

EXHIBIT G



80.00 + 130 RECEIVED 26/

PATENT JUN 21 1991
Attorney Docket No. 02473.0001-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
GROUP 260

In re the application of)	
Paul Yurt, et al.)	
Serial No. 07/637,562)	Group Art Unit: 262
Filed: January 7, 1991)	Examiner:
For: AUDIO AND VIDEO TRANSMISSION AND RECEIVING SYSTEM)	

Hon. Commissioner of Patents
and Trademarks
Washington, DC 20231

Sir:

**PETITION TO MAKE SPECIAL UNDER
M.P.E.P. § 708.02(VIII)**

Applicants hereby petition the Commissioner of Patents and Trademarks under M.P.E.P. § 708.02 (VIII) to make this application special and receive accelerated examination. In accordance with that section, Applicants have enclosed a check for \$80.00 to cover the fee for this petition as set forth in 37 C.F.R. § 1.17(i). If any additional fees are required in connection with the filing of this Petition, please charge those fees to Deposit Account No. 06-916.

All claims presented for examination are believed to be directed to a single invention. If, however, the Examiner requires a restriction, Applicants provisionally elect for prosecution whichever group of claims contains method claims 18-21.

Also in accordance with M.P.E.P. § 708.02 (VIII), Applicants affirm that a preexamination search has been made

LAW OFFICES
FINNEGAN, HENDERSON
FARABOW, CARRETT
& DUNNER
1300 I STREET, N.W.
WASHINGTON, DC 20005
1-202-408-4000

by an attorney who conducted searches in class 358, subclass 86 and class 455, subclasses 4, 5, 86, 102, 135, and 136.

The following references were developed during the searches and during subsequent investigations, and a copy of each of these references is enclosed along with a copy of PTO Form FB-A820 listing these references.

DESCRIPTION OF THE CLAIMED INVENTION

The present invention is directed to an audio and video transmission and receiving system in which the user controls the access and the playback operations of selected material. The present invention affords the user greater access to and control over audio and video information than is possible in conventional systems. With the present invention, a user can request audio and video information to be sent to a selected destination. Further, the user is not constrained to having programs played at a particular time because the system has a buffering capability. By employing such buffering, the user has individualized control over the replay of requested programs. Moreover, requested programs are sent to the user in a compressed format. This enables the system to send requested programs to users in a relatively short time period, and allows users to store large quantities of requested material for playback at a desired time.

The entire system includes a transmission system and a reception system. The transmission system includes a source material library from which a user makes a selection. The selected program is processed and compressed for storage in a

compressed data library. The system control computer controls access to programs stored in the compressed data library and controls transmission of selected programs to a user.

Once a selected program is transmitted, the reception system of the present invention receives the program and buffers it in a storage section. Because the program is buffered, the user can choose to replay the stored program whenever desired. When replay is requested, the program is decompressed and played back in real time at the receiving device requested by the user.

Figs. 2A and 2B of the application are detailed block diagrams of a preferred implementation of the transmission system of the present invention. Fig. 2B shows an implementation of the compressed data storing means recited in claim 1 as the compressed data library 118. Fig. 6 is a block diagram of a preferred implementation of the receiving system of the present invention. Fig. 6 shows an implementation of the storing means required in claim 22 as element 203. Fig. 7 is a flowchart of a preferred method of distribution which shows the buffering step at step 418.

Claims 1-17 are directed to a transmission system for providing information to remote locations. The system recited in those claims includes library means, for example source material library 111, for storing items. A requested program is encoded in the identification encoding means, for example identification encoder 112, which assigns the requested program with a unique identification code. The requested program is also converted by the converting means, for example converter 123, and ordered into a sequence of addressable data block by the ordering means, for

example time encoder 114 and precompression processor 115. Subsequently, the program is compressed by compression means, such as compressor 116, and stored in the compressed data storing means, which may be compressed data library 118. The identification means, the conversion means, the ordering means, and the compressed data stores storing means will be collectively referred to as preprocessing elements. Transmitter means, for example transmitter format means 119 and transmitter 122, transmit the requested program to the user.

Claim 7 calls for a system control interface means for generating a visually-perceptible list of the items available in the compressed data library, and library access interface means, which may be library access interface 121, which receives transmission requests and retrieves formatted data blocks stored in the compressed data library means.

Claims 18-21 cover a distribution method responsive to user requests identifying information to be sent from a transmission system to remote locations. This is shown in Figure 7. The distribution method of independent claim 18 includes the steps of processing audio and information for storage in a compressed data form (steps 413a-413e), storing audio and video information in a compressed data form (step 414) and user request of the stored information for transmission to a selected remote location (step 415). The method also includes the steps of sending the compressed information to a remote location (step 416) and receiving it there (step 417). After reception, the distribution method includes buffering the received information (step 418) and

playing it back in real time at a time requested by the user (step 419). The distribution method recited in claim 21 further includes, the step of storing a list of items available to the user from at least one compressed data library, and providing the user with the list so that the user may remotely select a particular item for transmission.

Claims 22-32 are directed to a receiving system responsive to a user input identifying an item stored in a source material library to be played back to the subscriber at a location remote from the source material library, the item containing information to be sent from a transmitter to the receiving system. The reception system 200 comprises transceiver means, such as transceiver 201, which receives requested information from the transmitter as compressed formatted data. The received information is converted into a format suitable for storage and playback in real time in the receiver format conversion means, which may be receiver format converter 202, and then stored as compressed data in the storage means, for example storage 203.

*Superfluous
misuse of
word?*

When playback is requested, the decompressing means, for example audio decompressor 209 and video decompressor 208, decompresses the information and the output conversion means, such as output converter 206, plays back the decompressed information in real time at a time specified by the user.

As recited in claim 27, the output data conversion means further comprises digital video output means, for example video output converter 211, and analog video output means, for example analog video output converter 213. According to claim 30, the

output data conversion means also includes digital audio output means, for example digital audio output converter 212, and analog audio output means, for example analog audio output converter 214. Claim 32 recites that the transceiver means, such as transceiver 201, receives information via any one of telephone, ISDN, broadband ISDN, satellite, common carrier, computer channels, cable television systems, MAN, and microwave.

DETAILED DESCRIPTION OF THE REFERENCES

A. REFERENCES CITED IN THE SPECIFICATION

1. Lang, U.S. Patent No. 4,963,995

Lang, which is discussed in the Background of Invention portion of the specification, discloses an audio/video transceiver apparatus (VCR-ET) that includes a compression capability. The VCR-ET of Lang is an improved audio/video recorder which has "added features and functions which significantly enhance its usefulness and functionality." See col. 1, lines 65-68. Specifically, Lang discloses an audio/video transceiver with the capability of editing or copying from one video tape to another using only a single tape deck. Lang further discloses a VCR-ET which can re-transmit a program to a second VCR-ET. See Col. 7, lines 60-64.

Lang does not disclose a transmission system as recited in independent claim 1 because Lang does not teach or suggest a transmission system for providing information to remote locations which includes library means for storing items. Lang also does not teach or suggest an identification encoding means for

retrieving the information for the items from the library means and for assigning a unique identification code to the retrieved information

Lang also is not concerned with providing a distribution method responsive to user requests identifying information to be sent from a transmission system to remote locations. Accordingly, Lang fails to teach or suggest the steps of the distribution method claimed in independent claim 18.

Because Lang is directed to an improved VCR, Lang does not disclose a receiving system which is responsive to user requests for items from a source material library. While Lang mentions that video libraries are "envisioned," there is no disclosure of how material would be requested or retrieved from such libraries. See col. 7, line 67 of Lang. Particularly, Lang does not teach that user requests will cause items stored in a source material library to be sent from a transmitter to a receiving system, as called for in independent claim 22.

2. Monslow et al., U.S. Patent No. 4,890,320

Monslow et al., which is also described in the Background of Invention section of the specification, discloses a system which broadcasts viewer-selected material to a viewer at a prescribed time. However, the Monslow et al. system requires multiple users in multiple locations to view the requested material at the time it is broadcast, rather than allowing each viewer to choose his or her own viewing time. Once the choice is made, the user cannot change it because Monslow et al. does not provide for buffering a

selected program so that the user can play it back at a desired time. See col. 6, line 60 through col. 7, line 28.

Further, in Monslow et al., the viewer-chosen program is transmitted to the television receiver of the requesting viewer. The requestor therefore does not have a choice of where the information that they request is sent. See the Abstract, Fig. 1, and col. 5, lines 27-39.

With regard to the claims, Monslow et al. does not teach or suggest the preprocessing elements called for in independent claim 1, the buffering step required in independent claim 18, or the storage means recited in independent claim 22.

3. Abraham, U.S. Patent No. 4,590,516

Abraham '516, which is another reference described in the Background of Invention portion of the specification, discloses a combined telephone and modulated carrier communication system. In Abraham '516, a user at a subscriber station 10 uses a standard telephone set 16 to contact program service station 12. The user selects a program from the library 36. A telephone communication link is established with the station 12 through the switching gear 20, and when the program selection operation from the library 36 is completed, a return signal is heard by the subscriber through the telephone. The user then hangs up the telephone which initiates program readout and sets the billing computer 28. A timed message period precedes transmission of the program. After the message period ends, the selected program is transmitted and the billing operation is performed. During the message period,

the subscriber can call up and cancel transmission of the program.
See col. 4, line 38 through col. 5, line 3 and Fig. 1.

The system in Abraham '516 uses a dedicated signal path, rather than multiple common carriers, to transmit audio/video programming. Also, the receiver has no storage capability. Furthermore, the system provides for only display functions, which limits viewing to the time at which the material is ordered, and, like Monslow et al., the Abraham '516 system does not allow for the stop, pause, and multiple viewing functions of existing VCR technology.

Because Abraham '516, like Monslow et al., discloses relative simultaneous transmission of the requested material, this reference does not teach or suggest the compressed data storage means recited in independent claim 1, the buffering step required in claim 18, or the storage means called for in claim 22.

4. Walter, U.S. Patent No. 4,506,387

Walter, also discussed in the Background of Invention section of the specification, discloses a fully dedicated, multi-conductor, optical cable system that is wired to the viewer's premises. Although the system affords the viewer some control over accessing the material, it requires that a location designated by the viewer be wired with a dedicated cable. The Walter system further requires that the viewer be at that location for both ordering and viewing the audio/video material.

In Walter, information is retrieved from the memory modules 24-35. A host computer 20 controls output of desired material over optical fibers 129, 94, 96, 98, and 100 to data receiving

system 146. After selection from memory modules, there is no provision in Walter for storing the requested material in a compressed form. Therefore, Walter does not teach or suggest the preprocessing elements required in independent claim 1. Additionally, there is no teaching or suggestion in Walter that only a portion of an item stored in the library modules 24-34 can be sent to a subscriber, as further recited in independent claim 1.

Walter shows memory module 102 in the data receiving system 14, but there is no indication in Walter that compressed data is stored in memory module 102. Because non-compressed data is stored in the memory module, the user is limited as to the quantity of data which may be stored therein. Accordingly Walter does not teach or suggest buffering the received information, which is compressed, at the remote location, as recited in independent claim 18, or a receiver including storage means, coupled to receiver format conversion means, for storing compressed formatted data, as set forth in independent claim 22.

B. REFERENCES CITED IN THE SEARCH REPORT OF 09/07/90

1. Lumelsky, et al., U.S. Patent No. 4,949,169

Lumelsky et al. discloses an audio-video data interface for a high speed communication link in a video-graphics display window environment. A "primary objective" of Lumelsky et al. is to "provide a simple interface to a high speed digital communication network such that full motion video window images and its audio sampled by one node can be transmitted over the network to other nodes." See col. 5, lines 25-30 and Figs. 1A and 1B.

Because Lumelsky et al. is directed to interface architecture for connecting video display devices, it is not directed to a transmission system or a receiving system, as respectively recited in independent claims 1 and 22. Further, because Lumelsky et al. is concerned only with interconnecting display devices, it is not concerned with the distribution of information from a transmitter to a receiver, and therefore it does not teach or suggest buffering received information at a remote location, as recited in the distribution method of independent claim 18.

2. Fenwick et al., U.S. Patent No. 4,947,244

Fenwick et al. discloses a video program distribution system. The system includes controller 116 which receives and responds to user requests from monitors 102. The controller 116 also controls the switch 114 which is connected to the video sources 112. See col. 3, lines 29-36. The video sources 112 are video cassette players. The number of video cassette players used in a system will vary between thirty-two and ninety depending on the range of programming desired. See col. 5, lines 15-20.

In Fenwick et al., the video sources 112 must be manually controlled. Because the system is manually controlled, Fenwick et al. does not disclose a transmission system including identification encoding means for retrieving the information for the items from a library and for assigning a unique identification code to the retrieved information, as required in independent claim 1. Moreover, in Fenwick et al., information is sent directly from video sources 112 to the monitors 102 and is not stored prior to replay. Therefore, Fenwick et al. also does not

disclose buffering received information at a remote location, as required in independent claim 18 or a storage device at the receiver, as required in independent claim 22.

3. Boulton, U.S. Patent No. 4,937,821

The Boulton patent discloses an information delivery system for delivering reference information to a plurality of users. In Boulton, information from data sources 12 is encoded in encoders 14 and mixed in mixers 16 and 18 for delivery over a cable 24 to a user. The information is neither transmitted nor received by the user in a compressed form. Boulton also does not show the requested information being stored prior to transmission to a user. Boulton therefore does not teach or suggest a transmission system including the preprocessing steps or compressed data storing means, as recited in independent claim 1, or the step of storing audio and video information in a compressed data form, as recited in independent claim 18. Because Boulton also does not show the requested information being stored at the receiving device of a user, Boulton does not teach or suggest storage means for storing compressed formatted data, as recited in independent claim 22.

4. Eggers et al., U.S. Patent No. 4,920,432

The Eggers et al. patent discloses a system for random access to an audio video library with independent selection and display at each of a plurality of remote locations. The system in Eggers et al. includes a video filer 2, which is a microprocessor-controlled mechanical storage and retriever device, that transports discrete data record items, i.e., video cartridges,

between a rectangular array of storage sites 12 open on one side, and an adjacent array of playback devices 11. See col. 3, lines 36-40. Video signal combiner 4 directs the outputs of all of the signal sources, including players 11, to the user terminals 8 by way of a video cable 17.

Eggers et al. does not teach or suggest the identification encoding means for retrieving the information from the library and for assigning a unique identification code to the retrieved material, as called for in independent claim 1. Eggers et al. also does not teach storage of the requested material at the receiving device prior to replay. Therefore, Eggers et al. does not teach or suggest the buffering step set forth in independent claim 18. Moreover, because the material is sent directly from the filer 2 to the user terminals 8, Eggers et al. does not teach or suggest the storage means called for in independent claim 22.

5. Bestler et al., U.S. Patent Nos. 4,807,023 and 4,755,872

The Bestler et al. patents relate to an "impulse pay per view" system. In the Bestler et al. system, a user can receive a specific cable program by requesting that it be unscrambled at his receiver. The user enters a password which causes the authorization code in his converter to change thereby allowing him to view the desired cable event. See col. 14, lines 58-64 of Bestler et al. '023 and col. 14, lines 49-55 of Bestler et al. '872.

In the Bestler et al. patents, programming is sent directly to the viewer's cable television receiver. Because the requested programming is directly transmitted, neither of the Bestler et al.

patents teaches buffering requested programming. Therefore, neither of the Bestler et al. patents teaches or suggests the preprocessing elements recited in independent claim 1, the buffering step required in independent claim 18, or the storage means called for in independent claim 22.

6. Gordon et al., U.S. Patent No. 4,763,191

The Gordon et al. patent discloses a system providing an "800" dial-a-view program for ordering a selection through a telephone networking arrangement. The Gordon et al. system includes routing database 101 for directing a dial-a-view call received by a toll network switching office 102 to centralized network equipment 103. Vendor equipment 104 supplies the requested subscription television programming to the calling customer television 105 at customer premises 122 via decoder 106 and coaxial cable 160. See Fig. 1 and col. 5, lines 3-23.

Fig. 2 of Gordon et al. shows another embodiment of vendor equipment 104. In this configuration, vendor equipment 104 includes local vendor equipment 201 to serve customer premises 122 via cable 160. Satellite facilities 202 and 203 provide individual programming whereby information is transmitted to the local vendor equipment 201. Equipment 201 includes program distribution equipment 207 and a billing system 208.

In Gordon et al., there is no provision for storage of requested programming before transmission to the user or for storage before the programming is played. Because there is no storage, Gordon et al. does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step

required in independent claim 18, or the storage means called for in independent claim 22.

7. Southworth et al., U.S. Patent No. 4,400,717

The Southworth patent relates to a color slow-scan TV system and method. The system includes video compressor 25 which receives a color signal from a video input 27. The output of the memory in video compressor 25 is displayed on a TV monitor 29 which indicates the image to be transmitted. The memory is read out slowly and transmitted over a transmission channel 31 to a video expander 33 and displayed at TV monitor 35. See Fig. 1 and col. 2, lines 33-49.

Because Southworth, et al. is concerned with the slow scan, it is not directed to reception and distribution of audio and video information from libraries to remote user locations, as in the present invention.

8. Lambert, U.S. Patent No. 4,381,522

The Lambert patent relates to a cable television system which includes a minicomputer 11 that responds to signals from viewers at remote receiving locations 18. Desired programs are sent only at specified times and only over specified cable channels. See col. 2, line 49 through col. 3, line 18. In Lambert, the subscriber has limited control over when a program will be played because computer 11 assigns a channel, start and stop time for the selected program. Moreover, there is no provision for storage of requested data prior to transmission, or for storage at the receiving device of the user. Accordingly, Lambert does not teach or suggest the preprocessing elements called for in independent

claim 1, the buffering step required in claim 18, or the storage means recited in claim 22.

9. Cannon, U.S. Patent No. 4,122,299

The Cannon patent discloses a data output modifying system. The system places data from a television display into a format for acceptance by a general purpose communications printer. Cannon is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

10. Stetten et al., U.S. Patent No. 3,746,780

The Stetten et al. patent relates to a video display system including a transmission system whereby a subscriber 4 uses telephone 6 to select video display information stored in storage section 30. The information is sent directly to TV receiver 34. There is no provision in Stetten et al. for storing requested information after selection and prior to transmission. Further, Stetten et al. does not show the data sent to TV receiver 34 in a compressed format.

Therefore, Stetten et al. does not teach or suggest a transmission system including the preprocessing elements recited in independent claim 1, or the step of storing audio and video information in a compressed data form, as recited in independent claim 18. Also, there is no provision for storing the requested information at the receiver of Stetten et al. Accordingly, Stetten et al. also does not teach or suggest storage means for storing compressed formatted data, as recited in the receiver system of independent claim 22.

C. REFERENCES CITED IN THE SEARCH REPORT OF 6/19/90

1. Music et al., U.S. Patent No. 4,914,508

The Music et al. '508 patent relates to a method and system for compressing and statistically encoding color video data. Fig. 1 shows a diagram of the system and method for compressing color video data and Fig. 7 shows the system and method for decompressing color video data. Because Music et al. '508 relates only to compression and decompression of color video data, Music et al. '508 is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

2. Okamura et al., U.S. Patent No. 4,907,081

The Okamura et al. patent relates to a compression and coding device for video signals. The object of Okamura et al. is to provide a coding device capable of suppressing signal deterioration (error propagation, etc.) accompanying the coding and of reducing the necessary average number of bits per sampled data. See col. 2, lines 12-16. Okamura et al. is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

3. Golin et al., U.S. Patent No. 4,868,653

The Golin et al. patent relates to an adaptive digital video compression system. Particularly, Golin et al. is directed to meeting the need for a compression system for providing a compressed digital video signal representative of a full motion color video signal which is suitable for recording or transmission using relatively narrow band media and which may be decompressed

at speeds at least equal to conventional video frame rates. See Col. 1, lines 44-50. Because Golin et al. is concerned only with signal compression, Golin et al. is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

4. Music et al., U.S. Patent No. 4,847,677

The Music et al. '677 patent relates to a video telecommunication system and method for compressing and decompressing digital color video data. Fig. 1 shows a diagram of the system and method for compressing color video data and Fig. 7 shows the system and method for decompressing color video data. Because Music et al. '677 relates only to compression and decompression of color video data, Music et al. '677 is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

5. Hirashima, U.S. Patent No. 4,833,710

The Hirashima patent is directed to a pay television system capable of effectively preventing illegal access to certain programming by being charge codes to indicate how much money a subscriber owes, and denying of access to the system unless the bill is paid. In Hirashima, requested programming is sent directly to the television receiver 17. See Fig. 2.

Because Hirashima directly transmits programming, it does not disclose buffering and therefore does not teach or suggest the preprocessing elements recited in independent claim 1, the

buffering step recited in independent claim 18, or the storage means recited in independent claim 22.

6. Keith et al., U.S. Patent No. 4,785,349

The Keith et al. patent relates to a digital video decompression system. Particularly, Keith et al. shows a system for compressing and formatting a full motion color digital video signal. Because Keith et al. relates only to a decompression system, Keith et al. is not concerned with a transmission, reception or distribution system responsive to user requests for information, as is the present invention.

7. Okada et al., U.S. Patent No. 4,734,765

The Okada et al. patent discloses an audio/video information transmission system which includes subscriber terminal 5 from which information is requested and then delivered to and received a TV receiver 52. The subscriber terminal 5 is coupled to sub-center 6 which communicates with center 3 having audio and video files 1. See Figs. 1 and 2

In Okada et al., the subscriber request is processed and the information is sent directly to the subscriber terminal. There is no provision for storage of the requested information prior to transmission or for storage by the user at the receiver so that he for replay at a desired time. Therefore, Okada et al. does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step required in claim 18, or the storage means called for in independent claim 22.

8. Eilers et al., U.S. Patent No. 4,688,246

The Eilers et al. patent relates to a CATV transmission system for a CATV scrambled signal with compressed digital audio in the horizontal intervals. Because Eilers et al. is only concerned with a transmission system, it does not teach or suggest the steps of the distribution method set forth in independent claim 18 or the receiving system set forth in independent claim 22.

Regarding the transmission system, Eilers et al. sends items directly to users and does not provide for storage of compressed data prior to transmission. Therefore, Eilers et al. does not teach or suggest a transmission system including the preprocessing elements required in the transmission system recited in independent claim 1.

9. Catros et al., U.S. Patent No. 4,679,079

The Catros et al. patent is concerned only with a method and system for bit-rate compression of digital data between a television transmitter and receiver. Catros et al. is not concerned with a transmission, reception or distribution system responsive to user requests for information as in the present invention.

10. Nakajima et al., U.S. Patent No. 4,538,176

The Nakajima et al. patent discloses a video/audio transmission system for sending video and audio information from video and audio files of a center 4 to a subscriber terminal 7. The arrangement includes a sub-center 8 which has a buffer memory 2. See Fig. 2. The information requested from center 4 is

sent to the sub-center 8. In sub-center 8, the video is separated from audio and sent to buffer 25. Audio is decompressed in changeover/output unit 24 and combined with video in combining and output unit 26. The decompressed information is then sent to subscriber terminal 7b over line 5. See Figs. 3 and 6A and col. 4, line 50 through col. 5, line 6.

In Nakajima et al., the subscriber request is processed and the information is sent directly to the subscriber terminal. There is no provision for storage of the requested information prior to transmission to the user or storage by the user so that to replay at a desired time. Therefore, Nakajima et al. does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step required in claim 18, or the storage means called for in claim 22.

11. Tiemann et al., U.S. Patent No. 4,533,936

The Tiemann et al. patent relates to a system for encoding and decoding video signals to reduce the bandwidth required for transmission thereof over a transmission channel, a broadcast channel or a storage medium. See col. 1, lines 5-9. Because Tiemann et al. is concerned solely with encoding and decoding video signals, that reference is not related to the transmission, reception or distribution system responsive to user requests for information of the present invention.

12. Lovett, U.S. Patent No. 4,450,477

The Lovett patent discloses a television information system wherein a control station 140 sends a unique modulated carrier frequency signal to the subscriber terminal 129 of a user.

Privacy is guaranteed by dedicating a different carrier frequency to each subscriber. There is no provision for storage of the requested information prior to transmission or by the user so that he or she can replay it at a desired time. Therefore, Lovett does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step required in independent claim 18, or the storage means called for in independent claim 22.

13. Parker et al., U.S. Patent No. 4,009,346

The Parker et al. patent relates to distributional activity compression. Particularly, Parker et al. concerns a modular hierarchical approach to time division multiplex (TDM) switching relative to time division multiplex access (TDMA) facilities, particularly earth satellite TDMA facilities. Parker et al., however does not relate to the transmission, reception or distribution system responsive to user requests for information of the present invention.

14. Flemming, U.S. Patent No. 4,009,344

The Flemming patent relates to interrelated switching, activity compression and demand assignment. Specifically, Flemming concerns an access method and modular station apparatus for switching voice and data signals relative to a TDMA link, especially a satellite. See col. 3, lines 3-5. Flemming is not related to the transmission, reception or distribution system responsive to user requests for information of the present invention.

15. Jackson et al., U.S. Patent No. 3,599,178

The Jackson et al. patent relates to a method of storing information on and retrieving information from a magnetic drum. Jackson et al. employs selective mapping of information on a magnetic drum to permit rapid access and retrieval. Because Jackson et al. is concerned only with the storage of information, Jackson et al. does not relate to the transmission, reception or distribution system responsive to user requests for information of the present invention.

D. OTHER REFERENCES

1. Cohen, U.S. Patent No. 4,949,187

The Cohen patent relates to a video communication system having a remotely controlled central source of video and audio data. Cohen shows a block diagram of the remotely-controlled central source of video and audio data. Disks 12, 14, 16, 18, 20, 22, 24, and 26 store frequently accessed movies. The disks are read by drives controlled by a disk controller 28, 30. Movies that are only accessed infrequently are archived on a tape archival system 32 which is controlled by tape driver 34. The distribution system CPU 36 controls the bidirectional flow of data from disks 12-26 and tape archival system 32. See col. 1, lines 1-18.

In order to output a plurality of movies simultaneously, several controllers 42, 44, 46, and 48 are used which output signals to multiplexor 58 for transmission over telephone line 60. See Fig. 4 and col. 4, lines 30-46. Cohen does not teach that the information transmitted over telephone line 60 is compressed, and

therefore does not teach or suggest compression means for compressing formatted and sequenced data or the compressed data storage means for storing as a file the compressed, sequenced data, as recited in the transmission system of independent claim 1. Cohen also does not teach or suggest the step of storing audio and video information in a compressed data form, as recited in the distribution method of independent claim 18.

Figs. 1-3 of Cohen show the receiving device. Incoming serial data on phone line 112 is processed by modem 110 and is forwarded by central processing unit 104 to the disk storage system 114 via disk controller 116. Cohen does not indicate that the incoming signals are received in a compressed format. Because Cohen does not receive the signals in a compressed format, Cohen also does not teach or suggest the decompressing means for decompressing the compressed formatted data, as recited in the receiving system of independent claim 22.

2. Yabiki et al., U.S. Patent No. 4,518,989

The Yabiki et al. patent is commonly assigned to the assignee of the Okada et al. and Nakajima et al. patents. Yabiki et al. shows a plurality of repeaters 6 between center 4 and sub-center 8 and between sub-center 8 and subscriber terminal 7. In Yabiki et al., a subscriber request is processed and the information is sent directly to the subscriber terminal. There is no provision for storage of the requested information prior to transmission or by the user so that he or she can replay it at a desired time. Therefore, Yabiki et al. does not teach or suggest the preprocessing elements recited in independent claim 1, the

buffering step required in independent claim 18, or the storage means called for in independent claim 22.

3. Abraham, U.S. Patent No. 4,567,512

The Abraham '512 patent discloses a recorded program communication system. In this system, subscribers communicate with a library computer 28 via a telephone connection. The telephone system 12 is coupled to a command unit 24 from which the subscriber enters his or her choices. With command terminal unit 24, the subscriber has access to information in the library station 18 and provides billing information to the billing station 27. See col. 4, lines 45-49.

By using command unit 24, the subscriber enters selection data obtained from a printed program guide which identifies each program in the library and its associated program number. Based on the same program guide, the subscriber selects one of the available time segments for the selected program. See col. 7, lines 24-32 and Fig. 3. With the system in Abraham '512, the subscriber may not change the time a program can be viewed. This is because there is no provision for storage of the requested program prior to transmission or for storage at the receiving device of the user. Therefore, Abraham does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step required in independent claim 18, or the storage means called for in independent claim 22.

4. Abraham, U.S. Patent No. 4,521,806

Abraham '806 relates to a method of generating and processing audio/video broadcast signals in a subscription communication

system. In Abraham '806, as with Abraham '512 and '516, the requested information is not stored prior to transmission and the subscriber cannot store the requested information at his or her station. Therefore, the subscriber can only receive information substantially simultaneously to the request for it. Because requested information is not stored prior to transmission or at the user's receiving device, Abraham '806 does not teach or suggest the preprocessing elements recited in independent claim 1, the buffering step required in independent claim 18, or the storage means called for in independent claim 22.

5. Bushnell et al., U.S. Patent No. 4,071,697

The Bushnell et al. patent relates to an interactive video/telephone transmission system wherein a user can view merchandise information at home. The system includes a capability of calling particular stores offering the viewed merchandise to registering a request to purchase selected merchandise. The user does not receive anything at his receiver 12 in response to his request to purchase selected merchandise. Rather, in Bushnell et al., the user simply views merchandise and then calls a store to order that merchandise.

6. Zeidler et al., U.S. Patent No. 4,062,043

The Zeidler et al. patent relates to a light wave transmission and distribution system in which at least one optical transmitter is used to distribute television programming to a plurality of receivers through light conducting fibers.

7. Ohrenstein

The Ohrenstein article describes a data storage system with a high performance parallel interface (HPPI).

8. Morreale et al.

The Morreale et al. article discusses metropolitan-area networks (MAN).

CONCLUSION


None of the references renders the pending claims invalid under 35 U.S.C. § 103. Furthermore, there is no reasonable combination of references which can be combined under 35 U.S.C. § 103 to render the pending claims obvious to a person of ordinary skill.

The requirements of M.P.E.P. §708.02 (VIII) having been met, and the pending claims being allowable over the references, Applicants request that this Petition to Make Special be granted and that claims 1-32 of this application be passed to issue as quickly as possible.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER

By:


Doris J. Johnson
Reg. No. 34,629

Dated: June 17, 1991

EXHIBIT H

Webster's
Third
New International
Dictionary
OF THE ENGLISH LANGUAGE
UNABRIDGED

© Merriam-Webster
REG. U. S. PAT. OFF.

*Utilizing all the experience and resources of more than
one hundred years of Merriam-Webster® dictionaries*

EDITOR IN CHIEF
PHILIP BABCOCK GOVE, Ph.D.

AND
THE MERRIAM-WEBSTER
EDITORIAL STAFF



MERRIAM-WEBSTER INC., *Publishers*

SPRINGFIELD, MASSACHUSETTS, U.S.A.



A GENUINE MERRIAM-WEBSTER

The name *Webster* alone is no guarantee of excellence. It is used by a number of publishers and may serve mainly to mislead an unwary buyer.

Merriam-Webster™ is the name you should look for when you consider the purchase of dictionaries or other fine reference books. It carries the reputation of a company that has been publishing since 1831 and is your assurance of quality and authority.

COPYRIGHT © 1993 BY MERRIAM-WEBSTER, INCORPORATED

PHILIPPINES COPYRIGHT 1993 BY MERRIAM-WEBSTER, INCORPORATED

**WEBSTER'S THIRD NEW INTERNATIONAL DICTIONARY
PRINCIPAL COPYRIGHT 1961**

Library of Congress Cataloging in Publication Data
Main entry under title:

Webster's third new international dictionary of the English language,
unabridged: a Merriam-Webster/editor in chief, Philip Babcock
Gove and the Merriam-Webster editorial staff.

p. cm.
ISBN 0-87779-201-1

1. English language—Dictionaries. I. Gove, Philip Babcock,
1902–1972. II. Merriam-Webster, Inc.
PE1625.W36 1993 93-10630
423-dc20 CIP

All rights reserved. No part of this book covered by the copyrights hereon may be reproduced or copied in any form or by any means—graphic, electronic, or mechanical, including photocopying, taping, or information storage and retrieval systems—without written permission of the publisher.

MADE IN THE UNITED STATES OF AMERICA

5051 QP/H00

Preface
Editorial Staff
Outside Consultants
Explanatory Chart
Explanatory Notes
Divisions in Boldface Entries
Spelling
Plurals
Capitalization
Italicization

CGS electromagnetic units
Afro-Asiatic languages
alphabet table
anthracite coal sizes
architecture
common *area* formulas
Beaufort scale
ship's bells
book sizes
Braille alphabet
constellations
chief *crusades*
principal ocean *currents*,
executive U.S. *departmen*
dye tables I and II
Easter dates
chemical *elements*
four syllogistic *figures*
principal railroad *gages*
common shotgun *gauges*
geologic time and format
gestation periods
glacial epochs
incubation periods
Indo-European languages
measures and weights

Color:
Two plates in color.
Constellations and Stars
Constellations and Stars

EXHIBIT I

The
American
Heritage[®] Dictionary
of the English Language

FOURTH EDITION

Words are included in this Dictionary on the basis of their usage. Words that are known to have current trademark registrations are shown with an initial capital and are also identified as trademarks. No investigation has been made of common-law trademark rights in any word, because such investigation is impracticable. The inclusion of any word in this Dictionary is not, however, an expression of the Publisher's opinion as to whether or not it is subject to proprietary rights. Indeed, no definition in this Dictionary is to be regarded as affecting the validity of any trademark.

American Heritage® and the eagle logo are registered trademarks of Forbes Inc. Their use is pursuant to a license agreement with Forbes Inc.

Copyright © 2000 Houghton Mifflin Company. All rights reserved.

No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system without the prior written permission of Houghton Mifflin Company unless such copying is expressly permitted by federal copyright law. Address inquiries to Reference Permissions, Houghton Mifflin Company, 222 Berkeley Street, Boston, MA 02116.

Visit our Web site: www.hmco.com/trade.

Library of Congress Cataloging-in-Publication Data

The American Heritage dictionary of the English language.—4th ed.

p. cm.

ISBN 0-395-82517-2 (hardcover) — ISBN 0-618-08230-1

(hardcover with CD ROM)

1. English language—Dictionaries

PE1628 .A623 2000

423—dc21

00-025369

Manufactured in the United States of America

om·ni·sex·u·al (òm'nē-sèk'shōō-əl) *adj.* Pansexual. ♦ *n.* A pansexual person. —**om·ni·sex·u·al·i·ty** *n.*

om·ni·um·gath·er·um (òm'nē-əm-gāth'ər-əm) *n.* A miscellaneous collection; a hodgepodge. [Latin *omnium*, genitive pl. of *omnis*, all; see **op-** in Appendix I + *gatherum* (mock-Latinate alteration of GATHER).]

om·ni·vore (òm'nā-vōr', -vōr') *n.* 1. An omnivorous person or animal. 2. One that takes in everything available, as with the mind. [From New Latin *Omnivora*, omnivores, from neuter pl. of Latin *omnivorus*, omnivorous. See OMNIVOROUS.]

om·niv·o·rous (òm-nīv'ōr-əs) *adj.* 1. Eating both animal and vegetable foods. 2. Taking in everything available, as with the mind: *an omnivorous reader*. [From Latin *omnivorus*: *omni-*, omni- + *-vorus*, -vorous.] —**om·niv·o·rous·ly** *adv.* —**om·niv·o·rous·ness** *n.*

Om·o·lon (òm'ə-lōn') A river, about 965 km (600 mi) long, of northeast Russia flowing northward to the Kolyma River.

Om·ot·ic (ō-mōt'ik) *n.* A branch of the Afro-Asiatic language family, spoken in Ethiopia. [After the *Omo* River in western Ethiopia.]

om·pha·los (òm'fā-lōs', -lās) *n., pl. -li (-li)* 1. The navel. 2. A central part; a focal point. [Greek. See **nobh-** in Appendix I.]

Omsk (òmsk) A city of south-central Russia at the confluence of the Irtysh and Om rivers. On the Trans-Siberian Railroad, it is a major river port and transportation hub. The city was founded in 1716. Population: 1,163,885.

on (ōn, ɔn) *prep.* 1a. Used to indicate position above and supported by or in contact with: *The vase is on the table. We rested on our hands and knees.* b. Used to indicate contact with or extent over (a surface) regardless of position: *a picture on the wall; a rash on my back.* c. Used to indicate location at or along: *the pasture on the south side of the river; a house on the highway.* d. Used to indicate proximity: *a town on the border.* e. Used to indicate attachment to or suspension from: *beads on a string.* f. Used to indicate figurative or abstract position: *on the young side, but experienced; on her third beer; stopped on chapter two.* 2a. Used to indicate actual motion toward, against, or onto: *jumped on the table; the march on Washington.* b. Used to indicate figurative or abstract motion toward, against, or onto: *going on six o'clock; came on the answer by accident.* 3a. Used to indicate occurrence at a given time: *on July third; every hour on the hour.* b. Used to indicate the particular occasion or circumstance: *On entering the room, she saw him.* 4a. Used to indicate the object affected by actual, perceptible action: *The spotlight fell on the actress. He knocked on the door.* b. Used to indicate the object affected by a figurative action: *Have pity on them.* c. Used to indicate the object of an action directed, tending, or moving against it: *an attack on the fortress.* d. Used to indicate the object of perception or thought: *gazed on the vista; meditated on his actions.* 5. Used to indicate the agent or agency of a specified action: *cut his foot on the broken glass; talked on the telephone.* 6a. Used to indicate a medicine or other corrective taken or undertaken routinely: *went on a strict diet.* b. Used to indicate a substance that is the cause of an addiction, a habit, or an altered state of consciousness: *high on dope.* 7a. Used to indicate a source or basis: *"We will reach our judgments not on intentions or on promises but on deeds and on results"* (Margaret Thatcher). b. Used to indicate a source of power or energy: *The car runs on methane.* 8a. Used to indicate the state or process of: *on leave; on fire; on the way.* b. Used to indicate the purpose of: *travel on business.* c. Used to indicate a means of conveyance: *ride on a train.* d. Used to indicate availability by means of: *beer on tap; a physician on call.* 9. Used to indicate belonging to: *a nurse on the hospital staff.* 10. Used to indicate addition or repetition: *heaped error on error.* 11a. Concerning; about: *a book on astronomy.* b. Concerning and to the disadvantage of: *We have some evidence on him.* 12. Informal In one's possession; with: *I haven't a cent on me.* 13. At the expense of; compliments of: *drinks on the house.* ♦ *adv.* 1. In or into a position or condition of being supported by or in contact with something: *Put the coffee on.* 2. In or into a position of being attached to or covering something: *Put your clothes on.* 3. In the direction of something: *He looked on while the ship docked.* 4a. Toward or at a point lying ahead in space or time; forward: *The play moved on to the next city.* b. At or to a more distant point in time or space: *I'll do it later on.* 5. In a continuous course: *He worked on quietly.* 6a. In or into performance or operation: *Turn on the radio.* b. In progress or action; in a state of activity: *The show must go on.* 7. In or at the present position or condition: *stay on; hang on.* 8. In a condition of being scheduled for or decided upon: *There is a party on tonight.* ♦ *adj.* 1. Being in operation: *The television is on.* 2a. Engaged in a given function or activity, such as a vocal or dramatic role: *You're on in five minutes!* b. Under or behaving as if under observation: *A minister is always on.* 3. Informal Functioning or performing at a high degree of competence or energy: *The goalie is really on.* 4a. Planned; intended: *We have nothing much on for this weekend.* b. Happening; taking place: *The parade is on.* 5. Baseball Having reached base safely; on base: *Two runners are on.* —**idioms:** **be on to** Slang To be aware of or have information about: *You'll never deceive us again; we're on to you.* **on and off** Intermittently. **on and on** Without stopping; continuously. [Middle English, from Old English *an, on*. See **an-** in Appendix I.]

Usage Note To indicate motion toward a position, both *on* and *onto* can be used: *The cat jumped on the table. The cat jumped onto the table.* *Onto* is more specific, however, in indicating that the motion was initiated from an outside point. *He wandered onto the battlefield* means that he began his wandering at some point off the battlefield. *He wandered on the battlefield* may mean that his wandering began on the battlefield. • In constructions where *on* is an adverb attached to a verb, it should not be joined with *to* to form the single word *onto*: *move on to (not onto) new subjects; hold on to (not onto) our gains.* • In their uses to indicate spatial relations, *on* and *upon* are often interchangeable: *It was resting on (or up-*

on) two supports. We saw a finch light on (or upon) a bough. To indicate a relation between two things, however, instead of between an action and an end point, *upon* cannot always be used: *Hand me the book on (not upon) the table. It was the only town on (not upon) the main line.* Similarly, *upon* cannot always be used in place of *on* when the relation is not spatial: *He wrote a book on (not upon) alchemy. She will be here on (not upon) Tuesday.*

ON *abbr.* 1. Old Norse 2. Ontario

—**on**¹ *suff.* 1a. Subatomic particle: *baryon.* b. Unit; quantum: *photon.* 2. Basic hereditary unit: *codon.* [From ION.]

—**on**² *suff.* Inert gas: *radon.* [New Latin, from (ARG)ON.]

—**on**³ *suff.* A chemical compound that is not a ketone or a compound that contains oxygen in a carbonyl group: *parathion.* [Alteration of —ONE.]

on-a·gain, off-a·gain (ɔn'ə-gèn' òf'ə-gèn', òf-, ɔn'ə-) *adj.* Informal Existing or continuing sporadically; intermittent or occasional: *an on-again, off-again correspondence.*

on-a·ger (ɔn'ə-jər) *n.* 1. A fast-running wild ass (*Equus hemionus* subsp. *onager*) of central Asia, having an erect mane and a broad black stripe along its back. 2. An ancient and medieval stone-propelling siege engine. [Middle English, from Late Latin, from Latin, wild ass, from Greek *onagros*: *onos*, ass + *agrios*, wild; see **agro-** in Appendix I.]

on-air (ɔn'ār', ɔn'ə-) *adj.* Spoken, occurring, or used during broadcasting: *an on-air gaffe; changed his on-air name.*

o·nan·ism (ò'nā-nīz'əm) *n.* 1. Masturbation. 2. Coitus interruptus. [After *Onan*, son of Judah (Genesis 38:9).] —**o·nan·ist** *n.* —**o·nan·is'tic** *adj.*

O·nas·sis (ò-nās'sis, ò-nās'sis), **Aristotle** 1906?–1975. Turkish-born Greek financier and shipping magnate who pioneered the use of oil supertankers.

Onassis, Jacqueline Lee Bouvier Kennedy See **Jacqueline Lee Bouvier Kennedy.**

O·ñá·te (ò-nyá'tè), **Juan de** 1550?–1630? Spanish explorer and conquistador. He claimed New Mexico for Spain in 1598 and served as its governor until 1607.

on-board or **on-board** (ɔn-bōrd', -bōrd', ɔn-) *adj.* Carried or used aboard a vehicle or vessel: *onboard radar systems.* —**on-board'** *adv.*

once (wũns) *adv.* 1. One time only: *once a day.* 2. At one time in the past; formerly: *once upon a time.* 3. At any time; ever: *Once known, his face is never forgotten.* 4. By one degree of relationship: *my first cousin once removed.* ♦ *n.* A single occurrence; one time: *Once will have to do. You can go just this once.* ♦ *conj.* As soon as; if ever; when: *Once he goes, we can clean up.* ♦ *adj.* Having been formerly; former: *the once capital of the nation.* —**idiom:** **at once** 1. All at one time; simultaneously: *Everything happened at once. The view of the skyline is at once awesome, grand, and disappointing.* 2. Immediately; instantly: *Leave the room at once.* [Middle English *ones*, from *on*, one, from Old English *ān*. See **oi-no-** in Appendix I.]

once-o·ver (wũns'òv'ər) *n.* Informal A quick but comprehensive survey or performance: *Let's give this memorandum the once-over.*

♦ **on·cet** (wũnst) *adv.* Southern & South Midland U.S. *Once.* [Variant of ONCE.]

on·cho·cer·ci·a·sis (ɔng'kō-sər-kī'ə-sis) *n.* A disease caused by infestation with filarial worms of the genus *Onchocerca*, especially a disease of humans caused by *O. volvulus* and characterized by nodular swellings on the skin and lesions of the eyes. Transmitted by black flies, the disease occurs in tropical regions of Africa and Central America. Also called *river blindness*. [New Latin: *Onchocerca*, genus name (Greek *onkos*, barb + *river kerkos*, tail) + —IASIS.]

on·ci·di·um (ɔn-sīd'ē-əm, ɔng-kīd'ē-) *n.* Any of numerous epiphytic tropical American orchids of the genus *Oncidium*, having clusters of showy flowers. [New Latin *Oncidium*, genus name: Greek *onkos*, barb, hook (from the shape of its labellum) + New Latin *-idium*, diminutive suff. (from Greek *-idion*).]

on·co·gene (ɔn'kə-jēn, ɔng'ē-) *n.* A gene that causes the transformation of normal cells into cancerous tumor cells, especially a viral gene that transforms a host cell into a tumor cell. [Greek *onkos*, mass, tumor; see ONCOLOGY + GENE.]

on·co·gene·sis (ɔn'kō-jēn'ē-sis, ɔng'ē-) *n.* The formation and development of tumors. [Greek *onkos*, mass, tumor; see **nek-** in Appendix I + —GENESIS.]

on·co·gen·ic (ɔn'kō-jēn'ik, ɔng'ē-) *adj.* Tending to cause or give rise to tumors: *an oncogenic virus.* [Greek *onkos*, mass, tumor; see ONCOLOGY + —GENIC.] —**on·co·gen·ic·i·ty** (-jə-nīs'ē-tē) *n.*

on·col·o·gy (ɔn-kōl'ə-jē, ɔng-) *n.* The branch of medicine that deals with tumors, including study of their development, diagnosis, treatment, and prevention. [Greek *onkos*, mass, tumor; see **nek-** in Appendix I + —LOGY.] —**on·col·og'ic·al** (-kə-lōj'ē-kəl), **on·col·og'ic** (-lōj'ik) *adj.* —**on·col·ogist** *n.*

on·com·ing (ɔn'kūm'ing, ɔn'ē-) *adj.* Coming nearer; approaching: *an oncoming storm.* ♦ *n.* An approach; an advance.

on·cor·na·vi·rus (ɔn-kōr'nā-vī'rəs, ɔng-) *n.* Any of a group of viruses that contain single-stranded RNA and produce tumors in birds and mammals. [Greek *onkos*, mass, tumor; see ONCOLOGY + RNA + VIRUS.]

one (wũn) *adj.* 1. Being a single entity, unit, object, or living being. 2. Characterized by unity; undivided: *They spoke with one voice.* 3a. Of the same kind or quality: *two animals of one species.* b. Forming a single entity of two or more components: *three chemicals combining into one solution.* 4. Being a single member or element of a group, category, or kind: *I'm just one player on the team.* 5. Being a single thing in contrast



onager

Equus hemionus subsp. *onager*

with or relation to another or others of its kind: *One day is just like the next.* 6. Occurring or existing as something indefinite, as in time or position: *He will come one day.* 7. Occurring or existing as something particular but unspecified, as in time past: *late one evening.* 8. Informal Used as an intensive: *That is one fine dog.* 9. Being the only individual of a specified or implied kind: *the one person I could marry; the one horse that can win this race.* ♦ **n.** 1. The cardinal number, represented by the symbol 1, designating the first such unit in a series. 2. A single person or thing; a unit: *This is the one I like best.* 3. A one-dollar bill. ♦ **pron.** 1. An indefinitely specified individual: *She visited one of her cousins.* 2. An unspecified individual; anyone: *"The older one grows the more one likes indecency"* (Virginia Woolf). —**idioms:** **at one** In accord or unity. **one and all** Everyone. **one by one** Individually in succession. [Middle English *on*, from Old English *ān*. See **oi-no-** in Appendix I.]

Usage Note When constructions headed by *one* appear as the subject of a sentence or relative clause, there may be a question as to whether the verb should be singular or plural. Such a construction is exemplified in the sentence *One of every ten rotors was found defective*. Although the plural *were* is sometimes used in such sentences, an earlier survey found that the singular was preferred by 92 percent of the Usage Panel. • Constructions such as *one of those people who pose a different problem*. Most grammarians would argue that *who* should be followed by a plural verb in these sentences, as in *He is one of those people who just don't take "no" for an answer*. Their thinking is that the relative pronoun *who* refers to the plural noun *people*, not to *one*. They would extend the rule to constructions with inanimate nouns, as in *The sports car turned out to be one of the most successful products that were ever manufactured in this country*. However, constructions of this sort are often used with a singular verb even by the best writers. In an earlier survey, 42 percent of the Usage Panel accepted the use of the singular verb in such constructions. Note also that when the phrase containing *one* is introduced by the definite article, the verb in the relative clause must be singular: *He is the only one of the students who has (not have) already taken Latin.* • Constructions using *one or more* or *one or two* always take a plural verb: *One or more cars were parked in front of the house each day this week. One or two students from our department have won prizes.* Note that when followed by a fraction, *one* ordinarily takes a plural verb: *One and a half years have passed since I last saw her.* The fraction rule has an exception in that amounts are sometimes treated as singular entities: *One and a half cups is enough sugar.* Note also that the plural rule does not apply to these one-plus-a-fraction constructions that are introduced by the indefinite article. These are always singular: *A year and a half has passed since I last saw her.* See Usage Note at **he**.

Word History Why do we pronounce *one* (wūn) and *once* (wūns) while other words derived from *one*, like *only*, *alone*, and *atone*, are pronounced with a long *o*? Over time, stressed vowels commonly become diphthongs, as when Latin *bona* became *buona* in Italian and *buena* in Spanish. A similar diphthongization of *one* and *once* began in the late Middle Ages in the west of England and in Wales and is first recorded around 1400. The vowel sound underwent a series of changes, such that the word's pronunciation went from (ōn) to (ōōn), with two syllables, to (wōn) to (wōōn) to (wōōn) and finally to (wūn). In southwest England, this diphthongization happened to other words beginning with the long *o* sound, such as *oats*, pronounced there now as (wūts). Only in *one* and *once* did this diphthongal pronunciation gain widespread usage.

-one **suff.** 1. A ketone: *acetone*. 2. A chemical compound containing oxygen, especially in a carbonyl group: *lactone*. [Probably from Greek *-ōnē*, feminine patronymic suff.]

one another **pron.** Used to indicate a reciprocal relationship or reciprocal actions among the members of the set referred to by the antecedent, often with the implication that the actions are temporally ordered: *The students help one another. The waiters followed one another into the room.* See Usage Note at **each other**.

one-armed bandit (wūn'ārm'd') **n.** A slot machine for gambling operated by pulling a lever on the side.

one-base hit (wūn'bās') **n.** *Baseball* A base hit by which a batter can reach first base safely.

one-dimensional (wūn'dī-mēn'shə-nəl, -dī-) **adj.** 1. Having or existing in one dimension only. 2. Lacking depth; superficial.

One-ga (ō-nē'gə, ə-nyē'-), **Lake** A lake of northwest Russia northeast of St. Petersburg between Lake Ladoga and the White Sea. It remains frozen from November to May.

Omega Bay An arm of the White Sea in northwest Russia. It receives the **Omega River**, about 418 km (260 mi) long.

one-hand-ed (wūn'hān'dīd) **adj.** 1. Having or making use of only one hand. 2. Calling for or brought about by the use of only one hand. —**one'-hand-ed** **adv.**

one-horse (wūn'hōrs') **adj.** 1. Drawn by or using only one horse: *a one-horse carriage*. 2. Very small or insignificant: *a one-horse town*.

Oneida (ō-nī'də) **n., pl. Oneida or -das** 1a. A Native American people formerly inhabiting central New York south of Oneida Lake, with present-day populations in Wisconsin, New York, and Ontario. The Oneida are one of the original members of the Iroquois confederacy. **b.** A member of this people. 2. The Iroquoian language of the Oneida. [Oneida *ōn-yōtē*, erected stone, a village name.]

Oneida² (ō-nī'də) A city of central New York east-northeast of Syracuse. The Oneida Community, a Utopian society established in 1848 by John Humphrey Noyes, was nearby. It prospered through its manufacture of silverware and was reorganized in 1881 as a joint stock company. Population: 10,850.

Oneida Lake A lake of central New York northeast of Syracuse. It is part of the New York State Barge Canal system.

O'Neill (ō-nēl'), **Eugene Gladstone** 1888–1953. American playwright. Among his works are *Mourning Becomes Electra* (1931) and *Long Day's Journey into Night* (produced 1956), for which he was awarded his fourth Pulitzer Prize. He won the 1936 Nobel Prize for literature.

O'Neill, Thomas Philip, Jr. Known as "Tip." 1912–1994. American politician who served as a U.S. representative from Massachusetts (1952–1986) and was speaker from 1977 to 1986.

oneiric (ō-nī'rīk) **adj.** Of, relating to, or suggestive of dreams. [Greek *oneiros*, dream + -iC.]

oneiro-mancy (ō-nī'rō-mān'sē) **n.** The practice of predicting the future through interpretation of dreams. [Greek *oneiros*, dream + -MANCY.] —**onei'ro-man'cer** **n.**

one-liner (wūn'lī'nər) **n.** A short joke or witticism, usually expressed in a single sentence.

one-man (wūn'mān') **adj.** 1. Consisting of, featuring, or controlled by one man: *a one-man band; a one-man show at the art gallery*. 2. Designed for or restricted to one person: *a one-man tent*. 3. Emotionally attached to or romantically involved with one man only.

one-ness (wūn'nīs) **n.** 1. The quality or state of being one; singleness or wholeness. 2. Singularity; uniqueness. 3. A state or condition of perfect harmony or accord: *"He intuited global truths. He thrilled at his oneness with humanity"* (Sally Jacobs). 4. Sameness of character: *the disagreeable oneness of roadside landscapes*. 5. Unison; agreement: *oneness of mind and purpose*.

one-night stand (wūn'nīt') **n.** 1a. A performance by a traveling musical or dramatic performer or group in one place on one night only. **b.** The place at which such a performance is given. 2. *Slang* A sexual encounter that is limited to only one occasion.

one-note (wūn'nōt') **adj.** Unvarying, as in quality or character; monotonous: *"a one-note, rude, sulky heroine"* (Janet Maslin).

one-off (wūn'ōf', -ōf') **Chiefly British adj.** Happening, done, or made only once. ♦ **n.** Something that is not repeated or reproduced.

one-on-one (wūn'ōn-wūn', -ōn-) **adj.** 1. Consisting of or being direct communication or exchange between two people: *one-on-one instruction*. 2. *Sports* Playing directly or exclusively against a single opponent. —**one'-on-one'** **adv.**

one-person (wūn'pər'sən) **adj.** 1. Consisting of a single person. 2. Designed for or restricted to one person.

one-piece (wūn'pēs') **adj.** Consisting of or fashioned in a single piece or part: *a one-piece wetsuit; a one-piece pool cue*. ♦ **n.** A one-piece garment, such as a swimsuit.

onerous (ōn'ər-əs, ō'nər-) **adj.** 1. Troublesome or oppressive; burdensome. See synonyms at **burdensome**. 2. *Law* Entailing obligations that exceed advantages. [Middle English, from Old French *onerous*, from Latin *onerōsus*, from *onus*, *oner-*, burden.] —**on'erous-ly** **adv.** —**on'erous-ness** **n.**

one-self (wūn-sēlf') also **one's self** (wūn sēlf', wūnz sēlf') **pron.** 1. One's own self: **a.** Used reflexively as the direct or indirect object of a verb or the object of a preposition: *One can congratulate oneself on one's victories.* **b.** Used in an absolute construction: *When in charge oneself, one may rearrange the committees as one pleases.* 2. One's normal or healthy condition or state.

one-shot (wūn'shōt') **adj. Informal** 1. Becoming effective after only one attempt: *looked for a one-shot solution to the problem*. 2. Being the only one and unlikely to be repeated: *The funding was a one-shot deal*.

one-sided (wūn'sī'dīd) **adj.** 1. Favoring one side or group; partial or biased: *a one-sided view*. 2. Characterized by the domination of one competitor over another: *a one-sided basketball game*. 3. Larger or more developed on one side: *a one-sided pattern*. 4. Existing or occurring on one side only. —**one'-sid-ed-ly** **adv.** —**one'-sid-ed-ness** **n.**

one-size-fits-all (wūn'sīz-fīts-ōl') **adj.** 1. Relating to or being a garment or covering designed to accommodate a wide range of sizes. 2. *Informal* Appealing or answering to a wide range of tastes or needs: *a one-size-fits-all candidate*.

one-step (wūn'stēp') **n.** 1. A ballroom dance consisting of a series of unbroken rapid steps in 2/4 time. 2. A piece of music for this dance. ♦ **intr.v. -stepped, -step-ping, -steps** To perform this dance.

one-stop (wūn'stōp') **adj.** Relating to or providing a comprehensive selection of goods or services at a single location: *one-stop shopping; a one-stop health-care center*.

one-time (wūn'tīm') **adj.** 1. or **one-time** (wūn'tīm') **a.** Occurring or undertaken only once: *a one-time winner in 1995*. **b.** Having been in the past; former: *asked his one-time classmates for help*. 2. *Sports* Relating to or being a shot made from a pass that is not stopped prior to shooting. ♦ **tr.v. -timed, -tim-ing, -times** *Sports* To shoot (a ball or puck) directly from a pass. —**one'-tim'er** **n.**

one-to-one (wūn'tō-wūn') **adj.** 1. Allowing the pairing of each member of a class uniquely with a member of another class. 2. *Mathematics* Relating to or being a correspondence that assigns to different members of one set different members of another set.

one-track (wūn'trāk') **adj.** Obsessively limited to a single idea or purpose: *a one-track mind*.

one-two (wūn'tōō') **n.** A one-two punch.

one-two punch **n.** 1. A combination of two blows delivered in rapid succession in boxing, especially a left lead followed by a right cross. 2. *Informal* An especially forceful or effective combination or sequence of two things.

one-up (wūn'ūp') **tr.v. -up-ped, -up-ping, -ups** *Informal* To keep one step ahead of (a competitor or opponent, for example).

A pat oi boy
A pay ou out
Ar care oo took
A father oo boot
E pet u cut
E be ar urge
I pu th thin
I pie th this
I pier hw which
O pol zh vision
O toe e about item
O paw ♦ regionalism

Stress marks: / (primary); (secondary), as in dictionary (dik'shən'neri)

EXHIBIT J



Merriam- Webster's Collegiate® Dictionary

TENTH EDITION

Merriam-Webster, Incorporated
Springfield, Massachusetts, U.S.A.



A GENUINE MERRIAM-WEBSTER

The name *Webster* alone is no guarantee of excellence. It is used by a number of publishers and may serve mainly to mislead an unwary buyer.

Merriam-Webster™ is the name you should look for when you consider the purchase of dictionaries or other fine reference books. It carries the reputation of a company that has been publishing since 1831 and is your assurance of quality and authority.

Copyright © 1998 by Merriam-Webster, Incorporated

Philippines Copyright 1998 by Merriam-Webster, Incorporated

Library of Congress Cataloging in Publication Data
Main entry under title:

Merriam-Webster's collegiate dictionary. — 10th ed.

p. cm.

Includes index.

ISBN 0-87779-708-0 (unindexed : alk. paper). — ISBN 0-87779-709-9 (indexed :
alk. paper). — ISBN 0-87779-710-2 (deluxe indexed : alk. paper). — ISBN
0-87779-707-2 (laminated cover, unindexed).

I. English language—Dictionaries. I. Merriam-Webster, Inc.

PE1628.M36 1998

423—dc21

97-41846

CIP

Merriam-Webster's Collegiate® Dictionary, Tenth Edition principal copyright 1993

COLLEGIATE is a registered trademark of Merriam-Webster, Incorporated

All rights reserved. No part of this book covered by the copyrights hereon may be reproduced or copied in any form or by any means—graphic, electronic, or mechanical, including photocopying, taping, or information storage and retrieval systems—without written permission of the publisher.

Made in the United States of America

21222324RMCN98

sōn n, pl -sos [Sp, fr. oloroso fragrant, fr. olor to smell — more at ODOR] (1876) : a dry full-

-ad, δ-λ n, often cap [ME, fr. MF Olympiade, fr. as, fr. Gk, fr. Olympia, site of ancient Olympic Games of the 4-year intervals between Olympic Games held in ancient Greece 2 : a quadrennial cele-

Olympic Games 1 (15c) 1 : of or relating to Mount Olympus or characteristic of an Olympian; esp : LOFTY b simplicity and ~ arrogance —Richard Pollak 1 : of or relating to the ancient Greek region of ing to, or constituting the Olympic Games a participant in Olympic Games

1 : one of the ancient Greek deities dwelling on of lofty detachment or superior attainments n (1593) : OLYMPIC GAMES 1

im-pē-ə, δ-λ n [Olympia, Washington] (1908) live oyster (Ostrea lurida) of the Puget Sound area N. America — called also Olympia

δ-λ adj (1590) 1 : OLYMPIAN 2 : of or relating

l (ca. 1610) 1 : an ancient Panhellenic festival and made up of contests of sports, music, and tor's prize a crown of wild olive 2 : a modified Olympic Games consisting of international athlet held at separate winter and summer gatherings at called also Olympics

δ-λ n [L, fr. Gk Olympos] (1580) : a mountain in mythology is the abode of the gods

8) : a mantra consisting of the sound 'ōm' and of ultimate reality

s or -omata [L omat-, -oma, fr. Gk -omat-, -oma, causative verbs in -oun] + -mat-, -ma, suffix de-

-MENT] : tumor (adenoma) (fibroma)

ia n, pl Omaha or Omahas (1804) : a member : people of northeastern Nebraska

n, pl oma-sa -sə [NL, fr. L, tripe of a bullock] chamber of the ruminant stomach that is situated and the abomasum — compare RUMEN

brē, 'om-, -brā n [F or Sp; F ombre, fr. Sp, lit, RE] (ca. 1661) : an old three-handed card game in the 17th and 18th centuries

[F, pp. of ombre to shade, fr. It ombra, fr. nbra — more at UMBRAGE] (ca. 1896) : having had into each other — used esp. of fabrics in dated from light to dark — ombre n

idz-mən, 'om-, -badz-, -man; 'ām-'būdz-, 'ōm- n, lit., representative, fr. ON umbrothmathr, fr. -mathr man] (1959) 1 : a government official (Zealand) appointed to receive and investigate individuals against abuses or capricious acts of ie that investigates reported complaints (as from r.), reports findings, and helps to achieve equita-

buds-man-ship \-ship n i, fr. L, -oma] : mass (phyllome)

-me-λ n [ME, fr. MF, fr. Gk ὀ mega, lit., large and last letter of the Greek alphabet — see AL-

ENDING 3 a : a negatively charged elementary ss 3270 times the mass of an electron — called : a very short-lived unstable meson with mass an electron — called also omega meson

(1980) : being or composed of polysaturated he final double bond in the hydrocarbon chain fourth carbon atoms from one end of the mole-

l esp. in fish, fish oils, vegetable oils, and green

t 'ām-lət, 'ā-m-λ n [F omelette, alter. of MF ade, modif. of L lamella, dim. of lamina thin ten eggs cooked without stirring until set and

ain-, omen] (1582) : an occurrence or phenomē- i future event : AUGURY

\ n, pl -ta -tə or -tums [L; perh. akin to L ere to take off — more at EXUVIAE] (1547) : a netting or supporting abdominal structures (as ld of peritoneum free at one end — omen-tal

ōmer] (ca. 1608) 1 : an ancient Hebrew unit of 1/10 ephah 2 a often cap : the sheaf of barley Jewish Temple worship on the second day of 7-week liturgical period of expectancy between assaver and Shabuoth

'ō-, Brit ὀ-mi-(k)ran n [ME, fr. MF, fr. Gk ὀ 5c] : the 15th letter of the Greek alphabet — see

adj (1587) : being or exhibiting an omen : POR- or foreshowing evil : INAUSPICIOUS — omi-

ous-ness n

VTUOUS, FATEFUL mean having a menacing, or MINOUS implies having a menacing, alarming ng evil or disaster (ominous rumblings from a) PORTENTOUS suggests being frighteningly big v seldom definitely connotes forwarning of cap-

ortentous stillness). FATEFUL suggests being of importance (the fateful conference that led to

adj (1816) : that may be omitted

ō- n [ME omissioun, fr. LL omissiōn, omissiō, I a : something neglected or left undone b lect of duty 2 : the act of omitting : the state

t-ted; omit-ting [ME omittēn, fr. L omittere, fr. t let go, send — more at OB-] (15c) 1 : to leave

out or leave unmentioned 2 : to fail to perform or make use of : FOR-

BEAR 3 obs : DISREGARD 4 obs : GIVE UP

om-ma-tid-i-um \ā-mā-tī-dē-əm n, pl -tid-ia -dē-ə [NL, fr. Gk

ommat-, omma eye; akin to Gk ὀps eye — more at EYE] (1884) : one of the elements corresponding to a small simple eye that make up the compound eye of an arthropod — om-ma-tid-i-al -dē-ə adj

omni-comb form [L, fr. omnis] : all : universally (omnidirectional)

om-ni-bus \ām-nī-(b)əs n [F, fr. L, for all, dat. pl. of omnis] (1829) 1 : a usu. automotive public vehicle designed to carry a large number of passengers : BUS 2 : a book containing reprints of a number of works

omnibus adj (1842) 1 : of, relating to, or providing for many things at once 2 : containing or including many items

om-ni-com-pe-tent \ām-nī-'kām-pə-tənt adj (1827) : able to handle any situation; esp : having the authority or legal capacity to act in all matters — om-ni-com-pe-tence -tənt(t)əs n

om-ni-direc-tion-al \ām-nī-dā-'rēk-shə-nəl, -nī-, -(d)ī-, -shə-nəl adj (1927) : being in or involving all directions; esp : receiving or sending radio waves equally well in all directions (~ antenna)

om-ni-far-i-ous \ām-nī-'fār-ē-əs, -fēr-ə adj [LL omnifarius, fr. L omni- + -farius (as in multifarius diverse) — more at MULTIFARIOUS] (1653) : of all varieties, forms, or kinds

om-ni-fi-cent \ām-nī-fā-sənt adj [L omni- + E -ficent (as in magnifi-cent)] (1677) : unlimited in creative power

om-nip-o-tence \ām-nī-pə-tənt(t)əs n (15c) 1 : the quality or state of being omnipotent 2 : an agency or force of unlimited power

om-nip-o-tent \ām-nī-pə-tənt(t)əs n [ME, fr. MF, fr. L omnipotens, omnipotens, fr. omni- + potent-, potens potent] (14c) 1 often cap : ALMIGHTY 1 2 : having virtually unlimited authority or influence 3 obs : ARRANT — om-nip-o-tent-ly adv

omnipotent n (1600) 1 : one who is omnipotent 2 cap : GOD 1

om-ni-pres-ence \ām-nī-'pre-zəns(t)əs n (1601) : the quality or state of being omnipresent : UBQUIITY

om-ni-pres-ent \-zənt adj (1609) : present in all places at all times

om-ni-range \ām-nī-'rāŋ n (1946) : a system of radio navigation in which any bearing relative to a special radio transmitter on the ground may be chosen and flown by an airplane pilot — called also omnidirectional range

om-ni-science \ām-'ni-shən(t)əs n [ML omniscientia, fr. L omni- + scientia knowledge — more at SCIENCE] (1612) : the quality or state of being omniscient

om-ni-scient \-shənt adj [NL omniscient-, omnisciens, back-formation fr. ML omniscientia] (1604) 1 : having infinite awareness, understanding, and insight 2 : possessed of universal or complete knowledge — om-ni-scient-ly adv

om-ni-um-gath-er-um \ām-nē-əm-'gā-thə-rəm n, pl omnium-gatherums [L omnium (gen. pl. of omnis) + E gather + L -um, noun ending] (1530) : a miscellaneous collection (as of things or persons)

om-ni-vore \ām-nī-'vōr, -vōr n [NL omnivora, neut. pl. of omnivorus, fr. L] (1890) : one that is omnivorous

om-ni-v-or-ous \ām-'ni-'vōr-, -ni-'və-ə adj [L omnivorus, fr. omni- + -vorus -vorus] (ca. 1656) 1 : feeding on both animal and vegetable substances 2 : avidly taking in everything as if devouring or consuming — om-ni-v-or-ous-ly adv

om-pha-los \ām(p)-fə-'lās, -lās n [Gk, navel — more at NAVEL] (1855) : a central point : HUB 2, FOCAL POINT

om-pha-lo-skep-sis \ām(p)-fə-'lō-'skēp-səs n [NL, fr. Gk omphalos + skepsis examination — more at SPY] (1925) : contemplation of one's navel as an aid to meditation; also : INERTIA 2

on 'ōn, 'ān prep [ME an, prep. & adv., fr. OE; akin to OHG ana on, Gk ana up, on] (bef. 12c) 1 a — used as a function word to indicate position in contact with and supported by the top surface of (the book is lying ~ the table) b — used as a function word to indicate position in or in contact with an outer surface (the fly landed ~ the ceiling) (I have a cut ~ my finger) (paint ~ the wall) c — used as a function word to indicate position in close proximity with (a village ~ the sea) (stay ~ your opponent) d — used as a function word to indicate direction or location with respect to something (~ the south) (the garden is ~ the side of the house) 2 a — used as a function word to indicate a source of attachment or support (~ a string) (stand ~ one foot) (hang it ~ a nail) b — used as a function word to indicate a source of dependence (you can rely ~ me) (feeds ~ insects) (lives ~ a pension) c — used as a function word to indicate means of conveyance (~ the bus) or presence within the confines or in possession of (had a knife ~ him) 3 — used as a function word to indicate a time frame during which something takes place (a parade ~ Sunday) or an instant, action, or occurrence when something begins or is done (~ cue) (~ arriving home, I found your letter) (news ~ the hour) (cash ~ delivery) 4 archaic : OF 5 a — used as a function word to indicate manner of doing something; often used with the (~ the sly) (keep ev-erything ~ the up-and-up) b — used as a function word to indicate means or agency (cut myself ~ a knife) (talk ~ the telephone) c — used as a function word to indicate a medium of expression; used orig. to refer to physical position (best show ~ television) 6 a (1) — used as a function word to indicate active involvement in a condition or status (~ fire) (~ the increase) (~ the lookout) (2) : regularly using or showing the effects of using (~ drugs) b — used as a function word to indicate involvement with the activity, work, or function of (~ tour) (~ the jury) (~ duty) c — used as a function word to indicate position or status in proper relationship with a standard or objective (~ schedule) 7 a — used as a function word to indicate reason, ground, or basis (as for an action, opinion, or computation) (I have it ~ good authority) (~ one condition) (the interest will be 10 cents ~ the dollar) b — used as a function word to indicate the cause or source (profited ~ the sale of stock) c — used as a function word to indicate the focus of obligation or responsibility (drinks are ~ the house) (put the blame ~ my actions) 8 a — used as a function word to indicate the object of collision, opposition, or hostile action (bumped my head ~ a limb) (an attack ~ religion) (pulled a gun ~ me) b — used as a function word to indicate the object with respect to some disadvantage, handicap, or detriment (has three inches in height ~ me) (a 3-game lead ~ the second-place team) (the joke's ~ me) 9 a — used as a function word to indicate destination or the focus of some action, movement, or directed effort (crept up ~ him) (feast your

eyes ~ this) (working ~ my skiing) (made a payment ~ the loan) b — used as a function word to indicate the focus of feelings, determina-

tion, or will (have pity ~ me) (keen ~ sports) (a curse ~ you) c — used as a function word to indicate the object with respect to some misfortune or disadvantageous event (the crops died ~ them) d — used as a function word to indicate the subject of study, discussion, or consideration (a book ~ insects) (reflect ~ that a moment) (agree ~ price) 10 — used as a function word to indicate reduplication or suc-

cession in a series (loss ~ loss)

on adv (bef. 12c) 1 a : in or into a position of contact with an upper surface esp. so as to be positioned for use or operation (put the plates ~) b : in or into a position of being attached to or covering a surface; esp : in or into the condition of being worn (put his new shoes ~) 2 a : forward or at a more advanced point in space or time (went ~ home) (later ~) b : in continuance or succession (rambled ~) (and so ~) 3 : into operation or a position permitting operation (switched the light ~)

on adj (ca. 1541) 1 : engaged in an activity or function (as a dramatic role) 2 a (1) : being in operation (the radio is ~) (2) : placed so as to permit operation (the switch is ~) b : taking place (the game is ~) 3 : aware of something — usu. used with to (my boss was ~ to me) 4 : INTENDED, PLANNED (has nothing ~ for tonight) 5 Brit : talking or harping incessantly — used with about 6 chiefly Brit : regarded as possible or feasible — usu. used in negative constructions 7 a : engaged in or as if in a performance (the comedian was always ~) b : being at a high level of performance

1-on n suffix [ISV, alter. of -one] : chemical compound not a ketone or other oxo compound (parathion)

2-on n suffix [fr. -on (in ion)] 1 : subatomic particle (neutron) 2 a : unit ; quantum (photon) (magneton) b : basic hereditary compo-

nent (cistron) (operon)

3-on n suffix [NL, fr. -on (in argon)] : noble gas (radon)

on-again, off-again adj (1948) : existing briefly and then disappearing in an intermittent unpredictable way (on-again, off-again fads)

on-a-ger \ā-nī-'jōr n [ME, wild ass, fr. L, fr. Gk onagros, fr. onos ass + agros field — more at ACRE] (14c) 1 : an Asian wild ass (Equus hemionus onager syn. E. onager) that usu. has a broad dorsal stripe and is related to the kiang 2 [LL, fr. L] : a heavy catapult used in ancient and medieval times

on and off adv (1855) : OFF AND ON — on-and-off adv

onan-ism \ō-nā-nī-zəm n [Prob. fr. NL onanism, fr. Onan, son of Judah (Gen 38:9) (ca. 1741) 1 : MASTURBATION 2 : COITUS INTERRUPTUS 3 : SELF-

GRATIFICATION — onan-istic \ō-nā-'nis-tik adj

on-board \ōn-'bōrd, 'ān-, 'bōrd adj (1960) : carried within or occur-

ring aboard a vehicle (as a satellite or spacecraft) (an ~ computer)

once \wɔn(t)əs adj [ME ones, fr. gen. of on one] (12c) 1 : one time and no more 2 : at any one time ; under any circumstances : EVER 3 : at some indefinite time in the past : FORMERLY 4 : by one degree of relationship — once and for all 1 : with finality : DEFINITELY 2 : for the last time

2-once n (13c) : one single time ; one time at least — at once 1 : at the same time : SIMULTANEOUSLY 2 : IMMEDIATELY 3 : BOTH

3-once adj (1691) : that once was : FORMER

once cony (1761) : at the moment when : AS SOON AS

once-over \wɔn(t)əs-ō-vər, 'wɔn(t)əs-ə n (1914) : a swift examination or survey; esp : a swift comprehensive appraising glance

once that cony (1874) : ONCE

on-cho-er-ci-a-sis \āp-kō-'sār-'kī-ə-səs n, pl -a-ses -sēz [NL, fr. Onchoerca, genus of worms] (1911) : infestation with or disease caused by filarial worms (genus Onchoerca); esp : a human disease caused by a worm (O. volvulus) that is native to Africa but now present in parts of tropical America and is transmitted by several blackflies

on-cid-i-um \ān-'sī-dē-əm, 'āp-'kī-ə n [NL, fr. Gk onkos barbed hook — more at ANGLE] (ca. 1868) : any of a genus (Oncidium) of showy tropical American chiefly epiphytic orchids

onco- cony [NL, fr. Gk onkos bulk, mass; akin to Gk enenkein to carry — more at ENOUGH] : tumor (oncology)

on-co-gene \āp-kō-'jē-n n (1969) : a gene having the potential to cause a normal cell to become cancerous

on-co-gen-e-sis \āp-kō-'jē-n-əs n [NL] (ca. 1932) : the induction or formation of tumors

on-co-gen-ic \-jē-nik adj (1936) 1 : relating to tumor formation 2 : tending to cause tumors

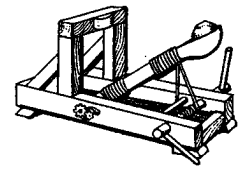
on-co-ge-nic-i-ty \-jə-'ni-sə-tē n (1944) : the capacity to induce or form tumors

on-col-o-gy \ān-'kō-lō-'jē, 'āp- n (ca. 1857) : the study of tumors — on-colog-i-cal \-jē-'kō-'lō-'jē-'kəl also on-co-log-ic -i-'jē-'kəl adj — on-col-og-ist \ān-'kō-lō-'jīst, 'āp- n

on-com-ing \ōn-'kō-mīŋ, 'ān- adj (1844) 1 a : coming nearer in time or space (the ~ year) (an ~ car) b : FUTURE (looked forward to his ~ visit) 2 : EMERGENT, RISING (the ~ generation)

on-cor-na-vi-rus \āp-'kōr-nā-'vī-rəs n [onco- + RNA + virus] (1970) : any of a group of RNA-containing viruses that produce tumors

one \wɔn adj [ME on, an, fr. OE ān; akin to OHG ein one, L unus (OL unus), Skt eka] (bef. 12c) 1 : being a single unit or thing (~ day at a time) 2 a : being one in particular (early ~ morning) b : being preeminently what is indicated (~ fine person) 3 a : being the same in kind or quality (both of ~ species) b (1) : constituting a unified entity of two or more components (the combined elements form ~ substance) (2) : being in agreement or union (am ~ with you on this) 4 a : SOME I (will see you again ~ day) b : being a certain individual



onager 2

\ə\ about \v\ kitten, F table \ər\ further \ə\ ash \æ\ ace \æ\ mop, mar \ə\ out \tʃ\ chin \e\ bet \e\ easy \g\ go \h\ hit \h\ ice \j\ job \ŋ\ sing \ŋ\ go \d\ law \ɔ\ boy \θ\ thin \θ\ the \ü\ loot \f\ foot \y\ yet \z\ vision \ä, k, ʳ, œ, œ, u, ē, ü, see Guide to Pronunciation

specified by name (~ John Doe made a speech) 5: ONLY 2 (the ~ person she wanted to marry)

one *n* (bef. 12c) 1 — see NUMBER table 2: the number denoting unity 3 a: the first in a set or series — often used with an attributive noun (day ~) b: an article of clothing of a size designated *one* (wears a ~) 4: a single person or thing (has the ~ but needs the other) 5: a one-dollar bill — at *one*: at harmony; in a state of agreement — for *one*: as one example (I for one disagree)

one *pron* (13c) 1: a certain indefinitely indicated person or thing (saw ~ of his friends) 2 a: an individual of a vaguely indicated group: anyone at all (~ never knows) b — used as a third person substitute for a first person pronoun (I'd like to read more but ~ doesn't have the time) 3: a single instance of a specified action (felt like belting him ~ — John Casey)

usage Sense 2a is usu. a sign of a formal style. A formal style excludes the participation of the reader or hearer; thus *one* is used where a less formal style might address the reader directly (for the consequences of such choices, *one* has only oneself to thank — Walker Gibson). This generic *one* has never been common in informal use in either British or American English, and people who start sentences with *one* often shift to another pronoun more natural to casual discourse (when *one* is learning the river, he is not allowed to do or think about anything else — Mark Twain). Use of *one* to replace a first-person pronoun — sense 2b — has occas. been criticized. It is more common in British English than in American (I'm watching this pretty carefully and I hope that the issue will come up in the Lords and *one* may be able to speak about it — Donald Coggan, Archbishop of Canterbury).

one *n* suffix [ISV, alter. of *-ene*]: ketone or related or analogous compound or class of compounds (lactone) (quinone)

one another *pron* (1526): EACH OTHER **usage** see EACH OTHER

one-armed bandit \wən-ˈɑrmd-ˌbændɪt/ *n* (1934): SLOT MACHINE 2

one-bagger \ˈbɑg-ər/ *n* (1952): SINGLE 2

one-di-men-sion-al *adj* (1883) 1: having one dimension 2: lacking depth: SUPERFICIAL (~ characters) — **one-di-men-sion-al-ity** *n*

one-fold \wən-ˈfɔld, -ˈfɔld/ *adj* (bef. 12c): constituting a single undivided whole

one-handed \ˈhɑn-dəd/ *adj* (15c) 1: having or using only one hand (could beat him up ~) 2 a: designed for or requiring the use of only one hand b: effected by the use of only one hand

one-horse \ˈhɔrs/ *adj* (1750) 1: drawn or operated by one horse 2: SMALL, SMALL-TIME (a ~ town)

Oneida \ˈoʊ-ni-də/ *n*, *pl* **Oneida** or **Oneidas** [Oneida *oneyóte*, lit., standing rock] (1666) 1: a member of an American Indian people orig. of New York 2: the Iroquoian language of the Oneida people

onei-ric \ˈoʊ-ni-rik/ *adj* [Gk *oneiros* dream; akin to *Arm anur*] dream (1859): of or relating to dreams: DREAMY — **onei-ri-cal-ly** \ri-k(ə)-li/ *adv*

onei-ro-man-cy \ˈoʊ-ni-rə-ˈmɑn(t)-sə/ *n* [Gk *oneiros* + E *-mancy*] (1652): divination by means of dreams

one-line octave *n* (1931): the musical octave that begins on middle C — see PITCH illustration

one-liner \wən-ˈli-nər/ *n* (1967): a very succinct joke or witticism

one-man *adj* (1842): of or relating to just one individual: as a: consisting of only one individual (a ~ committee) b (1): done, presented, or produced by only one individual (a ~ stage play) (2): featuring the work of a single artist (as a painter) (a ~ show of oils) c: designed for or limited to one individual

one-ness \wən-nəs/ *n* (1594): the quality or state or fact of being one: as a: SINGLENESS b: INTEGRITY, WHOLENESS c: HARMONY d: SAME-NESS, IDENTITY e: UNITY, UNION

one-night-er \wən-ˈni-tər/ *n* (ca. 1937): ONE-NIGHT STAND

one-night stand *n* (1880) 1: a performance (as of a play or concert) given (as by a traveling group of actors or musicians) only once in each of a series of localities 2 a: a locality used for one-night stands b: a stopover for a one-night stand 3: a sexual encounter limited to a single occasion; also: a partner in such an encounter

one-note \wən-ˈnoʊt/ *adj* (1973): unvarying in tone or emphasis: MONOTONOUS

one-off \wən-ˈɒf/ *adj* (1934) *Brit*: limited to a single time, occasion, or instance: ONE-SHOT, UNIQUE — **one-off** *n*

one-on-one \wən-ɒn-ˈwən, wən-ɒn-ˈwən/ *adj* or *adv* (1967) 1: playing directly against a single opposing player 2: involving a direct encounter between one person and another

one-piece *adj* (1880): consisting of or made in a single undivided piece (a ~ bathing suit) — **one-piece-er** \wən-ˈpi:s-ər/ *n*

oner-ous \ə-ˈnə-rəs, ˈɒ-ˈ/ *adj* [ME, fr. MF *onerous*, fr. L *onerosus*, fr. *oner*, *onus* burden; akin to *Skt anas-tik*] (14c) 1: involving, imposing, or constituting a burden: TROUBLESOME (an ~ task) 2: having legal obligations that outweigh the advantages (~ contract) — **oner-ous-ly** *adv* — **oner-ous-ness** *n*

syn ONEROUS, BURDENSOME, OPPRESSIVE, EXACTING mean imposing hardship. ONEROUS stresses being laborious and heavy esp. because distasteful (the *onerous* task of cleaning up the mess). BURDENSOME suggests causing mental as well as physical strain (*burdensome* responsibilities). OPPRESSIVE implies extreme harshness or severity in what is imposed (the *oppressive* tyranny of a police state). EXACTING implies rigor or sternness rather than tyranny or injustice in the demands made or in the one demanding (an *exacting* employer).

one-self \wən-ˈsɛlf, Southern also -ˈsɛf/ also **one's self** \wən-ˈwanz-ˈ/ *pron* (1548) 1: a person's self: one's own self — used reflexively as object of a preposition or verb or for emphasis in various constructions 2: one's normal, healthy, or sane condition or self — **be oneself**: to conduct oneself in a usual or fitting manner

one-shot \wən-ˈʃɑt/ *adj* (1927) 1: that is complete or effective through being done or used or applied only once (there is no easy ~ answer to the problem) 2: that is not followed by something else of the same kind (a ~ tax cut) — **one-shot** *n*

one-sided \wən-ˈsi-dəd/ *adj* (1813) 1 a (1): having one side prominent: LOPSIDED (2): having or occurring on one side only b: limited to one side: PARTIAL (a ~ interpretation) 2: UNILATERAL (a ~ decision) — **one-sided-ly** *adv* — **one-sided-ness** *n*

ones place *n* (1976): UNITS PLACE

one-step \wən-ˈstɛp/ *n* (1911) 1: a ballroom dance in ¾ time marked by quick walking steps backward and forward 2: music used for the one-step — **one-step** *vi*

one-stop \ˈstɒp/ *adj* (1934): being or relating to a business that provides a complete range of goods or services of a particular kind

one-tailed \wən-ˈtæɪld/ also **one-tail** \ˈtæɪl/ *adj* (1947): being a statistical test for which the critical region consists of all values of the test statistic greater than a given value or less than a given value but not both — compare TWO-TAILED

one-time \wən-ˈtɪm/ *adj* (1840) 1: FORMER, SOMETIME (a ~ actor) 2: occurring only once: ONE-SHOT

onetime *adv* (1886): FORMERLY

one-to-one \wən-ˈtə-ˈwən, -də-ˈ/ *adj* (1873) 1: pairing each element of a set uniquely with an element of another set 2: ONE-ON-ONE 2

one-track *adj* (1926): marked by often narrowly restricted attention to or absorption in one thing (a ~ mind)

one-two \wən-ˈtuː, -tʊ/ *n* (1809) 1: a combination of two quick blows in rapid succession in boxing; esp: a left jab followed at once by a hard blow with the right hand 2 or **one-two punch**: a combination of two forces acting against something

one-up \wən-ˈʌp, wən-ˈ/ *fr.* *one-upmanship* (1963): to practice one-upmanship on

one up *adj* (1919): being in a position of advantage — usu. used with *on*

one-up-man-ship \wən-ˈʌp-mən-ˈʃɪp/ also **one-ups-man-ship** \ˈʌps-mən-ˈ/ *n* (1952): the art or practice of outdoing or keeping one jump ahead of a friend or competitor (engaged in a round of verbal ~)

one-way *adj* (1824) 1: that moves in or allows movement in only one direction (~ street) 2: ONE-SIDED, UNILATERAL (a ~ conversation) 3: that functions in only one of two or more ways

on-go-ing \ˈɒn-ˈgəʊ-ɪŋ, ˈɑn-, -ˈgəʊ-ɪŋ/ *adj* (1877) 1 a: being actually in process b: CONTINUING 2: continuously moving forward: GROWING — **on-go-ing-ness** \-nəs/ *n*

on-ion \ˈɒn-ɪən/ *n* [ME, fr. MF *oignon*, fr. L *unio*-, *unio*] (14c) 1: a widely cultivated Asian herb (*Allium cepa*) of the lily family with pungent edible bulbs; also: its bulb 2: any of various plants of the same genus as the onion — **on-ion-y** \-ɪə-nē/ *adj*

onion dome *n* (1941): a dome (as of a church) having the general shape of an onion — **onion-domed** *adj*

onion ring *n* (1946): a ring of sliced onion coated with batter or crumbs and fried

on-ion-skin \-ˈskɪn/ *n* (1879): a thin strong translucent paper of very light weight

oni-um \ˈɒ-ni-əm/ *adj* [*-onium*] (1905): being or characterized by a usu. complex cation

-onium *n* suffix [NL, fr. *oniumium*]: an ion having a positive charge (*hydronium*) — compare -JUM 1b

on-line *adj* or *adv* (1950): connected to, served by, or available through a system and esp. a computer or telecommunications system (an ~ database); also: done while connected to a system (~ computer storage)

on-look-er \ˈɒn-lʊk-ər, ˈɑn-ˈ/ *n* (1606): one that looks on; esp: a passive spectator — **on-look-ing** \-kɪŋ/ *adj*

on-ly \ˈɒn-lē/ *adj* [ME, fr. OE *ānlic*, fr. *ān* one — more at ONE] (bef. 12c) 1: unquestionably the best: PEEPLESS 2: alone in its class or kind: SOLE (an ~ child)

only *adv* (14c) 1 a: as a single fact or instance and nothing more or different: MERELY (has ~ lost one election — George Orwell) b: SOLELY, EXCLUSIVELY (known ~ to him) 2: at the very least (it was ~ too true) 3 a: in the final outcome (will ~ make you sick) b: with nevertheless the final result (won the battles, ~ to lose the war) 4 a: as recently as (~ last week) b: in the immediate past (~ just talked to her)

usage The placement of *only* in a sentence has been a source of studious commentary since the 18th century, most of it intended to prove by force of argument that prevailing standard usage is wrong. After 200 years of preaching the following observations may be made: the position of *only* in standard spoken English is not fixed, since ambiguity is avoided through sentence stress; in casual prose that keeps close to the rhythms of speech *only* is often placed where it would be in speech; and in edited and more formal prose *only* tends to be placed immediately before the word or words it modifies.

only *conj* (14c) 1 a: with the restriction that: BUT (you may go, ~ come back early) b: and yet: HOWEVER (they look very nice, ~ we can't use them) 2: were it not that; EXCEPT (I'd introduce you to her, ~ you'd win her — Jack London)

on-o-mas-tic \ə-ˈnə-mas-tɪk/ *adj* [Gk *onomastikos*, fr. *onomazein* to name, fr. *onoma* name — more at NAME] (1716): of, relating to, or consisting of a name or names — **on-o-mas-ti-cal-ly** \-tɪ-k(ə)-li/ *adv*

on-o-mas-tics \-tɪks/ *n* *pl* but *sing* or *pl* in *constr* (1930) 1 a: the science or study of the origins and forms of words esp. as used in a specialized field b: the science or study of the origin and forms of proper names of persons or places 2: the system underlying the formation and use of words esp. for proper names or of words used in a specialized field — **on-o-mas-ti-cian** \ə-ˈnə-mas-tɪ-ʃən/ *n*

on-o-ma-tol-o-gy \ə-ˈnə-mə-ˈtɒ-lə-ˈdʒi/ *n* [F *onomatologie*, fr. Gk *onomat*-, *onoma* name + F *-logie* -logy] (ca. 1847): ONOMASTICS — **on-o-ma-tol-o-gist** \-dʒɪst/ *n*

on-o-mato-poe-ia \ə-ˈnə-mə-ˈtə-ˈpe-ə-, -mə-ˈ/ *n* [LL, fr. Gk *onomatopoiia*, fr. *onomat*-, *onoma* name + *poiein* to make — more at POET] (ca. 1577) 1: the naming of a thing or action by a vocal imitation of the sound associated with it (as buzz, hiss) 2: the use of words whose sound suggests the sense — **on-o-mato-poe-ic** \-ˈpe-ɪk/ or **on-o-mato-po-et-ic** \-pə-ˈe-tɪk/ *adj* — **on-o-mato-poe-i-cal-ly** \-ˈpe-ɪ-k(ə)-li/ or **on-o-mato-po-et-i-cal-ly** \-pə-ˈe-tɪ-k(ə)-li/ *adv*

On-on-da-ga \ə-ˈnɒ-n(ə)-ˈdɒ-gə-, ˈdɑ-, ˈdɑ-/ *n*, *pl* *-ga* or *-gas* [Onondaga *onǫ́dʰa*, the chief Onondaga town] (1684) 1: a member of an American Indian people of New York and Canada 2: the Iroquoian language of the Onondaga people

on-ramp \ˈɒn-ræmp, ˈɑn-ˈ/ *n* (1958): a ramp by which one enters a limited-access highway

on-rush \ˈɒn-rʌʃ, ˈɑn-ˈ/ *n* (1844) 1: a rushing forward or onward 2: ONSET — **on-rush-ing** \-rɪ-ʃɪŋ/ *adj*