Also, double down rules may vary so that, for example, after a splitting of pairs, a player may be allowed to double down on any two cards or, alternatively, an additional wager of less than the initial wager may be acceptable when a player requests to double down.

However, in all known variations of blackjack, players are only allowed to enter a blackjack game at the completion of a previous game and further there is a relatively small number of players that can play blackjack at a dealer's station simultaneously. Accordingly, it is desirable to provide a system for playing blackjack wherein potentially a very larger number of players can play blackjack simultaneously from a single dealer station and wherein players can commence playing blackjack at their own discretion without waiting for a previous blackjack game to complete.

SUMMARY OF THE INVENTION

The present invention is a computerized interactive advertising system (i.e., method and apparatus) for exchanging information regarding goods and/or services between a first population of users (hereinafter also known as "players" or

"users") and a second population of users (hereinafter also known as "sponsors" or "advertisers"). In particular, the sponsors or advertisers may present information related to goods and/or services to the players using the present invention and the players may view this information while, for example, interacting with the present invention for playing a game such as blackjack, craps, roulette, poker, pai gow or the like. Moreover, a player may also interact with the present invention so that the player has the capability for responding to sponsor or advertiser presented questionnaires, as well as for purchasing or viewing sponsor goods and/or services. Thus, the present invention provides an information exchange service within a gaming context for enticing players to view and/or interact with sponsor presentations such as interactive advertisements.

It is also an aspect of the present invention that each player or user is presented with advertisements for products and/or services, wherein it is believed the player will be receptive to the advertisement. That is, the present invention selectively presents advertisements to each player, according to stored characteristics and preferences of the player that the present invention has determined from, for example, player supplied personal information, player responses to questions and/or analysis of player interactions such as player requests for additional information related an advertisement. Thus, such a selective presentation of advertisements allows a sponsor or advertiser to provide information related to relatively extensive or expensive promotionals (e.g., demonstrations, samples, discounts, trial subscriptions, prizes, bonuses) to players most likely to subsequently purchase the advertised product or service. Consequently, such selectivity can greatly increase the cost effectiveness of advertising wherein the term, advertising (or advertising presentation), as used herein is understood to include not only product or service presentations that are merely informational, but also more interactive advertising presentations such as promotionals wherein discounts, free samples or a trial usage may be offered.

Moreover, it is an aspect of the present invention that each player may interact with and play a game at a time and pace (i.e., tempo) substantially of the player's choosing. In particular, the player is not bound by a required order or sequence of play involving other players, even though the player may be in competition with other players. In fact, a player may cease play for an extended time while in the midst of a game and subsequently continue the game at the point where the player ceased to play. Thus, if the present invention is easily accessible, then players may interact with the present invention at their leisure.

Accordingly, in a related aspect of the present invention, it is intended that players (more generally, users) are able to interact with the present invention remotely, as for example, via the Internet and/or an interactive cable television network. Thus, using an Internet embodiment as an exemplary embodiment of the present invention, a gaming web site may be provided wherein players may access the interactive gaming capabilities of the present invention and substantially simultaneously also be presented with sponsor or advertiser provided information related to goods and/or services of the sponsor or advertiser (those two terms being used substantially interchangeably to denote e.g., those who provide advertising to users and/or subsidize game playing, product promotionals or network access). Moreover, the sponsor provided information may include, for example, hypertext links (also denoted hyperlinks) that allow players to activate, for example, network transfers for obtaining additional information regarding a sponsor's goods and/or services regardless of

the status of any game in which a player may be currently involved at the gaming web site

It is a further aspect in one embodiment of the present invention that a player is able to commence play of a game at substantially any time the player accesses the present invention. That is, it is not necessary for any previous game being played by other players to be completed for the player to commence play. In other words, games provided by the present invention may be continuously and asynchronously commenced or entered by players.

It is a further aspect of the present invention to require each player to use a distinct identification provided when the player "registers" with the present invention before playing any games so that a network site for the invention may be able to identify each player. Accordingly, it is an aspect of the present invention during registration, that each player provides personal information about him/herself both for gaming identification and for use as selection criteria by sponsors or advertisers for presenting particular presentations. For example, in the case of an Internet embodiment of the present invention, such registering can be performed via the Internet prior to play of any games at a gaming/advertising web site. Thus, players may be required to provide the present invention with information about themselves such as name, address, E-mail address, age, sex, and/or other player characteristics deemed pertinent to one or more sponsors or advertisers. Accordingly, the present invention provides a sponsor or advertiser with the capability to target its presentations substantially only to players or users having selected characteristics as, for example, determined from player information provided when registering with a network site for the present invention.

It is a further aspect of the present invention to have players compete against one another for prizes in one or more gaming tournaments. Using the Internet embodiment of the present invention as illustrative, a gaming/advertising web site for the present invention may partition the population of players into competitive groups wherein each group includes the players for a distinct tournament. Moreover, the present invention may determine a competitive group according to criteria such as: (a) the game(s) to be played in the tournament; (b) a skill level for the players (e.g., as determined by play in a previous tournament(s)); (c) particular player characteristics such as age, area of residence, home ownership, etc.; (d) particular player lifestyle traits such as traits exhibited by exercise enthusiasts or cruise ship enthusiasts; and (e) particular player preferences such as preferences related to jewelry, personal care products or particular sports.

It is a further aspect of the present invention to allow players to play games offered by the present invention without incurring financial risk or charges beyond those that are typical for the network being used in accessing the present invention.

It is a particular aspect of the present invention to provide blackjack and other casino-style games such as craps, roulette, poker, pai gow, or variations thereof wherein such games may be played by a plurality of players continuously and asynchronously and wherein each game is likely to be unique from all other games being played concurrently. Furthermore, in a related aspect of the present invention, such games may be automated so as to not require a manual dealer. Also, the present invention may be played in one embodiment in a gaming establishment (e.g., casino) using low cost gaming stations at which players may play such games entirely electronically. Alternatively, in another embodiment, the present invention may be used to play such casino style games as blackjack on the Internet. In this later embodiment,

a blackjack game controller for the present invention communicates with blackjack players at Internet client nodes via a web site from which the blackjack game controller is accessed. Thus, blackjack players may play blackjack in the privacy of their own homes and at their leisure since the present invention does not require that a particular tempo of a blackjack game be maintained.

Additionally, the present invention utilizes novel varieties in such games, as blackjack, that make the games more enjoyable for users. For example, using variations of blackjack as illustrative, in one novel embodiment wherein the dealer functions are automated by a dealer module, this module can play blackjack with a plurality of players concurrently such that each player appears to be playing exclusively with the dealer module (e.g., "head-to-head"). Moreover, in one blackjack embodiment, each blackjack game is played asynchronously from other concurrent blackjack games with the dealer module. Furthermore, the dealer module may play a different dealer card hand with each player. In particular, the initial one (or two) cards (or card representations) dealt to the dealer for each game are unlikely to be the same for any two blackjack games being played with the dealer module; i.e., the probability of any two concurrently played blackjack games being identical is substantially equal to chance. Accordingly, this variation is particularly worthwhile when players are playing remotely through a network such as the Internet. Alternatively, in a different blackjack variation, the dealer module and each player concurrently playing blackjack with the dealer module may be provided with cards (or card representations) from the beginning of an identical sequence of card representations. Thus, each concurrently playing player receives an identical initial card hand and the dealer is also dealt an identical initial card hand. Subsequently, the card hands within each concurrent game will vary only if players request further cards differently. Accordingly, this variation of blackjack is particularly useful in tournament blackjack played within the confines of a casino, wherein the play of each player in the tournament is synchronized to start and stop within a predetermined interval. Note that this variation of blackjack is enjoyed by tournament players in that the tournament players may consider it a better or fairer way for demonstrating blackjack playing skill.

Other features and benefits of the present invention will become apparent from the detailed description with the accompanying figures contained hereinafter.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of an embodiment of the present invention wherein this embodiment may be used within a blackjack gaming establishment such as a casino.

FIG. 2 provides a representation of the gaming stations 18 of FIG. 1 wherein these gaming stations are used in gaming establishments for playing blackjack.

FIG. 3 is a block diagram of an alternative embodiment of the present invention wherein the present invention is used to play blackjack on the Internet.

FIGS. 4A-4F represent a flow chart for the processing performed by the blackjack game controller 14 when processing blackjack requests from players in either of the embodiments of FIG. 1 or FIG. 3.

FIG. 5 provides a simple example of the operation of the present invention for playing a novel variation of blackjack wherein four blackjack games are shown being played asynchronously with the blackjack game controller.

FIGS. 6A and 6B are a block diagram of an Internet embodiment of the present invention.

FIG. 7 is a diagram illustrating how a user navigates through web pages of the World Wide Web for accessing the game/advertisement web site 308 (FIG. 6) functionality; and

FIGS. 8A and 8B are an alternative embodiment of the game, advertisement web site 308. In particular, FIGS. 8A and 8B is a block diagram of an alternative embodiment of the present invention wherein an advertisement sending daemon (i.e., TCP/IP daemon ad sender on the host computer 308) and an advertisement receiving daemon 806 (on the client end user machine 318) communicate for periodically displaying advertisements and other announcements to a user on the end user machine 318.

DETAILED DESCRIPTION

In FIG. 1, a block diagram is presented of a first embodiment of an electronic system 10 for the present invention for playing blackjack, wherein data flows are represented by solid arrows and control flows are represented by dashed arrows. In particular, the embodiment of FIG. 1 presents an architecture for the present invention for use on, for example, a local network within a casino, wherein low cost gaming stations may be utilized. Accordingly, the blackjack gaming system 10 includes a blackjack game controller 14 electronically connected to one or more potentially remote gaming stations 18 so that for each gaming station a player may play blackjack. In the blackjack gaming system 10, the blackjack game controller 14 functions substantially as a dealer would in a manually operated blackjack game and each gaming station 18 provides a blackjack player with an electronic representation of a blackjack game wherein it may appear that the player (i.e., user) at the gaming station 18 is the only player playing against the dealer (i.e., head-to-head against the blackjack game controller 14). Accordingly, each gaming station 18, as will be discussed with reference to FIG. 2 below, includes a display for displaying both the dealer's cards and the player's cards. Each gaming station 18 also includes player interaction capabilities for requesting additional cards, activating various blackjack player options at appropriate times, and potentially increasing various wagers at predetermined phases of a blackjack game. Further note that each gaming station 18, when in operation, may request a security code be provided by a player for identifying himself/herself or, alternatively, the gaming station may request the player to insert an electronic card (not shown) into the gaming station 18 so that information electronically encoded upon the card is read at the gaming station and transferred to the blackjack controller 14.

Referring now to the internal structure of the blackjack game controller 14, a gaming station interface 22 is provided for interfacing with each of the gaming stations 18. In particular, the gaming station interface 22 buffers data signals between the other components included within the blackjack game controller 14 and the gaming stations 18. For example, the gaming station interface 22 may have speed matching buffers in order to adjust for differences in speed between the blackjack game controller 14 and the gaming stations 18. A blackjack driver 26 exchanges data with the gaming station interface 22. The blackjack driver 26 substantially coordinates the operation of the blackjack game controller 14. In particular, the following capabilities are substantially provided by the blackjack driver 26:

- (1) identifies each player requesting to play blackjack at one of the gaming stations 18;
- (1.2) creates internal data structures for communication with other modules of the blackjack game controller 14 regarding each blackjack game being played; in particular, black-

jack gaming data objects or records are (re)instantiated with each player request, such data objects providing sufficient information for the blackjack game controller 14 to properly respond to each received player request;

- (1.3) determines the output of the blackjack game controller 14 to each of the active gaming stations 18;
- (1.4) distributes blackjack gaming data between other modules of the blackjack game controller 14; and
- (1.5) provides card representations to gaming stations 18.

In performing the above tasks, the blackjack driver 26 communicates with a blackjack player registration and playing status database 28. The database system 28 maintains in persistent storage information regarding each blackjack player. In particular, the database system 28 maintains:

- (2.1) information identifying each player; e.g., a unique player identification code;
- (2.2) information regarding, for example, each blackjack player's financial status; in particular, a credit limit and a current amount of funds (either to be paid or received from the player);
- (2.3) for each person registered to play blackjack, information regarding the status or context of any game the player is presently playing; that is, sufficient information is stored so that the blackjack game controller 14 can retrieve this information and continue a blackjack game in response to receiving a player's request;
- (2.4) for each person registered to play blackjack, information regarding any blackjack tournament that the player is playing; in particular, since such a tournament typically requires a tournament player to complete a specified number of blackjack games in a predetermined amount of time and/or to complete a specified number of blackjack games out of a total number of blackjack games, the following types of information may be stored: (a) information relating to the number of blackjack games completed by the player; (b) information related to the time and/or the number of games remaining in the tournament; and (c) information related to the amount of funds or points in the player's account for the tournament.

The blackjack driver 26 communicates with a wager accounting module 30 wherein the wager accounting module provides the following capabilities:

- (3.1) determines various wagering limit parameters for the next one or more blackjack games to be played (e.g., the wagering limit per game and the total wagering limit per player); and
- (3.2) performs wagering accounting for each player's wins and losses.

Thus, the wager accounting module 30 is instrumental in initializing a new blackjack game in that this module receives and maintains financial information related to each currently active player at a gaming station 18. Thus, the wager accounting module 30 has a communication data channel with the blackjack player registration and playing status database 28 so that the wager accounting module 30 may retrieve information for determining whether the player has, for example, sufficient financial resources to cover potential wagering losses. Of course, to provide wagering evaluation information to other controller 14 modules, the wager accounting module 30 receives identifying information from each such module requesting an evaluation.

The blackjack driver 26 also communicates with a blackjack player evaluator 34. The blackjack player evaluator 34 receives from each player (via instantiations of blackjack gaming data objects from the blackjack driver 26) all black-

jack player requests except the data from each player indicating an amount to be wagered. Thus, the blackjack player evaluator 34:

- (4 1) determines each player's options during blackjack games; and
- (4 2) responds to player requests for hits or to, for example, split pairs

Thus, the blackjack player evaluator 34 enforces the gaming establishment rules related to player options during a blackjack game. Note, however, that in responding to certain player requests, the blackjack player evaluator 34 communicates with the wager accounting module 30 to confirm that a proper wager accompanies the requested option and that the wager is acceptable to the wager accounting module 30.

The blackjack player evaluator 34 is supplied with data corresponding to blackjack card representations from a card generator module 38. The card generator module 38 generates, for example, an ordered collection or sequence of substantially random card representations and each such card representation is provided to the blackjack player evaluator 34, wherein the blackjack player evaluator responds to each player's valid hit request by outputting the most recent card representation received from the card generator module 38. That is, each player at a gaming station 18 receives a card representation according to when the player's request is received by the blackjack player evaluator 34.

Further, note that the card generator module 38 also supplies the same card representations as supplied to the blackjack player evaluator 34 to a house blackjack playing module 42, wherein this latter module plays the dealer's hand in each blackjack game. Thus, the house blackjack playing module 42 enforces the blackjack gaming rules on behalf of the gaming establishment. In particular, this module determines when and how insurance bets can be made related to the dealer's cards. Note, as with the blackjack player evaluator 34, the house blackjack playing module 42 outputs, when required to provide the dealer's hand with another card representation at a gaming station 18, the most recent card representation received from the card generator module 38. Further, note that the house blackjack playing module 42 provides control information to the blackjack driver 26, particularly regarding activation of the blackjack insurance option. This information, in turn, is conveyed to the blackjack player evaluator 34 so that this latter evaluator may activate the insurance option for each player at an active gaming station 18.

A blackjack hand evaluator 46 is also in communication with the blackjack driver 26. The blackjack hand evaluator 46 evaluates each player's hand(s) in comparison to the dealer's blackjack hand for determining the win/loss/tie for each player's hand. Thus, the dealer's hand and the one or more hands played by each player at a gaming station 18 is supplied to the blackjack hand evaluator 46. Subsequently, this evaluator outputs win/loss/tie results to the gaming stations 18 via the blackjack driver 26 and the gaming station interface 22. Further, the blackjack hand evaluator 46 also outputs win/loss/tie results along with the identity of the player playing each hand to the wager accounting module 30 so that wager credits and debits for each player's account may be updated according to the last or most recent blackjack game results.

In FIG. 2, an embodiment of a gaming station 18 is illustrated. The gaming station 18 includes a player input area 204 wherein a player may press touch-sensitive portions of a thin film laminated with blackjack player operations and requests. Immediately above the player input area is a player output display area 208 for displaying blackjack gaming information related to the player. Optionally, each gaming station 18 may

include a player identification card reader 216 so that a blackjack player may identify him/herself at a gaming station 18 by swiping a magnetic identification portion of a player identification card (not shown) through the card slot 220 thereby allowing the card reader 216 to transmit the player's encoded identification upon his/her card to the blackjack game controller 14. However, it should be noted that other configurations of the gaming station 18 are also contemplated by the present invention. In particular, gaming station 18 may not have a card reader 216. Instead, a blackjack player may be required to register either manually or automatically at a site remote from the gaming station 18, or alternatively personal identification numbers may be provided to players for identifying themselves via the player input area 204 wherein, for example, a numeric digit provided in the lower bottom portion of some of the touch-sensitive areas may be used by the player to input a personal identification number. Further, the arrangement of the touch-sensitive portions of the player input area 204 and the format of the display area 208 (both being discussed in detail below) may have other arrangements and still be within the scope of the present invention.

Describing in detail now the touch-sensitive portions of the player input area 204, an activate/enter next game button 220 is provided. This button is used to initially activate the gaming station 18 so that a "request to play" signal is transmitted to the blackjack driver 26. That is, assuming a player activates this button at a gaming station 18, the blackjack driver 26 responds by requesting that the player input his/her identification via, for example, placing an identification card in the card reader 216 and/or a personal identification number via the player input area 204. Additionally, note that the button 220 may be pressed at the end of a blackjack game for indicating that the player wishes to play another blackjack game. Note that in one embodiment of the present invention when consecutive games are played by a player, the player need only press the button 220 to commence a new game. That is, the player's identification need not be entered for each consecutive game played (assuming the button 220 is activated within a predetermined time after the last game has terminated).

The player input area 204 also includes a quit button 224 that a player may press to explicitly indicate the player's desire to terminate any further gaming at the gaming station 18.

Additionally, buttons 228 through 248 provide the player with the capabilities to request the following blackjack gaming requests:

- (5 1) The "HIT" button 228 allows the player to request another card to be dealt to him/her.
- (5 2) The "STAND" button 232 allows the player to stand on a current blackjack hand.
- (5 3) The "DOUBLE" button 236 allows the player to double down under appropriate circumstances as determined by the blackjack player evaluator 34.
- (5 4) The "SPLIT" button 240 allows the player to split the player's first two cards into two separate blackjack hands when these first two cards are identical.
- (5 5) The "INS" button 244 allows the player to request insurance under the circumstances where the dealer's single face-up card is an ace.
- (5 6) The "BET" button 248 allows the player to request that a bet or wager be entered during a blackjack game.

Note that subsequent to requesting a bet via the "BET" button 248, the buttons 252 through 264 are activated so that the player may input various betting amounts. In particular, buttons 252 through 264 provide the player with the option to bet \$5.00 (button 252), \$25.00 (button 256), \$100.00 (button

260) and \$500.00 (button 264). Moreover, a sequence of the buttons 252 through 264 may be pressed for obtaining a bet not provided by a single button. For example, to bet \$130.00, the player presses consecutively each of the buttons 252, 256 and 260 (in any order) exactly once.

The player input area 204 also includes various confirm and cancel buttons 268 through 276. The accept button 268 allows the user to accept a last input. For example, it is an aspect in the present embodiment of the invention that after each user input, the input is accepted either by the player explicitly pressing the accept button 268 or by allowing a predetermined amount of time to expire after the last player input. The "CANCEL BET" button 272 allows the user to cancel an immediately preceding bet that was input. However, note that if a time limit is exceeded for placing a bet due to, for example, the player pressing the "CANCEL" button 272, then any minimum bet required will be automatically wagered on the player's behalf by the wager accounting module 30. Further, the "CANCEL LAST" button 276 may be used by the player to cancel the immediately preceding wager of one of the dollar amount buttons 252 through 264. Thus, if a player intended to bet \$125.00 by pressing first the button 260 followed by the button 256 but instead pressed the button sequence 260 and 264, then the player may press the button 276 for cancelling the \$500.00 bet associated with button 264 and subsequently the player presses the button 256 to obtain the desired bet of \$125.00. Note further that pressing the "CANCEL LAST" button twice in succession also cancels the entire bet.

A "SPEED OF PLAY" button 280 may be optionally provided on the player input area 204. This button allows the player to specify to the blackjack driver 26, for example, the predetermined amount of time after a player input to wait before each subsequent input is automatically accepted. In one embodiment of the present invention, the "SPEED OF PLAY" button 280 includes active areas at each end of the button, wherein if the user presses the "slower" end of the button 280 then the predetermined time(s) for automatically accepting a player input is lengthened. Alternatively, if the player presses the "faster" end of the button 280, then the predetermined default acceptance time(s) becomes shorter. However, it is important to note that the tempo of the blackjack game is, using the present invention, no longer as important as in typical blackjack gaming situations. That is, since each blackjack player using the present invention is not playing in sequence with other players, there is less concern about speedily playing so as not to delay other players.

Lastly, the player input area 204 includes a "HELP" button 284 for allowing the player to request assistance from, for example, the personnel of the gaming establishment providing the gaming station 18.

Referring now to display area 208, the screen display provided here is but one of a number of contemplated screen layouts for the present invention. In particular, the screen layout illustrated in display area 208 is a representative layout for use in playing tournament blackjack. Thus, when other modes of blackjack are played other than tournament blackjack, then it is within the scope of the present invention to modify the fields represented in the display area 208 according to the player needs for the type of blackjack being played. Further, it is important to note that in one embodiment, the display 208 is in color so that, for example, diamonds and hearts are in red and spades and clubs are in black, and various fields of the display area 208 may be highlighted for focusing a player's attention on the portion of the display providing information most relevant to the player's currently permissible options.

Describing now the fields currently presented in display 208 at the top of the display is the house hand area 288: (a) for providing a representation of the cards that have been dealt to the house; (b) for providing a status of the house hand (i.e., one of: "STAND" for standing, "BUSTED", when the value of the house hand exceeds 21, and "CONTINUING" when the house may take additional hits. That is, this field provides an annotation "house hand:" followed by a representation for at least one card that has been dealt to the house; i.e., an acc. of hearts. In the player's hand area 292 of the display area 208, there are five columns providing information related to each blackjack hand the player is currently playing in the blackjack game. The columns provide the following information:

(6 1) The "PLAYER HAND(S)" column provides, in each row of this column, a different blackjack hand that is being played simultaneously by the player in the current blackjack game. Thus, two blackjack hands are presently represented as being played simultaneously by the player on the display area 208. That is, an upper or first hand having a three of spades, king of hearts, and a five of spades, and a lower or second blackjack hand having a three of clubs and an eight of diamonds. (Note, when a player chooses to double down, card representations in common between two blackjack hands may be displayed in a row between the remaining card representations for both hands. Alternatively, card representations in common between blackjack hands may be duplicated in the blackjack hands to which the common cards representations apply.)

(6 2) A "STATUS" column for indicating the current status of each blackjack hand the player is playing. That is, for the first or upper hand that the player currently is playing the status is "STAND" thereby indicating that the player has elected to stand on this hand. Alternatively, for the second or lower hand a status of "PICK OPTION" is provided thereby indicating that it is the player's turn to pick a blackjack playing option for this hand. Note that there are at least three possible values for the status field of each blackjack hand being played. That is, in addition to the two represented in FIG. 2, a "BUSTED" status value is output for indicating that the value of the related blackjack hand has exceeded 21.

(6 3) The "OPTIONS" column provides, for each blackjack hand being played, an indication of the permissible blackjack plays that the player currently may select from for the related blackjack hand in the same row. Thus, for the first hand illustrated in area 292, there are no options remaining for the player to play related to this hand. However, on the second hand, four permissible player inputs are displayed as options to the player. That is, the player may stand on the related hand (STND) by pressing button 232, the player may request a hit (HI) by pressing button 228, the player may double down (DBL) by pressing button 236 and the player may bet an additional wager by pressing button 248 and subsequently putting a bet amount using buttons 252 through 264.

(6 4) The "LAST BET" column displays to the player his/her last bet for each blackjack hand the player is currently playing. In particular, for both the upper and lower hands shown in area 292, the player's last bet was \$50.00.

(6 5) The "TOTAL BET" column displays to the player the total bet the player has wagered on the blackjack hand to which it relates. For example, in FIG. 2, in both the upper and lower player's blackjack hands displayed, the player has bet a total of \$200.00.

Below the player hand area 292 is the player information area 296 wherein additional blackjack gaming information relating to the player is displayed. In particular, labeled line

300 displays the most recent bet amount that the player has requested along with a tag indicating the status (e.g. "ACCEPT/CANCEL") of the most recent bet. Note that the status may be: (a) "ACCEPTED" for explicitly or implicitly indicating the acceptance of a displayed wager (via the player pressing the accept button 268 or by default due to a time limit expiring); (b) "CANCELLED" for explicitly indicating the cancellation of the last entered wager (via the player pressing either of the cancel buttons 272 or 276); (c) "REJECTED", this status being displayed due to the wager accounting module 30 rejecting the player's most recent bet; and (d) "ACCEPT/CANCEL" for indicating that the present invention is waiting a predetermined amount of time for the player to explicitly accept or cancel the most recent bet. Thus, in the example of line 300 in FIG. 2, the player has indicated a most recent bet of \$30.00 and the blackjack driver 26 has output a status of "ACCEPT/CANCEL" as in (d) above. Further note that the blackjack hand(s) to which this most recent bet applies may be designated in any of a number of ways such as, for example, highlighting the row(s) in the player hand area 292 of the blackjack hand(s) to which the most recent bet of line 300 applies. Alternately, an indicator such as arrows 302 may be used as in FIG. 2 to indicate to the player that the most recent bet is to be applied to both the upper and lower blackjack hand(s).

Additionally, note that line 304 displays the annotation "INSURANCE BET" together with any insurance amount that has been bet by the player. Accordingly, the dollar amount on line 304 and the notation at the right end of the line pertain, respectively, to the amount that has been bet as insurance, and the status of this bet (i.e., one of "ACCEPTED", "CANCELLED", "REJECTED" or "ACCEPT/CANCEL" as in line 300).

In line 312 of the player information area 296, the total amount of funds available by the player for betting is displayed. For example, line 312 of FIG. 2 indicates that the player has a total amount for betting of \$1,000.00. Note that the wager accounting module 30 maintains this total amount available for betting and updates it after each blackjack game.

The lower three lines 320, 324 and 328 of the player information area 296 provide blackjack player information that is particularly useful when playing in a blackjack tournament. Thus, the information in these three lines may not be displayed when the present invention is used by players not in a tournament. In line 320, two fields are provided for displaying playing time information. The leftmost field, annotated by the label "ELAPSED PLAYING TIME:", displays the total amount of time the player has played blackjack (which in this case is 45 minutes). Alternatively, the rightmost field, annotated by the label "REMAINING PLAYING TIME:", displays the time remaining in the tournament.

In line 324 an identifier for any tournament associated with the present blackjack game is displayed.

In line 328, up to two additional fields are provided that are useful in tournament blackjack. The leftmost field having an annotation of "GAMES PLAYED:" displays to the player the number of blackjack games he/she has completed within a tournament. Note that in some blackjack tournaments each player is required to complete a certain predetermined number of games within a predetermined allotted time period. For example, a blackjack tournament may require each player to play 50 games within a predetermined interval (such as four days). Relatedly, but optionally, in blackjack gaming contexts where the total number of blackjack games in the tournament is meaningful, the rightmost field of line 328, having the annotation "GAME NUMBER:", displays to the player the total number of tournament games that have been completed

thus far in the tournament. Accordingly, using at least the leftmost annotated field in line 328 and "REMAINING PLAYING TIME:" annotated field of line 320, the player is able to determine the number of remaining games in the tournament that he/she must play.

Further note that other blackjack game values are contemplated by the present invention. For example, a field providing the number of games remaining that a player must play in the tournament may be added (or substituted for) in addition to the current values in the player information area 296.

In a next display 208 lower area, denoted the rules area 336, blackjack house rules are displayed. In particular, the house rules displayed in area 336 allow variations upon the typical blackjack rules that a player is likely to assume if not presented with information to the contrary. Note that by providing these additional rules on the display of gaming stations 18, successive blackjack games may be provided with different house blackjack rules thereby creating an increased interest in each game by the players and requiring additional blackjack playing skills from the players. Note that three house rules are provided in the present display area 336. That is, (a) insurance for the present blackjack game pays 3 to 1 odds (instead of the typical 2 to 1 odds); (b) the player may double down after splitting only once; and (c) the minimum bet is \$25.00 for the current game.

Lastly, the display 208 includes a player identification area 342 for identifying the player currently playing blackjack at the gaming station 18. The present player area 342 includes a field having the current player's name (e.g., J. R. SMITH). However, other fields identifying the player are also contemplated by the present invention including, for example, a player identification number such as the number that may be encoded upon a player identification card used in conjunction with the card reader 216 for identifying the player.

FIG. 3 presents a second embodiment of the blackjack gaming system of the present invention. In this embodiment, the blackjack game controller 14 is substantially the same as described hereinabove. However, this controller 14 is now accessible through an Internet web site 308 so that blackjack players at Internet client nodes 318 can play blackjack on the blackjack game controller 14 via the Internet 324 (or more particularly, via the World Wide Web).

Accordingly, describing the web site 308 in more detail, it includes an Internet interface 332 for receiving and supplying communications between the Internet 324 and the remainder of the web site 308. The Internet interface 332 in turn communicates with World Wide Web server 340: (a) for validating and/or initiating registration of web site users (e.g., blackjack players) at web site 308; and (b) for interpreting Internet requests for routing and/or activating web site 308 modules that can fulfill such requests. Thus, the World Wide Web server 340 may access the database system 28 for determining the registration identity of, for example, a blackjack player. Additionally, upon receiving user registration confirmation regarding an Internet (e.g., World Wide Web) request, the World Wide Web server 340 activates instantiations of modules known as common gateway interface (CGI) scripts, each CGI script 348 instantiation (or, for simplicity, each such instantiation also being referred to as a CGI script 348) being: (a) for interpreting and processing Internet requests according to the semantics of a web site 308 application associated with the CGI script; and (b) for constructing Internet responses from output from the associated application. Thus, there are one or more common gateway interface modules provided wherein each CGI script 348 (instantiation) invokes the blackjack game controller 14 to process a single Internet blackjack request from an Internet client node 318 where a

player is playing blackjack and subsequently the CGI script 348 constructs an appropriate Internet response from the output received from the blackjack game controller 14.

Since the embodiment of the blackjack game controller 14 of FIG. 3 is substantially identical to that of FIG. 1, a description of its internal structure is not repeated here. However, it is worthwhile to note that the embodiment of FIG. 3 is particularly appropriate when the blackjack game controller 14 executes on a different or remote processor from that of, for instance, the processor performing the CGI script(s) 348. Further, note that if the blackjack game controller 14 executes on the same processor as the other web site 308 modules of FIG. 3, then the communication interface 22 may be unnecessary and additionally much of the functionality of the other components of the blackjack game controller 14 may be incorporated into one or more CGI scripts 348. Thus, for example, the blackjack player evaluator 34 functionality may be incorporated into one CGI script 348 while house blackjack playing module 42 functionality may be incorporated into another CGI script.

There are also noteworthy distinctions between the gaming stations 18 of FIGS. 1 and 2 and the Internet client nodes 318 of FIG. 3 as well as distinctions in blackjack play interactions. For example, the following distinctions may be provided:

- (7.1) Due to the potentially lengthy delays that occur on the Internet, the embodiment of FIG. 3 does not provide for automatic acceptance of a blackjack play (e.g., acceptance of an input bet or a default to a minimum ante) due to a time period expiring. Thus, the speed of play is determined by the responsiveness of each player and the responsiveness of the Internet.
- (7.2) Players may play blackjack in tournaments against one another on the Internet wherein, for each tournament entered by a player, he/she receives, without cost, a predetermined number of points to use for playing in the tournament. Note that prizes may be awarded to tournament winners as incentive to play in such blackjack tournaments. Further, note that the time period to complete a tournament may be substantially more lengthy than the time periods for typical blackjack tournament play. For example, a tournament may extend for 90 days since players can play at their leisure.
- (7.3) The input keys of gaming station 18 of FIG. 1 may be also presented on the display screens of Internet client nodes 318 wherein the input buttons of gaming station 18 now become active buttons on a blackjack web page generated by the web site 308 and presented to a player at an Internet client node 318. However, note that at least the speed of play key 280 is not necessary, as mentioned in reference to the embodiment of FIGS. 1 and 2 since the speed of play is of diminished importance.
- (7.4) There may be other types of information output to an Internet client node 318 in addition to the information displayed in FIG. 3. In particular, advertising information may be provided with each web site 308 response to a player regarding, for example, blackjack tournament sponsors and prizes.

In FIGS. 4A-4E, a flowchart is presented of the high level steps performed by the blackjack game controller 14 when processing player requests in either of the embodiments of FIG. 1 or 3 for playing a novel blackjack variation wherein new eligible card representations are generated periodically regardless of whether they are dealt in a blackjack game or not and wherein the blackjack players may play the game asynchronously from one another. In step 408, the blackjack game controller 14 is initialized so that it may process blackjack player requests and output appropriate responses to each

player's request. Subsequently, in step 416, the card generator module 38 commences to output at regular intervals (e.g., less than two seconds such as every 0.5 seconds) random card representations to both the blackjack player evaluator 34 and the house blackjack playing module 42. Thus, for as long as the blackjack game controller 14 is properly responding to blackjack player requests, the card generator module 38 continuously and regularly outputs card representations. Concomitantly with the actions in step 416, the remaining steps of FIGS. 4A-4E are performed. Thus, in step 424, the controller 14 waits for a (next) blackjack player input, such inputs being, for example, requests to enter a new blackjack tournament, requests to commence a new blackjack game within a tournament, requests to process a blackjack game play request, a request for information regarding the player's account, and a request for help information (such as how to play blackjack).

Upon receiving a blackjack player request in step 430, the communication interface 22 queues the request and subsequently transmits the request to the blackjack driver 26. In step 436, a determination is made as to whether the player's request is related to a current blackjack game and/or current blackjack tournament. If not, then step 448 is encountered wherein an additional determination is made as to whether the player's request is to enter a new blackjack tournament. If so, then in step 454, the blackjack driver 26 determines a blackjack tournament and enters the player into the tournament. Note that in providing this function, the blackjack player 26 communicates with the wager accounting module 30 to confirm that the player is eligible to enter a new tournament. Thus, the blackjack driver 26 supplies the wager accounting module 30 with at least the player's identification and a specification of the tournament in which the player may be entered. Note that the tournament selection may be provided by the player in some embodiments of the present invention. Alternatively, the blackjack driver 26 may select a tournament for the player using tournament information stored in the database system 28. Assuming that the wager accounting module 30 responds with a confirmation that the player may be entered into the selected tournament, in step 458, the blackjack driver 26 creates a confirmation record identifying the blackjack tournament in which the player is entered. Subsequently, in step 462, the blackjack driver 26 outputs information in the confirmation record to the player at his/her Internet client node 318 (gaming station 18). Thus, in the embodiment of FIG. 3 of the present invention, the output of step 462 (and all subsequent such outputs to a blackjack player) are output from the blackjack driver 26 to the communication interface 22 for queuing until the output can be transmitted to the CGI script 348 that initiated the player request to which this output is a response. Subsequently, the output is transmitted to the World Wide Web server 340 and to the Internet interface 332 for transmitting on the Internet 324 and thereby being routed to the Internet client node 318 where the player is playing blackjack.

Following step 462, in step 466, the blackjack driver 26 enters into the database system 28 information indicating the blackjack tournament in which the player has been entered. Note that the information entered here into the database system 28 is subsequently accessible both by the blackjack driver 26 and the wager accounting module 30 for determining the tournament(s) in which the player has been entered. Following this step, since the player's request has been processed, the flow of control loops back to step 424 to wait for the next player input from a player at an Internet client node 318 or alternatively a gaming station 18.

Returning now to step 448, if the player has not requested to enter a blackjack tournament, then step 470 is encountered

to process any miscellaneous blackjack player requests not related to a current blackjack game and/or blackjack tournament. For example, a player may request accounting information related to his/her blackjack gaming account. Assuming such requests are processed and responded to in this step, the flow of control again returns to step 424 to wait for a next player input.

Returning now to step 436, if the player request is related to a current blackjack and/or blackjack tournament, then step 476 is encountered wherein the blackjack driver 426 uses the player's identification (ID) provided with the request for retrieving any status information from the database system 28 regarding any current blackjack game and/or blackjack tournament in which the player may be currently involved. Subsequently, in step 480, a determination is made as to whether the player request is to commence a new blackjack game in a current tournament. If so, then in step 484 the blackjack driver 26 requests confirmation from the wager accounting module 30 that the player can commence with a new blackjack game in the current tournament. That is, the wager accounting module 30 determines whether the player has sufficient tournament credits to continue in the tournament. Following this, in step 488, the blackjack driver 26 determines whether a confirmation has been received from the wager accounting module 30. If no such confirmation is provided, then in step 492, the blackjack driver 26 outputs a message to the player at his/her Internet client node 318 (gaming station 18) indicating that no further blackjack games in the current tournament may be played by the player.

Alternatively, if in step 488 the blackjack driver 26 receives confirmation from the wager accounting module 30, then in step 494 the blackjack driver 26 creates a blackjack game record for fulfilling the player's request. Note that in creating the new blackjack game data record, the blackjack driver 26 communicates with the wager accounting module 30 to both debit the player's account for any initial ante corresponding to commencing the new blackjack game and also to output to the blackjack driver 26 data of this transaction for subsequently outputting to the player. Following this step, in step 496, the blackjack driver 26 requests the blackjack player evaluator 34 to provide an initial blackjack game configuration for the new blackjack game. Subsequently, in step 500, the blackjack player evaluator 34 responds with an initial blackjack game configuration, wherein this configuration includes the initial card representation for the player's hand (as shown, for example, in area 292 of FIG. 2). Note that this initial card representation is the most recent card representation provided to the blackjack player evaluator 34 by the card generator module 38. Thus, note that if two player requests to commence a new blackjack game were transmitted to the blackjack driver 26 in rapid succession, then step 500 may be performed for each of the requests before the dealer module 38 outputs a new random card representation to the blackjack player evaluator 34. Consequently, in such a case both players will be presented with an identical initial card representation for the player's hand. Subsequently, in step 504, the blackjack driver 26 stores information regarding the identity and initial configuration of the new blackjack game for the player in the database system 28. In particular, a blackjack game identifier for the new game is stored and associated with the identity of the blackjack player and the tournament to which the game is associated. Following step 500, in step 504, the blackjack driver 26 stores information regarding the new blackjack game for the player in the database system 28. In particular, the following information is stored regarding the initial configuration of the new blackjack game: the player's identity, the identity of the tournament for which the new game cor-

responds and identifier identifying the new game and an initial configuration for the new blackjack game including card representations and any initial required bets. Further note that throughout the course of each blackjack game played by a player, the blackjack driver 26 and the wager accounting module 30 update information in the database system 28 as the game configuration changes due to interactions between the player and the blackjack game controller 14. Thus, for a blackjack game underway, each request from a player for continuing the game with a next play, need not provide the entire game configuration to the blackjack game controller 14. Instead, only sufficient information is required in the request for the blackjack driver 26 and/or the wager accounting module 30 to retrieve information related to the blackjack game configuration corresponding to the player's request. Following step 504, in step 508, the blackjack driver 26 outputs an initial blackjack game configuration for the new game to the player at his/her Internet client node 318 (gaming station 18). Subsequently, the flow of control once again returns to step 424 to await a next player input to the controller 14.

Returning now to step 480, if it is determined here that the player request is not to commence a new blackjack game in a current tournament, then step 520 is encountered wherein a determination is made as to whether the player request is related to a play in a currently active blackjack game. If not, then in step 524 the blackjack game controller 14 processes miscellaneous requests such as, for example, a request for special blackjack rules relating to a current game and/or tournament, the number of plays remaining in the current tournament, the player's ranking in the current tournament, and the prizes for winners of the current tournament. Subsequently, assuming such miscellaneous requests are responded to, in step 524, the flow of control for the present flowchart returns to 424 to await a next player input.

Alternatively, if in step 520 the player request is related to a play in a currently active blackjack game, then in step 528 a further determination is made as to whether the player request is for a new card representation. If so, then in step 532 a determination is made as to whether the card request is for the house or for the player. If the card request is from the house, then in step 536 the blackjack driver 26 communicates with the house blackjack playing module 42 for obtaining a new blackjack game configuration for the current blackjack game wherein the new game configuration includes the most recently output card representation from the card generator module 38 as the next card representation in the house hand for the blackjack game from which the current player's request came. Subsequently, in step 542 the house blackjack playing module 42 outputs blackjack game configuration information indicating the new house hand card representation and any player response(s) that the player may exercise in responding to the new blackjack game configuration.

Upon receiving the house blackjack playing module 42 output in step 546, the blackjack driver 26 determines whether there is a further player response in the present game by invoking one or both of the blackjack player evaluator 34 and the blackjack hand evaluator 46. If there are additional possible player responses, then in step 550 the blackjack driver 26 outputs a blackjack game configuration to the player at his/her Internet client node 318 (gaming station 18) so that the player may exercise one of his/her available game options. Subsequently, having processed the player's request, the flow of control again loops back to step 424 to await a next player input. Alternatively, if in step 546 the blackjack driver 26 determines that there are no further possible player responses, then the current blackjack game is complete and the blackjack

driver 26 in step 556 activates the blackjack hand evaluator 46 for evaluating the blackjack game hands so that the blackjack hand evaluator can activate the wager accounting module 30 to update the player's account (according to the results of the blackjack game) in the database system 28. Following this step, in step 560 the wager accounting module 30 outputs to the blackjack driver 26 updated accounting information to be provided to the player. In step 564, the blackjack driver 26 outputs the results of the blackjack game and the player's updated account information to the player. Also, note that the blackjack driver 26 updates the database system 28 regarding the completion of the present blackjack game as well as any further status information related to the player and the tournament to which the present blackjack game is associated. Subsequently, having processed the player's request, the flow of control again loops back to step 424 to await a next player input.

Alternatively, if in step 532 it is determined that the player's request is for a new card representation for the player, then in step 568 the blackjack driver 26 activates the blackjack player evaluator 34 for obtaining a new blackjack game configuration for the current blackjack game wherein the new game configuration includes the most recently output card representation from the card generator module 38 as the next card representation for the player's hand(s). Subsequently, in step 572 the blackjack player evaluator 34 determines the next blackjack play options the player may exercise for the present game and then outputs the new blackjack configuration with these options to the blackjack driver 26. Following this, the steps 546 and subsequent steps are performed as described above.

Returning now to step 528, if the player request is not for a new card representation then step 576 is encountered wherein the blackjack game controller 14 processes other blackjack player game requests such as requests for additional bets, cancellations of bets, a request to stand on a particular player hand, a request to split a pair of card representations, or a request for insurance. Assuming that such requests as described above are processed, in step 580 the blackjack driver 26 subsequently outputs a new blackjack game configuration to the player according to the processing performed in step 576. Also, note that the blackjack driver 26 updates the database system 28 with information relating to the new blackjack game configuration so that it may be retrieved upon a subsequent player request relating to the present game. Following this step, the flow of control for the present flow-chart loops back to step 424 to again wait for another player input.

FIG. 5 presents a simple example of the operation of the present invention for playing blackjack wherein four blackjack games are shown being played asynchronously with the blackjack game controller 14. To describe FIG. 5 in detail, note first that the row of numbers 604 across the top of the figure represents a sequence of values of successive card representations output by the card generator module 38. That is, in a first time interval a card representation having a value of three is output, in a second time interval a card representation having a value of five is output, in a third time interval a card representation having a value of seven is output and so on across the row. Below row 604 are blackjack game rows 606 wherein each blackjack game row 606 represents a series of events that occur in each blackjack game 610 through 626 over the course of time corresponding to the series of card values 604. In particular, the numerical entries within each blackjack game row 606 correspond to the values of the player and house card hands as additional cards are added to the player and house hands of each blackjack game. For

example, referring to blackjack game row 610, assuming this blackjack game commences with the player's hand obtaining the card representation for the leftmost card value of the sequence 604 (i.e., the value three), the player's hand has a corresponding value of three. Subsequently, if the house blackjack playing module 42 is activated for this game to output (i.e., deal) an initial card representation to the house during the second time interval (i.e., the card generator module 38 has output a card representation of five), then the house hand initially has a value of five. Subsequently, if in the third interval the player for blackjack game 610 provides a request for another card, then the card representation corresponding to the value of seven in sequence 604 is provided to the player and therefore the player's hand has a total value of ten. Following the incorporation of the seven into the player's hand, this blackjack game is delayed so that the next time interval corresponding to the value of two in sequence 604 is not dealt to either the player or the house in blackjack game 610. Note that it is an important aspect of the present invention that card representations generated by the card generator module 38 are only incorporated into a particular blackjack game when a request for such a card representation is made during the time the card representation is the most recent output from the card generator module 38. Thus, one or more card representations output by the card generator module 38 during a blackjack game may not be used in the game. More precisely, it is typical (although not shown in the example of FIG. 5) that substantially any length or subsequence of consecutive card representations output by the card generator module 38 may be ignored within a given blackjack game due to time delays occurring in the game. Thus, in some circumstances such delays could be as long as a number of days if the player, for example, did not request another hit during such a time interval.

Continuing now with the remaining plays of blackjack game 610, note that in the fifth time interval the player requests a hit thereby obtaining a card representation having a value of nine and thus obtaining a player's hand value of nineteen. Subsequently, the house takes hits for the next two consecutive card representations having values eight and ten respectively. Thus, the house hand busted when the value of twenty-three was obtained for the house hand.

Blackjack game rows 606 for blackjack games 614 through 626 may be interpreted similarly to the description above for blackjack game 610. Note however that each of these games commence at a different time interval in that each game commences with a different card representation taken as the first hit for the player's hand. That is, the first card representation dealt in each of the blackjack games 610 through 626 is different and further each of the card representations requested corresponding to values of the sequence 604 is different for each blackjack game. Therefore, substantially every blackjack game, even if played concurrently with other blackjack games, will have unique player hands and house hands. Thus, not only can a large number of asynchronous blackjack games be played simultaneously head-to-head with the house, but also there may be a greater degree of confidence by the blackjack players that the house is not manipulating card representations in that blackjack players may substantially determine the timing for substantially all hits in a blackjack game (for both the player hand and the house hand) and thereby reduce any suspicions that the card representations are being manipulated. Moreover, in one embodiment the players may request the sequence of card representations that were generated during the course of a game.

Note that the present invention also may include other blackjack variations as well. In particular, referring to step

416 (FIG. 4A) again, instead of generating card representations at regular intervals, this step may simply activate the card generator module 38 so that it generates a substantially random card representation on demand whenever a request for a new card representation is made (e.g., steps 536 and 568).

Additionally, in another blackjack variation particularly suited for tournament blackjack where each player can be monitored, the players play each play for a blackjack game synchronously as blackjack is typically played with a human dealer in casinos. However, in the present variation each player is provided with the identical card representations for their initial cards. Subsequently, each player hand and the house (i.e., dealer) hand varies between players only when players play their blackjack hands differently. That is, for each synchronously played blackjack game among a plurality of players, the same sequence of card representations is available to each player and the house blackjack playing module 42 so that, for example, the dealt card representations in each game between one of the players and the house blackjack playing module are identical for players playing the same sequence of plays throughout the game. Accordingly, as one skilled in the art will appreciate, for each blackjack game, it may be necessary for the card generator module 38 to maintain a predetermined sequence (or ordered collection) of card representations throughout the game so that layers playing differently may be dealt an appropriately sequenced card representation. Moreover, it may also be necessary for the house blackjack dealer playing module 42 to provide sufficient control information to the card generator module 38 so that the card generator module can respond with the appropriate card representation from the predetermined sequence.

Another embodiment of the present invention is presented in FIGS. 6A and 6B, wherein this embodiment is enhanced for presenting sponsor or advertiser product and/or service advertising to qualified players that adequately match a predetermined player profile such as a demographic profile of a particular group of players. Accordingly, in FIGS. 6A and 6B, there is a game/advertisement controller 604 for providing substantially the same functionality as the blackjack game controller 14 (FIG. 3) except that games other than blackjack may also be played (such as poker, craps, pai gow and roulette). Additionally, the game/advertisement controller 604 also performs functions related to matching particular advertising with the users (i.e., players) playing the various games provided by the game/advertisement web site 308, wherein each user communicates with the web site 308 on a corresponding Internet client node 318 (alternatively interactive cable television node). That is, the present FIGS. 6A and 6B present the high level modules for matching players having desired user characteristics (e.g., profiles) with advertising from sponsors or advertisers requesting players with such user characteristics. In particular, only the players with such desired profiles qualify for receiving a particular advertisement and/or promotional (i.e., advertising) from a particular sponsor or advertiser. Accordingly, it is an aspect of the present invention that various criteria may be used to make such a determination as to which players (or, more generally, users) receive which advertising. For example, one or more of the following attributes may be used in matching users with advertising presentations:

- (8.1) age,
- (8.2) sex,
- (8.3) financial status,
- (8.4) location or residence,
- (8.5) education,
- (8.6) marital status,

- (8.7) amount of recreational time,
- (8.8) personal tastes and/or habits (e.g., smoker/non-smoker, preferences for sports, movies, liquor, foods, clothes, vacations, cars, etc.),
- (8.9) size of household,
- (8.10) number of children, and
- (8.11) categorizations of users according to network interactions such as the type of web sites accessed, the type of advertising for which the user seeks additional information, the risk tolerance in playing games such as blackjack.

To provide (or match) particular users with particular advertising data (or user information items) on each user is maintained in the form of a user profile in the user (player) database 28 which is an enhanced version of the blackjack player registration and playing status database 28 of FIG. 3. The user profiles are populated with such user related information as in (8.1) through (8.11). This information is obtained when users register at the web site 308 when users respond to explicit questions subsequently asked of them, or by monitoring the network activities of users. Note that user profiles may vary in length depending on the amount of information obtained on each user. Moreover, different types of information may be obtained for different types of users. For example, for users having assets of more than one million dollars, these users may be requested to enter their favorite vacation destination location since this may be important for certain advertisers. However, for users whose assets are less than forty thousand dollars, no such information may be obtained since the information would be likely irrelevant to any advertiser. Thus, in one embodiment of the user profiles, each user profile has a variable length section for storing user information items not uniform across all users. Moreover, in such an embodiment, each user information item stored in the variable length section may be considered as a pair wherein the first component of each pair indicates or references a question, user attribute or user classification to which the second component provides an answer or value related to the first component. Thus, for example, for a particular user, an information item may provide the pair: (4, "Madrid"), wherein "4" identifies the attribute: "favorite vacation destination location" and "Madrid" is the value for this attribute, as one skilled in the art will understand.

Alternatively, data related to the advertisers or sponsors may reside in a different database, the advertiser database 612. Accordingly, this database stores demographic profiles which, in one embodiment, have a data structure substantially identical to the user profile data structure. Such demographic profiles may have a variable length section for specifying requested values for user information items that may be provided in (potentially only a relatively small number of) user profiles. In some embodiments, a demographic profile includes a reference to the advertiser's or sponsor's identity, a reference to the advertising to be presented and a variable length section of demographic item pairs wherein the first component of each pair has the same interpretation as the first component of a user information item pair and the second component of the pair specifies a desired value or range of values that the advertiser or sponsor prefers. Further, note that in some embodiments, each demographic item pair may have additional information associated with it such as a perceived importance of the demographic item pair to the advertiser or sponsor. Thus, such additional information may be in the form of a normalized scalar value wherein a value of one indicates that the demographic item pair is of highest importance whereas a value of zero indicates that the demographic item is substantially irrelevant to the advertiser or sponsor.

Accordingly, regardless of the particular embodiment of the demographic profiles, the users' demographic profiles are used to match (i.e., select) one or more corresponding advertising presentations with a particular target group of users that, presumably, are likely to purchase the product and/or service portrayed in such advertising presentations. Thus, since such advertising presentations may be provided to only users who are likely to be subsequent customers, advertisers and/or sponsors may provide to these users specifically targeted advertising having relatively expensive promotionals such as product or service discounts, free samples, or a trial usage.

Accordingly, to perform the selecting or matching of users with such demographic profiles, for each user, the user profiles stored in the user database 28 are compared with the demographic profiles by the advertising selection engine 618. Note that there are numerous techniques for performing such a comparison for selecting a group of users. In particular, a precise match may be required between each demographic item pair and a corresponding user information item pair so that the second component of the user information item pair is (within) a desired range as specified in the corresponding demographic item pair. Alternatively, various weighting statistical techniques may be used for determining a "similarity" measurement when not all demographic pairs are required to precisely match a demographic profile. In one embodiment, the similarity measurement may be provided by a statistical analysis module that determines the users that most closely match the corresponding demographic profile for an advertising presentation. Thus, in order for a user to be selected, the similarity measurement between the user's profile and a corresponding demographic profile may be required to be above a predetermined threshold. Additionally, note that the advertising selection engine 618 may perform the matching of users with advertising presentations as a background or non-real time process so that, for example, for each user profile in the user database 28, there is a related table identifying the advertising presentations that are candidates for presentation to the corresponding user when, for instance, this user communicates with the game/advertisement web site 308.

Moreover, it is important to note that at least in one embodiment of the present invention, the advertising selection engine 618 may, for a particular demographic profile, periodically re-evaluate user profiles in the user database 28 for reselecting the group of users to which an advertising presentation is to be presented. Thus, users previously selected may be requalified or disqualified and users previously disqualified may be now qualified for selection due to, for example, an enhanced user profile.

Accordingly, the present invention may commence or cease transmitting a category of advertising to a user whose user profile is enhanced with additional information. For example, if a user indicates that he/she is currently considering the purchase of a new car, then advertising for purchasing a car may be transmitted to the user. Alternatively, once the present invention is notified that, for example, a car has been purchased or that no further car advertising is desired, then a further enhancement of the user's profile may be performed so that no further advertising from the category of car advertising is transmitted to the user.

Note that the present invention provides for flexibly creating, deleting and modifying categories of advertisements by providing techniques for linking demographic item pairs that are similarly related to a category record or object. Thus, at least the following advertising categories may be provided by the present invention: sports categories (e.g., baseball, soccer, hockey, etc.), food related categories (e.g., restaurants, gro-

cery stores, food items), exercise related advertising (e.g., bicycles, in-line skates, skiing), insurance related advertising (e.g., auto insurance, life insurance), political related advertising (e.g., for or against a particular political candidate), and geographical related advertising (e.g., for users living in a particular area such as the Denver metropolitan area). Thus, the advertising selection engine 618 supplies the selected advertising presentations to the HTML display engine 622 for translating this data so that it may subsequently be included in an HTML output to the user by the common gateway interface 348.

More precisely, the selected advertisement data is joined in the HTML display engine 622 (at least in one operation of the present invention) with a token 628 representing, for example, a gaming card (for a current user game) that has been issued by the token generator (module) 38, this generator being an enhanced version of the card generator module 38 of FIG. 3. The generated token is supplied initially to the game play engine 632 for processing user gaming requests according to the rules of the game being played. That is, the game play engine 632 determines, for each available game: (a) how each token may be "played"; (b) who receives the token, for example, the user or the house playing module 42; and (c) the result of playing the token. Note that in one embodiment, the token generator 38 generates tokens on request by, for example, the house playing module 42 and/or the player options evaluators 34, wherein the tokens generated are appropriate to the game being played. Alternatively, in another embodiment, the token generator 38 may generate random tokens and the game play engine 632 transforms the tokens into appropriate randomized values for the games offered, as one skilled in the art will appreciate. Furthermore, other embodiments for supplying randomized tokens to a plurality of different games are within the scope of the present invention. Additionally, the game play engine 632 contacts the player database 28 to maintain the status of the user in relation to the particular game being played as well as the user's relationship to all of the other users (if, for example, the user is involved in a tournament offered at the game/advertisement web site 308). Note that, as one skilled in the art will appreciate, in one embodiment of the game play engine 632, its internal modules provide a similar architecture and functionality to the correspondingly labeled modules of FIG. 3, albeit additionally for games other than blackjack (e.g., "head-to-head" poker, craps, roulette, and pai gow).

The common gateway interface or CGI scripts 348 transfer data between the HTML display engine 622 and the World Wide Web server 340 which, as one skilled in the art will understand, may be a plurality of high level executable programs as discussed in the description of CGI scripts 348 of FIG. 3. The World Wide Web server 340, in turn, transfers the data to the Internet TCP/IP stack 332 that interfaces with the Internet 324 for transferring the data to an intended Internet client node 318 having an appropriate World Wide Web browser 640.

The present embodiment maintains information on the status of games being played and user responses to advertising in the user database 28. Moreover, additional advertiser specific information (e.g., desired demographic profiles, advertisements, promotionals, and information related to user responses) is provided in the advertiser database 612. Accordingly, as discussed above, the demographic profiles in the advertiser database 612 may include schemes or templates having fields for designating one or more of the attributes (81) through (811). Moreover, the databases 28 and 612 may maintain records of various types of pertinent statistics such as: (a) the advertising presentations presented to each user;

(b) the time, date and number of presentations of a particular advertising presentation; and (c) the detected user responses to the advertising. Thus, this information may provide advertisers or sponsors with enhanced feedback as to the efficacy of their products, services and presentations thereof. Thus, by maintaining data regarding information on: (i) each game played; (ii) the users; and (iii) the advertisers, the host computer 10 may maintain accurate records of every type of pertinent statistics such as: all advertisements seen by all users so that the time, date and number of views are available to the advertiser to confirm and verify e.g. (9 1) through (9 3) following and additionally an advertiser may be able to query the user and advertiser databases 28 and 612 to obtain such feedback as:

(9 1) who has seen a particular advertisement;

(9 2) when it was seen;

(9 3) the number of times the advertisement was accessed;

(a) by any particular user;

(b) by all users; and

(9 4) the number of favorable and/or unfavorable responses

Referring now to FIG. 7, a diagram is presented providing one embodiment of the access routes or paths users navigate in accessing the features of the game/advertisement web site 308. In particular, upon initiating Internet contact with the game/advertisement web site 308, a user is first presented with the opening page 700 identifying the web site 308. Subsequently, the user can access the benefits and registration pages 704 for viewing general information related to web site 308 and also for registering at the web site (as is discussed in further detail below). Alternatively, the user may access one or more "Lobby" pages 708 to view the gaming and information exchange capabilities as, for example, provided by advertisers. Assuming the user is registered at the game advertisement web site 308, the user may proceed from the LOBBY 708 to the game page 710, wherein a game 726 or game rules 730 can be selected for playing, via the introduction to game pages 728. Alternatively, the user may instead access one or more index pages 714 having, for example, listings of organizations to which the user may be allowed to access depending on the affiliations of the user (e.g., a member of a particular membership discount store chain). Additionally, from the index page(s) 714 substantially any user may access an advertisement or promotional provided by an advertiser on an advertiser page(s) 722. However, it is an aspect of the present invention that information related to certain promotionals provided by advertisers or sponsors are restricted. That is, such promotionals may be only presented to users having a demographic profile that has been determined by the present invention to be sufficiently compatible with a desired user profile for the advertiser or sponsor to warrant providing such a promotional. Thus, the present invention provides access to certain advertiser promotionals only to "qualified" users who are, for example, considered likely subsequent purchasers of the advertiser's products and/or services. Additionally, such promotionals may also be presented to users who express an interest in a particular product or service advertised. For example, users who (a) request additional or supplemental information related to an advertised item, or (b) provide a favorable response to such advertising (by, for instance, indicating a preference for an advertised item), or (c) respond to a questionnaire related to personal information or marketing survey information may also be provided with information regarding promotionals. Thus, advertisers or sponsors may offer relatively substantial or expensive promotionals via the present invention to such users as well. Moreover, the present invention may also utilize such demographic profiles to pro-

hibit a user not sufficiently matching such a demographic profile from gaining access to a corresponding promotional. Accordingly, in one embodiment of the present invention, when the user accesses an advertiser page 722, the user's profile (in the user database 28) is compared with the demographic profiles in the advertiser data base 612 for determining any promotionals that can be presented to the user.

Moreover, from the index page 714 the user may be provided with the ability to link into various web sites or web site pages. That is, the user may be provided with the ability to link into another web site or web page at any time a link is made available (typically a hypertext link). Additionally, note that similar links may be accessible by users while playing a game 726. However, these links may generally hyperlink the user to an advertiser page 722 within the game/advertisement web site 308 so that the user may be exposed to further information and/or presented with promotional options for an advertised item. For instance, certain advertising hyperlinks may be integrated into the presentation of plays of a game 726. Accordingly, since an aspect of the present invention is to repeatedly integrate different advertising presentations (and any related hyperlinks) into the play of a game 726, a user may repeatedly be enticed to seek out additional information about different products or services by activating the related hyperlinks. Moreover, it is also an aspect of the present invention that when such hyperlinks provide the user with access to a different web site, that at least a portion of the display of the user's Internet client node 318 maintains a graphical format associated with the game/advertisement web site 308, and that the user may leave and return to the web site 308 without the user being aware of accessing another web site. Moreover, by monitoring user input related to an advertising presentation, the present invention is able to provide feedback to an advertiser as to, for example, the number of times the advertising presentation is accessed by users for such additional information about products or services.

Also note that some advertisements (presented via advertiser pages 722 or as part of a game play presentation) may be interactive with the user wherein the user may perform a transaction such as making a reservation (e.g., an airline or hotel reservation). Further, a user may be given the opportunity to provide positive and negative opinions or responses on, for example, various advertisements, promotionals and other related matters by expressing such responses upon accessing advertisement related information. Thus, it is an aspect of the present invention to be able to conduct "test marketing" in that statistically representative groups of users may be selected for determining:

(10 1) the efficacy or appeal of one advertisement in comparison to another advertisement for a particular advertised item;

(10 2) the profile of the users that are responsive to a particular advertising presentation; and/or

(10 3) whether a particular group of users, for example, having similar user profiles favorably respond to a particular advertising presentation. For example, the present invention may determine such a response: (a) by detecting an activation of a hyperlink, (b) by detecting a response to questions presented and/or (c) by determining the length of time the advertising presentation is displayed or visible.

Accordingly, input response data may be transmitted to the game/advertisement web site 308 and retained for subsequent statistical evaluation. Thus, resulting aggregate statistics can be made available to, for example, advertisers or sponsors thereby preserving the privacy of the users. In particular, statistics may be made available for:

(11.1) providing information about, for example, the efficacy of certain advertising presentations (e.g., the number of positive responses to such presentations and/or the number of advertised items sold directly through the advertisements at the game/advertisement web site 308);

(11.2) providing information related to the number and profile of users accessing certain advertising presentations;

(11.3) determining measurements related to the number of different (groups of) users to which an advertising presentation has been presented;

(11.4) determining the total number of presentations of a particular advertisement;

(11.5) determining the cost of advertising presentations to the advertisers and billing the advertisers for such costs according to, for example, at least one of: (a) the number of users to which an advertisement is presented, (b) the number of promotions requested or (c) the number of network user communications (i.e., hits) with the web site 308;

(11.6) determining if an advertising presentation should be discontinued because the advertiser's cost limits have been reached, such limits being, for example, related to a total number of presentations of an advertising presentation. Note that, in one embodiment, it is an aspect of the present invention to charge an advertiser for each presentation to a user; or

(11.7) determining which of an advertising presentation and a different second advertising presentation (from the same advertiser) is most effective when both are provided to various selected (groups of) users, so that the advertiser or sponsor may then have a basis for choosing the most appropriate of the two advertising presentations in future advertising.

Additionally, it is an aspect of the present invention that it may also maintain statistics (and/or related information) for:

(12.1) providing "real time" game rankings of users (players) involved in a gaming tournament provided by the game/advertisement web site 308. Note that such rankings may be provided to a user so that he/she may know his/her standing and the number of players remaining in the tournament; and

(12.2) providing a "style of personality" of the game playing users so that, for example, a risk tolerance of such users may be estimated and used to determine if a particular user might be interested in a particular product or service. Thus, such "style of personality" statistics for a user may be stored in the user's profile. For example, the information captured here may include: average size of wager, average size of wager in comparison to the total amount that could be wagered, length of time playing in a single session, the ratio of the number of wagers on high risk plays presented, and the skill of the player.

Accordingly, the following aspects of the present invention are noteworthy:

(13.1) the user may be provided with free access or reduced cost access to other areas of the Internet 324 upon viewing the presentations of certain organizations and/or advertisers. Note that the ability to reduce the cost of accessing the Internet may act as a vehicle for attracting various users;

(13.2) the index page 714 gives a user the opportunity to access a particular organization (e.g., organizations 718) that the user may belong to or any particular advertiser (e.g., advertisers 722) without going through any games although the user may be required to go through the "LOBBY" page(s) 708 and thereby be exposed to advertising and/or the opportunity to join a game;

(13.3) a user may also be able to go from an initial organization page 718 to an introductory game page 728 (e.g., for a game 726) but, unless authorized, may not be provided with further access to the organization's web pages or the game;

(13.4) while playing a game 726, the user has the ability to access further information related to an advertisement or promotional being presented;

(13.5) during the playing of a game 726 (e.g., blackjack), the user may be allowed to review and/or stepwise replay a previous portion of a game 726 during a current gaming session;

(13.6) when in a particular organization page 718, the user may be required to return to the index page 714 before linking into an advertiser 722 unless a direct link has been provided for some reason on the particular organization web page. Moreover, the user may access the game page 710 from the index page 714 and vice versa;

(13.7) a user may either go directly into playing a particular game 726 (as authorized) or to a rules section 730 for reviewing the rules for the corresponding game 726. Note that a user may always access the rules section 730 during the corresponding game 726;

(13.8) there is a help feature for providing information such as:

- a) how to do some particular action or the reason for some action or the reason an action is blocked. For example, the reason for an inability to access a certain web page, the reason for an inability to make a particular game play such as a bet, stand or hit in the game of blackjack and/or the reason for a particular result of a certain bet hit stand or other user play in a game such as blackjack;
- b) for contacting a gaming referee for resolving gaming conflicts. Such a referee will be available to resolve any dispute. Note that the user can notify the management operating the present invention of a problem via, for example, notification forms displayed when a notification button is activated.

Referring now to an alternative embodiment of the present invention presented in FIG. 8, wherein the game/advertisement web site 308 coordinates with a third party Internet access service provider 810 (or interactive cable television provider) for providing Internet 324 (cable television) access to users on a reduced cost or free basis once a user has registered with the web server 340 (cable television provider). That is, the game/advertisement web site 308 contacts the user's Internet service provider 810 and arranges to subsidize the user's Internet service charges in return for the gaming advertisement web site 308 being able to repeatedly download to the user's Internet client node 318 (or alternatively, interactive cable television node) unrequested information such as advertising for presentation to the user.

Accordingly, a prospective user of the present invention can sign up or register with the game/advertisement web site 308 for reduced Internet service fees by dialing into an Internet service provider 810 with normal serial dialing and after gaining Internet access, subsequently log on to the web site 308 as a user identified by the generic user identifier "NEW". Each user identified by "NEW" is forced into a connection with an enrollment or registration program so he/she can provide information requested by the present invention that can subsequently be used in determining which advertising to present to this user according to, for example, advertiser preferences. Thus, when registration is completed, the present embodiment of the invention downloads, for example, an ad viewer program 812 and a communications daemon (e.g., ad receiver daemon 806) to the user's Internet client node 318 wherein this daemon allows the game/advertisement web site 308 to download to the user's Internet client node 318 unrequested information such as advertising repeatedly. Accordingly, assuming the daemon 806 is installed, the user may access not only the gaming and advertisement ser-

29 vices of the web site 308, but also access substantially the entire Internet through the web site 308 at a reduced cost. Thus, whenever the end user processor 318 connects with the Internet service provider 810, the game/advertisement web site 308 is alerted by the Internet service provider 810 and the DISPLAY ENGINE 622 starts up the downloaded daemon 806 via Internet communications with the user's Internet client node 318. Subsequently, the DISPLAY ENGINE 622 periodically sends selected advertising to the daemon 806. Accordingly, the daemon 806 utilizes the ad viewer program 812 to coordinate the display of the advertising presentation.

Note that various alternative embodiments related to the architecture and functionality of FIG. 8 are also within the scope of the present invention. For example, instead of communicating with a plurality of third-party Internet service providers 806 for determining when users registered with the present invention are accessing the Internet via subsidized Internet connections, the game/advertisement web site 308 may include or be related to a dedicated Internet service provider 806 so that when a user registers with the present invention, the user is provided with a new Internet access code for the dedicated Internet service provider 806 and the user's Internet access fees may be subsidized.

However, regardless of how the present invention subsidizes Internet access, the game/advertisement controller 604 is notified whenever each subsidized user connects to the Internet or disconnects from the Internet. Additionally, certain reliability features are included in the daemon 806 and ad view program 812 for assuring that advertising is indeed presented to the user. For example, there may be periodic transmissions from each subsidized user's Internet client node 318 to the web site 308 verifying that both the daemon 806 and the ad view program 812 are active. Note that whenever any advertising is received at the user's Internet client node 318, the daemon 806 transfers the advertising to the ad viewer program 812 which, in turn, converts the transmitted information to a displayable format and forces the display of the user's Internet client node 318 to present the advertising unobscured to the user.

Additionally, note that in certain contexts the DISPLAY ENGINE 622 may transmit a message to an Internet Service Provider 806 indicating that no further Internet access will be subsidized due to a predetermined number of advertising presentation display failures.

An additional and/or alternative description of the embodiment of the present invention shown in FIGS. 8A and 8B is as follows: users may use the present invention to access the INTERNET 324 on a reduced cost or free basis, by using whatever TCP/IP SLIP/PPP package they desire and registering with the web server 308. That is, a user can sign up or register by dialing into a terminal server with normal serial dialing and log on as a user identified by the identifier "NEW." User "NEW" is then forced into a connection to an enrollment or registration program so he/she can provide information requested by the present invention. When enrollment is completed, the present invention allows the user to download a communications daemon (e.g., ad receiver daemon 806) to the user's Internet client node 318. The user may then install the daemon on their machine (Internet client node 318) and dial-up with their favorite TCP/IP package.

However, upon accessing the host 308, the user accesses basic functionality of the DISPLAY ENGINE 622 that starts up the downloaded daemon 806. The network host 308 periodically queries each active port on the terminal servers (e.g., Internet client node 318) to get the IP addresses and then send a short message to the daemon 806 which is listening in on a

specific port. The DISPLAY ENGINE 622 may also disable access by an end user machine 318 after a certain number of failures.

Note that the host 308 periodically sends an item to the downloaded daemon 806 to display. The daemon then displays the message (advertisement) in a window (of the WWW browser 640) on the user's screen.

The foregoing discussion of the invention has been presented for purposes of illustration and description. Further, the description is not intended to limit the invention to the form disclosed herein. Consequently, variation and modification commensurate with the above teachings, within the skill and knowledge of the relevant art, are within the scope of the present invention. The embodiment described hereinabove is further intended to explain the best mode presently known of practicing the invention and to enable others skilled in the art to utilize the invention as such, or in other embodiments, and with the various modifications required by their particular application or uses of the invention.

What is claimed is:

1. A method of advertising on the Internet, wherein:

for each of one or more users accessing the Internet in a corresponding Internet connection for the user, the following occur during said corresponding Internet connection:

a request, from the user, is transmitted on the Internet, via a user node, for contacting a providing node of the Internet, said providing node provides access to information for an interactive service, wherein said request has associated therewith an Internet address that identifies the providing node, and wherein said interactive service is interactive on the Internet with the user;

the user node receives, via the providing node, said information for said interactive service;

wherein two or more display presentations from the information are presented on at least a portion of a display of the user node, wherein at least two of said display presentations are successively displayed, and there is a user input to one of said at least two display presentations, P₁, wherein for the user input, there is a transmission on the Internet to which a latter one of said at least two display presentations, P₂, is a response;

overlapping with a display of said one of the display presentations, P₁, at the user node is a display of a first one or more advertising presentations for providing information related to one or more of a product and a service, wherein said first one or more advertising presentations are received via the Internet, in response to Internet transmissions by the providing node, and displayed on at least a portion of said display during the presentation of the two or more display presentations at the user node; one or more additional advertising presentations are presented at the user node following the first one or more advertising presentations, each said additional advertising presentation for providing information related to one of a product and a service, wherein at least one of said additional advertising presentations is:

(a) received at the user node, via the Internet, in response to Internet transmissions by the providing node during the presentation of the two or more display presentations;

(b) displayed on at least a portion of said display without the user providing an input, (i) for which a consequence includes the presenting of said additional advertising presentations, and (ii) for which said first advertising presentations are not a consequence; and

(c) provides Internet addressing information for obtaining additional information about one or more purchasable products or purchasable services, comprising: activating one or more programmatic elements at the providing node for combining: (1) the information for the interactive service; and (2) advertising related information for use in presenting one of: (i) the first advertising presentations; and (ii) the additional advertising presentations; and transmitting a resulting combination of (1) and (2) on the Internet to the user.

2. A method of advertising on the Internet, wherein an activation request is received from an Internet accessible user node for activating an instance of an interactive service accessible via the Internet; wherein the user node interactively communicates with the instance for receiving all service transmissions from the instance transmitted to the user node that occur on a first Internet connection, said service transmissions having a plurality of instance presentations transmitted to the user node via the first Internet connection, said instance presentations interleaved with one or more responsive user communications, from the user node to said interactive services that are in response to service content presented to the user; comprising:

first providing a sequence of advertising presentations to a user at said user node, wherein said sequence is transmitted on the first Internet connection during a total elapsed time for said service transmissions, wherein each advertising presentation of said sequence identifies at least one of a purchasable product and a purchasable service;

wherein an advertising presentation AP_1 of said sequence is presented as a consequence of one or more particular communications on the first Internet connection between said Internet accessible service node and the user node, wherein one of the particular communications includes information for one of the instance presentations for the interactive service combined with advertising related information for use in displaying at least AP_1 ;

wherein for said advertising presentations transmitted in said step of first providing, (a) and (b) following hold:

(a) there is at least a second advertising presentation, AP_2 of said sequence, wherein (i) a presenting of AP_2 to the user is purposefully delayed after a presentation of AP_1 , and (ii) there is no user input that is both: (1) after a last of said particular communications and (2) during the total elapsed time for the service transmissions, for which a consequence includes the presenting of AP_2 ;

(b) presentations of AP_1 and AP_2 provide no content that affects said responsive user communications; wherein at least one of AP_1 and AP_2 includes link data such that when said link data is activated by a user input to said at least one of AP_1 and AP_2 , data indicative of said user input is transmitted, via the first Internet connection, to a network node identified by said link data; and obtaining information related to an efficacy of one or more of the advertising presentations presented to the user, including determining information related to a number of advertised items that are sold through the one or more advertising presentations.

3. The method of claim 2, wherein said particular communications includes an Internet transmission from said Internet accessible service node to the user node, further including the steps of:

transmitting, via the first Internet connection, information for storing at the user node; and receiving, via a second Internet connection, data indicative of the information stored on the user node for providing a subsequent transmission to the user node, wherein the second Internet connection is established after a termination of the first Internet connection; wherein the data indicative of the information stored on the user node is utilized in providing the user with access to the interactive service on the second connection by the user node.

4. The method of claim 3, wherein said step of first providing is dependent upon an Internet transmission by the user node that is responsive to said particular communications.

5. The method of claim 2, further including a step of receiving a request to activate said instance at least partially in exchange for said sequence of advertising presentations being displayed at the user node.

6. The method of claim 2, wherein at least said advertising presentation AP_2 is unrequested.

7. The method of claim 2, further including a step of forcing at least one advertising presentation of said sequence of advertising presentations to be presented to the user so that the at least one advertising presentation is unobscured when presented.

8. The method of claim 2, wherein said link data includes an Internet address.

9. A method for advertising on a communications network comprising:

for each of a plurality of network users, each having a corresponding user network node, steps (A) through (K) following are performed:

(A) first receiving, at a service providing source accessed via predetermined address information indicative of a predetermined address on the network, a transmission on a first connection to the network by the user's corresponding user node, wherein the transmission is for activating a service for providing a plurality of service presentations;

(B) activating the service for interactively communicating with the user via transmissions on the network between the user node and said service providing source;

(C) first transmitting on the communications network, from said service providing source and in response to the service providing source receiving the transmission, service data of the service for presenting at the user node;

(D) second receiving, by the service, responsive data obtained from at least one network transmission, T_1 , corresponding to an input by the user to one of the service presentations corresponding to said service data at the user node;

(E) determining second service data by the service as a response to said responsive data, wherein context data having information indicative of one or more previous user interactions with the service is accessed;

(F) second transmitting on the communications network, from said service providing source, the second service data for presenting a corresponding one of the service presentations at the user node;

wherein the steps (G) through (K) following are performed for providing advertising to the user when the user establishes a subsequent second connection to the network for communicating with the service by providing the predetermined address information to the network, wherein the second connection to the network is established after the first connection to the network is terminated:

- (G) identifying advertising related data for presenting advertising of one or more of a purchasable product or a purchasable service for one of a plurality of advertisers;
- (H) determining third service data of the service, said third service data determined using the context data, said third service data being for a corresponding one of the service presentations, SP;
- (I) combining the advertising related data and the third service data resulting in combined data;
- (J) third transmitting, on the communications network and from the service providing source, the combined data, the combined data for presenting at the user node a combined presentation of the corresponding one service presentation, SP and an advertising presentation corresponding to the advertising related data, wherein the advertising presentation has predetermined network link data associated therewith such that the link data is activated by a user input to the advertising presentation resulting in a corresponding network transmission of data indicative of said user input being transmitted to a predetermined network site, the network site being different from the service providing source; and
- (K) receiving access information indicative of the advertising presentation being accessed by the user, wherein the access information is used in deriving advertising effectiveness information which is subsequently made available to the one advertiser.
- 10 The method of claim 9, wherein said identifying step includes selecting the advertising related data based on profile data for the user.
- 11 The method of claim 10, wherein the one advertiser provides profile selection information for selecting the user based on a correspondence with the user's profile data.
- 12 The method of claim 11, wherein the profile data includes information for a geographic location related to the user.
- 13 The method of claim 11, wherein the profile data includes information of a personal preference of the user.
- 14 The method of claim 11, wherein the profile data includes information indicative of an age of the user.
- 15 The method as claimed in claim 9, wherein the service includes a playing of a game, wherein said game is played according to a predetermined set of rules, and said game is at least one of: a game of chance, a game having an opponent, and a game having a total number of possible distinct game plays that is capable of being determined before playing the game.
- 16 The method of claim 15, wherein said context data includes a representation of a configuration of a game for indicating a next play of the game.
- 17 The method of claim 9, further including a step of changing a speed of play of a game according to said responsive data.
- 18 The method of claim 9, further including a step of selecting the advertising related data by identifying a correspondence between: (i) user selection information for the one advertiser, and (ii) information about the user obtained from the user in a previous connection to the network.
- 19 The method of claim 9, further including a step of receiving financial information related to a financial status of the user, wherein said financial information is used in determining whether a subsequent input by the user to the service is acceptable.
- 20 The method of claim 9, wherein said responsive data includes a wager.

21. The method of claim 9, further including a step of qualifying the user for viewing a particular presentation wherein a financial status of the user is matched with predetermined financial criteria.
- 22 The method of claim 9, wherein said first transmitting step includes:
- transmitting, via the first connection, information for storing at the user node; and
 - receiving, via the second network connection, data indicative of the information stored on the user node for providing a subsequent transmission to the user node.
- 23 The method of claim 22, further including:
- providing the user node with network access as a result of receiving said data indicative of the information stored on the user node.
- 24 The method of claim 23, further including a step of selecting one of first and second advertising related data as the advertising related data.
- 25 The method of claim 9, said context data includes one or more of: a credit limit and a current amount of funds available to the user.
- 26 The method of claim 25, wherein at least one of said first and second transmitting steps includes transmitting a representation of a game token to the user.
- 27 The method of claim 26, further including a step of storing information effective for ranking the user with other users communicating with an instance of the service.
- 28 The method of claim 22, wherein said second transmitting step includes transmitting information to the user node for determining whether a predetermined program is active for processing additional advertising information of said data so that said additional advertising information is presented to the user.
- 29 The method of claim 9, further including downloading to the user node a program for presenting unrequested advertising to the user via the user node.
- 30 The method of claim 9, wherein for one or more advertising presentations, presented to at least some of the plurality of users, a further step of determining data indicative of a number of hyperlinks activated corresponding to the one or more advertising presentations by said at least some of the plurality of users.
- 31 The method of claim 9, wherein for one or more advertising presentations, presented to at least some of the plurality of users, a further step of determining data indicative of a number of advertised items sold to said at least some of the plurality of users wherein said advertised items are available for purchase via the one or more advertising presentations.
- 32 The method of claim 9, further including:
- collecting information about the user, wherein said information about the user is obtained from user node transmissions on the network corresponding to input provided by the user to the user node;
 - wherein said step of collecting includes monitoring user communications on the network with other network accessible nodes for obtaining the information about the user; and
 - wherein the service providing source operates substantially independently of at least most of the other network accessible nodes.
- 33 The method of claim 9, further including a step of obtaining information about the user including data indicative of most of the following: a name, an address, an e-mail address, an age, a financial status, an educational level, a marital status, an amount of recreational time, personal tastes, and a gender.

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34 The method of claim 9, wherein said second transmitting step includes transmitting via the network information for storing at the user node, wherein said stored information is utilized in providing the user with access to the service on the second connection by the user node

35 The method of claim 34 further including: a step of receiving identification information at said service providing source; and providing the user node with network access to the service as a result of receiving said identification information

36 The method of claim 9, further including a step of communicating with the user node for detecting an activation of a predetermined program on the user node, wherein said predetermined program is used in presenting unrequested advertising to the user

37 The method of claim 9, wherein the network includes a plurality of smaller networks connected together for providing communications therebetween, and the network has one or more of the following characteristics:

- (i) the network has a common address space such that for each node N accessible by the network, there is a common address for N by which N can be accessed regardless of which one of the smaller networks contains N, and regardless of a source on the network for requesting a communication with N;
- (ii) the network is able to support communications using the Internet Protocol (IP); and
- (iii) the network provides communication access to substantially all publicly contactable e-mail addresses

38 The method of claim 37, further including: presenting to the user the advertising presentation, wherein said the presentation of the second advertising presentation does not change the user's interactions with the service presentations

39 The method as claimed in claim 9, wherein the service includes a playing of a game, wherein said game is played according to a predetermined set of rules, and said game is at least one of: a game of chance, a game having an opponent, and a game having a total number of possible distinct game plays that is capable of being determined before playing the game; and

wherein the step of combining includes joining the advertising related data with information for a game play having at least representation of a token for the game

40 The method of claim 9, wherein said identifying step includes selecting the advertising related data based on profile data for the user

41 The method of claim 40, wherein the one advertiser provides profile selection information for selecting the user based on a correspondence with the user's profile data

42 The method of claim 41, wherein the profile data includes information for a geographic location related to the user

43 The method of claim 41, wherein the profile data includes information of a personal preference of the user

44 The method of claim 41, wherein the profile data includes information indicative of an age of the user

45 The method of claim 9, wherein said first responsive data includes a wager

46 The method of claim 9, wherein the step (G) of identifying includes selecting the advertising related data using information obtained from user responses to the service

47 The method of claim 9, wherein the service includes one or more of providing access to a plurality of organizations providing access to a plurality of promotionals and providing access to a plurality of games

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48 The method of claim 1, further including receiving access information indicative of one or more advertising presentations from at least one of: (1) the first one or more advertising presentations, and (2) the one or more additional advertising presentations being accessed by the user, wherein the access information is used in deriving advertising effectiveness information

49 The method of claim 1, further including: transmitting, via the Internet, data related to communications between: (a) the interactive service; and (b) the user;

wherein the transmitting step results in first information being stored on the user node so that it is available in a subsequently established Internet connection session by the user at the user node; and

after the user node has established the subsequent Internet connection session, a step of receiving for the interactive service, a responsive Internet transmission indicative of the first information being present on the user node

50 The method of claim 1, further including selecting the advertising related data based on profile data for the user

51 The method of claim 50, further including a step of receiving selection information from an advertiser for selecting the user based on a correspondence between the selection information and profile data

52 The method of claim 51, wherein the profile data includes information indicative of a geographic location related to the user

53 The method of claim 1, further including the steps (A) through (D) following, when the user establishes a subsequent second Internet connection for re-establishing communications with the interactive service, wherein the second Internet connection occurs after the corresponding Internet connection is terminated:

(A) identifying advertising related data for presenting advertising for one or more of a purchasable product or a purchasable service for at least one advertiser;

(B) determining additional service information for the interactive service, the additional service information determined using context data indicative of one or more previous user interactions with the interactive service during the corresponding Internet connection;

(C) combining the advertising related data and the additional service information resulting in combined data; and

(D) second transmitting the combined data to the user node

54 The method of claim 53, wherein the combined data is for presenting at the user node a combined presentation of a corresponding presentation for the interactive service, and an advertising presentation corresponding to the advertising related data, wherein the advertising presentation has predetermined Internet link data associated therewith such that the link data is activated by a user input to the advertising presentation resulting in a corresponding Internet transmission of data indicative of said user input being transmitted to a predetermined Internet site

55 The method of claim 1, further including a step of receiving access information indicative of an advertising presentation being accessed by the user;

wherein the advertising presentation is displayed at the user's node as a result of the user's node receiving the resulting combination of (1) and (2); and

wherein the access information is used in deriving advertising effectiveness information

56 The method of claim 1, further including a step of receiving financial information related to a financial status of

the user wherein said financial information is used in determining whether a subsequent input by the user to the interactive service is acceptable

57 The method of claim 1 further including:

transmitting via the corresponding Internet connection, data for storing at the user node; and

receiving, via a subsequent connection to the Internet, a transmission indicative of the data stored on the user node

58 The method of claim 1, wherein for one or more advertising presentations from at least one of: (1) the first one or more advertising presentations, and (2) the one or more additional advertising presentations, the one or more advertising presentations are presented to at least some of the plurality of users and a further step of determining data indicative of a number of hyperlinks activated corresponding to the one or more advertising presentations by said at least some of the plurality of users

59 The method of claim 1, wherein for one or more advertising presentations from at least one of: (1) the first one or more advertising presentations and (2) the one or more additional advertising presentations, the one or more advertising presentations are presented to at least some of the plurality of users and a further step of determining data indicative of a number of advertised items sold to said at least some of the plurality of users wherein said advertised items are available for purchase via the one or more advertising presentations

60 The method of claim 1, further including:

collecting information about the user, wherein said information about the user is obtained from user node transmissions on the Internet of input provided by the user to the user node for visiting other Internet accessible nodes;

wherein said step of collecting includes monitoring user communications on the network with the other Internet accessible nodes; and

wherein the providing node operates substantially independently of at least most of the other Internet accessible nodes

61 The method of claim 1, further including a step of communicating with the user node for detecting an activation of a predetermined program on the user node, wherein said predetermined program is used in presenting unrequested advertising to the user

62 A method for advertising on a network to each user of a plurality of network users, each user using a corresponding user's node for communicating on the network, comprising: performing steps (A) through (D), for each of the users;

(A) receiving, by an advertising presentation node accessed via predetermined address information indicative of a predetermined address on the network, one or more transmissions from the user;

(B) determining from a plurality of advertising related information items for a plurality of advertisers, one or more advertising information items, each of the one or more advertising information items for presenting, to the user, information related to a purchasable product or purchasable service of a corresponding one of the advertisers;

wherein each of said one or more advertising information items includes corresponding predetermined network address information for accessing a corresponding network node providing additional information related to one or more purchasable products or purchasable services for the corresponding advertiser;

(C) transmitting by said advertising presentation node said one or more of the advertising information items to the user;

(D) for each of a first and second of the advertisers, a step of obtaining corresponding access information indicative of an access of the corresponding network node for at least one of the advertising information items presented to the user for the advertiser;

(E) for each of the first and second of the advertisers, obtaining corresponding advertising effectiveness information indicative of an effectiveness of the at least one advertising information item for the advertiser wherein said corresponding advertising effectiveness information is obtained from the corresponding access information obtained from the plurality of users; and

(F) providing each of the first and second advertisers with their corresponding advertising effectiveness information

63 The method of claim 62 further including:

transmitting first information for storing on the corresponding user node for the user so that the first information is available in a subsequently established network connection session by the user at the corresponding user node after a network connection for the one or more transmissions has been terminated; and

after the corresponding user node for the user has established the subsequent network connection session a step of receiving a responsive network transmission indicative of the first information being present on the corresponding user node for the user

64 The method of claim 62, wherein the obtaining step of (D) includes receiving information related to one of: (i) whether the at least one advertising information item for the first advertiser has been presented to the user previously, and (ii) a time when the at least one advertising information item for the first advertiser was presented to the user

65 A method of advertising on the Internet, comprising: first receiving an activation request from an Internet accessible user node, for activating an instance of an interactive service accessible via an Internet contact with an Internet accessible service node wherein the service node is identified by service node network address information input by a user of the user node;

wherein the user node interactively communicates with the instance of the service for receiving a plurality of service transmissions from the instance via a first Internet connection, said service transmissions for transmitting a plurality of presentations for the instance to the user node via the first Internet connection, said presentations interleaved with one or more responsive user communications from the user node to said instance of the service; first transmitting a sequence of advertising presentations to the user at said user node, wherein said sequence is transmitted on the first Internet connection during an elapsed time for said service transmissions, wherein each advertising presentation of said sequence is for identifying at least one of a purchasable product and a purchasable service;

wherein an advertising presentation, AP₁, of said sequence is presented as a consequence of one or more particular communications on the first Internet connection between said service node and the user node, said particular communications being transmitted separately of all service transmissions from the instance to the user node;

wherein AP₁ is presented to the user during at least one transmission of said service transmissions;

wherein for said advertising presentations transmitted in said step of first transmitting, (a) and (b) following hold:

(a) there is at least a second advertising presentation, AP₂, of said sequence wherein: (i) a presenting of AP₂ to the user is purposefully delayed after a presentation of AP₁, and (ii) the presenting of AP₂ is not in response to a user input between the presentation of AP₁ and the presentation of AP₂;

(b) presentations of AP₁ and AP₂ are substantially unrelated to said responsive user communications;

wherein at least one of AP₁ and AP₂ includes link data such that when said link data is activated by a user input to said at least one of AP₁ and AP₂, data indicative of said user input is transmitted, via the first Internet connection, to a network node identified by said link data;

wherein a subsequent presentation for presenting to the user is received at the user node and from the network node via the first Internet connection, wherein said subsequent presentation is determined using said data indicative of user input, said subsequent presentation also identifying one of a purchasable product and a purchasable service; and

wherein said subsequent presentation is presented to the user during the first Internet connection.

66 The method of claim 65 wherein said sequence is transmitted from said Internet accessible service node.

67 A method of communicating with a service providing node of the Internet comprising:

for each of one or more users accessing the Internet, the following steps (A) through (D) are performed:

(A) first receiving from the user via a corresponding Internet user node, a request on the Internet for contacting a service providing node of the Internet, said service providing node providing access to two or more display presentations for a service, and said service providing node being one of a plurality of nodes of the Internet each having a corresponding Internet address to which the user has Internet access independently of the other of the plurality of nodes, wherein said request has associated therewith the Internet address of a terminal destination for identifying the service providing node, and wherein said service is interactive on the Internet with the user;

(B) transmitting via the Internet, data related to communications between the service providing node, and the user;

wherein the transmitting step results in first information being stored on the user node so that it is available in a subsequently established Internet connection session by the user via the user node;

(C) after the user node has established the subsequent Internet connection session, a step of second receiving for the service, an Internet transmission indicative of the first information being present on the user node; and

(D) outputting one or more Internet transmissions on the subsequent Internet connection session for presenting particular display presentations for the service;

wherein said particular display presentations for the service are presented on at least a portion of a display of the user node wherein the particular display presentations are successively displayed, and there is a user input to one of the particular display presentations P₁ for the service, the user input resulting in a transmission on the Internet to the service providing node, and to which a subsequent one of the display presentations P₂, is a response;

wherein first advertising related information is received by the user node via the subsequent Internet connection session as a consequence of Internet transmissions by the service providing node for displaying the particular display presentations wherein the first advertising related information is combined, prior to transmission to the user node, with information for displaying the particular display presentation P₁, said first advertising related information replaceable with alternative information without changing a content; (i) of the particular display presentation P₁, and (ii) to which the user input is responsive for the service;

wherein one or more additional advertising presentations are presented at the user node after presentation of a first advertising presentation corresponding to the first advertising related information, each said additional advertising presentation being for providing information related to one of a product and a service wherein at least one of said additional advertising presentations is received by the user node as a consequence of Internet transmissions by the service providing node;

wherein an action by the user in response to an advertisement being one of: said first advertising presentation and one of said additional advertising presentations, results in resulting data being transmitted via the Internet, wherein said resulting data is transmitted: (a) from said user node, and (b) to a terminal destination node of the Internet, said destination node identified at said user node by destination Internet link information received with the advertisement;

wherein a response to the action by the user is received at the user node via the Internet, the response providing another presentation for presenting to the user at said user node.

68 The method of claim 67 wherein the service includes a playing of a game, and said step of outputting include a step providing one of the display presentations with wager related information.

69 The method of claim 67 wherein the service includes a playing of a game, and further including a step of changing a time limit for accepting an input from the user when the user desires to change a speed of the game.

70 The method of claim 67 wherein the service includes a playing of a game, and further including a step of providing the user with a game play ranking of a second of the users.

71 The method of claim 67 wherein the service includes providing access to predetermined Internet sites Internet.

72 The method of claim 67 further including obtaining information related to Internet interactions by the user, including information related to websites visited by the user.

73 The method of claim 67, further including obtaining information related to Internet interactions by the user, including information related to advertising for which the user requests additional information.

74 The method of claim 67 further including determining a risk tolerance of the user using information indicative of Internet communications by the user.

75 The method of claim 67 further including obtaining information related to an efficacy of one or more advertising presentations presented to the users, including determining information related to a number of advertised items that are sold through the one or more advertising presentations.

76 The method of claim 67 further including: obtaining profile information for the user for use in presenting at least one advertising presentation of the first advertising presentation and additional advertising presentations;

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transmitting the at least one advertising presentation for presenting to the user;

subsequently enhancing the profile information to reflect additional or different user information for use in presenting to the user a subsequent at least one of the additional advertising presentations; and
 wherein the enhancement of the profile information contributes to a determination of the subsequent at least one advertising presentation.

77 The method of claim 76, wherein the enhancing step includes selecting a question to present to the user wherein the selecting is dependent upon the profile information previously obtained.

78 The method of claim 67, wherein the service includes a playing of a game, and further including:

storing wager related information indicative of previous wagers by the user when playing the game; and
 using the wager related information for determining one of: an acceptability of another wager requested by the user, and one of the first and additional advertising presentations.

79 The method of claim 67 further including:

detecting an activation of the destination Internet link information; and
 using the detection for determining an efficacy of the one advertising presentation.

80 A method for providing product or service information while interacting with an informational service via the Internet, comprising:

performing the following substeps (A1) through (A4) for each of a plurality of Internet user nodes, after each user node has established a corresponding Internet connection session providing access to a plurality of Internet sites for contacting a plurality of informational services:

(A1) first receiving, at one of the Internet sites for accessing one of the informational services, a request on the Internet corresponding to an input by a user to the user node to access the one informational service, wherein the user node uses the user input to identify the one Internet site as a termination destination for an Internet transmission providing the request;

(A2) transmitting, via the Internet, data between: (a) the one informational service and (b) the user;

wherein the transmitting step results in first information being stored on the user node so that it is available in a subsequently established Internet connection session by the user at the user node;

(A3) after the user node has established the subsequent Internet connection session, a step of second receiving for the one first informational service, a responsive Internet transmission indicative of the first information being present on the user node;

(A4) providing to the user node, a plurality of Internet transmissions for presenting to the user corresponding service related information for the one informational service wherein between each of at least some of the plurality of Internet transmissions, there is a corresponding responsive Internet transmission from the user node to the one informational service, said corresponding responsive Internet transmission being dependent upon a presentation to the user of the corresponding service related information of a previous one of the Internet transmissions;

wherein for one or more of the at least some Internet transmissions in addition to including their corresponding service related information, each of the one or more of the at least some Internet transmissions includes cor-

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responding advertising related information combined with service related information prior to transmission to the user node, said corresponding advertising related information replaceable with alternative information without changing a content of the corresponding service related information to which the user responds with the corresponding responsive Internet transmission;

wherein when presenting a content for each of the one or more of the at least some Internet transmissions to the user, a corresponding advertisement obtained using the corresponding advertising related information is presented to the user, wherein the corresponding advertisement provides information to the user: (i) related to one or more purchasable products or purchasable services and (ii) that allows the user to perform an Internet transmission T for obtaining additional information about one or more purchasable products or purchasable services.

81 The method of claim 80, wherein the one informational service includes a playing of a game and said step of providing includes a step of providing wager related information to the user.

82 The method of claim 80 wherein the one informational service includes a playing of a game, and further including a step of changing a time limit for accepting an input from the user when the user desires to change a speed of the game.

83 The method of claim 80 wherein the one informational service includes a playing of a game, and further including a step of providing the user with a game play ranking of a second of the users.

84 The method of claim 80 wherein the one informational service includes providing access to predetermined Internet sites.

85 The method of claim 80, further including obtaining information related to Internet interactions by the user including information related to websites visited by the user that are different from the one Internet site.

86 The method of claim 80, further including obtaining information related to Internet interactions by the user including information related to advertising for which the user requests additional information, wherein the additional information is obtained in response to the Internet transmission T, which has as a terminal Internet address for a second of the Internet sites, the second Internet site being different from the one Internet site.

87 The method of claim 80, further including determining a risk tolerance of the user using information indicative of Internet communications by the user, wherein the communications are related to the user losing something of value.

88 The method of claim 80, further including obtaining information related to an efficacy of one or more advertising presentations presented to the users, including determining information related to advertised items that are sold from accessing the one or more advertising presentations by activating hyperlinks therefor.

89 The method of claim 80, further including: obtaining profile information for the user for use in determining at least one of the corresponding advertisements; subsequently, enhancing the profile information to reflect additional or different user information for use in presenting to the user a subsequent at least one advertisement; and determining the subsequent at least one advertisement to transmit to the user;

wherein the enhancement of the profile information contributes to the determination of the subsequent at least one advertisement.

90 The method of claim 89 wherein the enhancing step includes selecting a question to present to the user wherein the selecting is dependent upon the profile information previously obtained

91 The method of claim 80, wherein the one informational service includes a playing of a game, and further including: storing wager related information indicative of previous wagers by the user when playing the game; and using the wager related information for determining one of: an acceptability of another wager requested by the user, and one of the advertisements for an instance of the advertising related information

92 The method of claim 80, further including: detecting an activation by the user of Internet link information for generating the Internet transmission T; and using the detection for determining an efficacy of the corresponding advertisement providing the Internet transmission T

93 A method for playing a game on a network, comprising: for each user of a plurality of network users, each having a corresponding user node for accessing the network, steps (A) through (I) following are performed:

- (A) first receiving, at a game playing source accessed via predetermined address information indicative of a predetermined address on the network, a transmission by the user's corresponding user node wherein the transmission is for activating a game, the game for providing a plurality of game presentations;
- (B) activating the game for interactively communicating with the user via transmissions on the network between the user node and said game playing source;
- (C) first transmitting on the network, from said game playing source, and in response to the game playing source receiving the transmission, first game data for the game for presenting at the user node;
- (D) second receiving, by the game, a first game response obtained from the network, the first game response corresponding to a game input by the user in response to a presentation of said first game data at the user node;
- (E) determining second game data by the game as a response to said first game response, said second game data corresponding to a subsequent one of the game presentations to be presented to the user;

wherein said step of determining accesses context data having information indicative of a status of the user's interactions with the game is accessed;

- (F) obtaining advertising data for presenting advertising of one or more of a purchasable product or a purchasable service for one of a plurality of advertisers;
- (G) combining the advertising data and the second game data resulting in combined data;
- (H) second transmitting, on the network and from the game playing source, the combined data, the combined data for presenting at the user node a combined presentation of the subsequent game presentation and an advertising presentation corresponding to the advertising related data, wherein the advertising presentation has predetermined network link data associated therewith such that the link data is activated by a user input to the advertising presentation resulting in a corresponding network transmission of data indicative of said user input being transmitted to a predetermined network site which provides the user node with access to the advertising presentation, the network site being different from the gaming playing source; and
- (I) receiving access information indicative of the advertising presentation being accessed by the user wherein the

access information is used in deriving advertising effectiveness information which is subsequently made available to the one advertiser

94 The method of claim 62, further including responding to the user input by determining additional service information for the interactive information service using context data stored at a network accessible site different from the user's node wherein the context data is obtained from one or more previous user interactions with the advertising presentation node and wherein context data provides a constraint: the responding step including:

- (A) determining an additional one of the advertising information items for at least one of the advertisers;
- (B) combining the additional advertising information item and the additional service information resulting in additional combined data;

wherein the additional advertising information item has corresponding predetermined network link data associated therewith such that the corresponding predetermined link data is activated by a user input to a presentation of the additional advertising information thereby resulting in a corresponding network transmission of data indicative of said user input being transmitted to a predetermined network node different from the advertising presentation node; and

- (D) second transmitting the additional combined data to the user node

95 The method of claim 62 wherein the step (B) of determining includes selecting one of the one or more advertising information items by identifying a correspondence between: (i) user selection information for one of the advertisers; and (ii) information about the user obtained from previous user communications

96 The method of claim 62, further including: transmitting, via a connection to the network, data for storing on the user's node; and

receiving, via a subsequent connection to the network, a transmission indicative of the data stored on the user's node for providing a subsequent transmission to the user node

97 The method of claim 96, further including providing the user node with network access as a result of receiving said data indicative of the information stored on the user's node

98 The method of claim 62 further including transmitting information to the user's node for determining whether a predetermined program is active for displaying the one or more of the advertising information items

99 The method of claim 62, further including downloading to the user's node a program for presenting unrequested advertising to the user via the user's node

100 The method of claim 62 a further step of determining for at least some of the plurality of users, data indicative of a number of hyperlinks activated corresponding to the advertising information items presented to the at least some of the plurality of users

101 The method of claim 62 further including: collecting information about the user, wherein the information about the user is obtained from transmissions of the user's node on the network corresponding to input provided by the user to the user node

wherein said step of collecting includes monitoring the user's communications on the network with other network accessible nodes for obtaining the information about the user; and

wherein the advertising presentation node operates substantially independently of at least most of the other network accessible nodes

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102 The method of claim 62 further including transmitting via the network information for storing at the user's node, wherein the stored information is utilized in allowing the user node to access a service provided by the advertising presentation node on a connection to the network by the user's node, wherein the connection occurs after a connection to the network for the step (A) of receiving terminates

103 The method of claim 62 further including a step of communicating with the user's node for detecting an activation of a predetermined program on the user's node, wherein said predetermined program is used in presenting unrequested advertising to the user

104 The method of claim 62 further including selecting the one or more advertising information items based on profile data for the user

105 The method of claim 104 further including a step of receiving selection information from an advertiser for selecting the user based on a correspondence between the selection information and profile data

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106 The method of claim 104 wherein the profile data includes information indicative of a geographic location related to the user

107 The method of claim 65 further including selecting the user for receiving at least one of the advertising presentations based on a correspondence between profile selection information provided by an advertiser and profile data for the user

108 The method of claim 107 wherein the profile data includes information indicative of a geographic location related to the user

109 The method of claim 65 further including a step of communicating with the user node for detecting an activation of a predetermined program on the user node, wherein said predetermined program is used in presenting unrequested advertising to the user

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