EXHIBIT 4



IN THE UNITED STATES DEPARTMENT OF COMMERCERECENV PATENT AND TRADEMARK OFFICE

jijii 0 6 1993

In re application of:

GROUP SAND

Inventors: Barnhard, et al.

Serial No.: 390,623

Paper No. 23

U.S. Filing Date: August 7, 1989

Examiner: Laura Brutman Art Unit: 2311

For: Central Check Clearing System

41 South High Street

Attorney Docket No.: 1260900-50349 Columbus, Ohio 43215

June 29, 1993

The Honorable Assistant Secretary and Commissioner of Patents. and Trademarks

ashington, D.C. 20231

SECOND AMENDMENT AFTER FINAL ACTION AND STATEMENT PURSUANT TO 37 C.F.R. \$1.116(b)

I. Introduction

This is a response to the advisory action mailed in this application on May 20, 1993. Entry of this amendment, reexamination and reconsideration are requested. A Statement Pursuant to 37 C.F.R. \$1.116(b) setting forth the reasons for entry of this Amendment is included at page 10, infra.

By Express Mail, Receipt No. 980625349, June 29, 1993

H. Amend-Claims 7 and 10 as-Follows:

physically exchanging financial for instruments number of pre-selected financial among institutions, each located at a preselected site, and for effecting the regular periodic settlement of the exchanged instruments among the institutions including:

(A) means within each of the pre-selected institutions: (1) for sending and receiving the instruments, said means for sending including means for physically transporting the instruments from an institution at one site to each other of the institutions at the other sites, said means for receiving including means for physically accepting the instruments transported from the other institutions;

PAB (2) for sending to and receiving from a central processing unit connected to each institution information reporting in real time in correspondence with the occurrence of an event (a) the value of the instruments transported; and (b) the transport status of the instruments with

;:

respect to their having been (i) sent and (ii) received; and

Pals (3) for receiving from the central processing unit a calculated value .(a) on a real time basis and (b) on a regular periodic settlement basis, information regarding the debits and credits owing to or payable by an institution with respect to each other of the institutions with regard to instruments sent and received;

a central processing unit connected to each of the pre-selected institutions including

PJB (1) means for continuous monitóring on a real time basis, as reported by each institution by the means for sending information within each institution:

93 (a) (i) the sending and receipt status of the instruments and (ii) the value of the instruments sent and received, as reported by each of the institutions, and

> (b) the status in transit of the instruments with respect to their having been (i) sent and (ii) received, as reported by each of the institutions, according to the reporting



of an institution's sending and receiving of instruments

Paß (2) means for calculating debits and credits, based on the value of the instruments sent and received by the institutions, as monitored on a real time basis from information reported by the institutions, of (a) the amount owing from or payable to o£ ' each one the pre-selected institutions with respect to each of the other institutions and (b) an aggregate amount owing

PLB

institutions; and

(3) means for sending to each institution the information monitored with respect to instruments sent to an institution and the value of such instruments; and

from or payable to each one of the pre-selected institutions with respect to all of the other

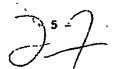
(C) a cycling means interrelated with the central processing unit (a) for controlling the physical transport of the financial instruments among institutions and (b) for controlling the means calculating such that a final calculation of the debits and credits owing from or payable to,



respect to each of the institutions with regard to each other of the institutions, comprising the occurrence of the regular periodic settlement among the institutions, does not occur until pre-determined local settlements by the institutions in the pre-selected sites with institutions that are not among the number of pre-selected financial institutions, are completed.

TO. A system for a financial clearinghouse comprised of an association of selected member financial institution participants situated in different localities including:

A. means at each of the participants (1) for sending and receiving financial instruments to be cleared and (2) for sending and receiving in real time information reporting the value and transit status of the financial instruments to be cleared, to a programmed central processing unit, and (3) for addressing the central processing unit by which a participant may determine in real time the information received by the processing unit with respect to that participant's relative credit and debit obligations with respect to other institutions arising from the instruments that are reported to be sent and received;



a programmed central processing unit including:

means for calculating debits and credits owing from or payable (1) to one member to another member and (2) from or to one member to all other members, based upon the value of instruments reported by a participant as having been sent and received;

means for receiving and recording a participant's reports of the value and transit status of the instruments to be cleared as having been sent and received with respect to all participants system; and

means for monitoring on a real time as reported basis (1) the actual sending from and receipt by a participant of the value of instruments being cleared as reported by the participants, and (2) the sendingfrom and receipt by a participant of the actual instruments being cleared, said means for monitoring being operatively interconnected to the means for calculating whereby debits and credits owing from one member to another may be determined and monitored on a continuous basis in real time as reports of the value and transit status of the instruments to be cleared are reported by the participants and received by the processing unit; and

a time control for determining the time of physical transport of financial instruments between and among the participants according to a predetermined time cycle, and for determining the occurrence of a final settlement by the clearinghouse participants at a pre-determined time until after a time that certain pre-determined local settlements in the localities, by the participants in the localities, are completed.

III. Remarks

The Examiner's withdrawal of the rejection under 35 U.S.C. §112 is noted. The foregoing amendments are made in view of Examiner's continuation of the rejection under 35 U.S.C. §103.

The claims and cited references S, T and U were discussed in detail in the Amendment filed on May 5, 1993 (Paper No. 20). In general, the references related to settlement mechanisms and methods for electronic funds transfer.

Applicant submits that amended claims 7 and 10 patentably distinguish the invention over the references of record.

As amended claims 7 and 10 now clarify the invention, the real time component of the mechanism and the provision of continuous reporting is set forth in a Combination that otherwise includes a plurality of institutions at different sites, the exchange of physical instruments by transportation means, and the coordination of the net settlement, in real

time, as information about the instruments and their value are reported as sent and received under the umbrella of a predetermined schedule or cycle. In contrast, typical clearings between two banks need not be accomplished according to a schedule. And net settlements among a plurality of banks occur at a single location, at which the settlement instruments are exchanged, at a fixed time.

In the invention of the amended claims, the fluidity of a real time mechanism is evident as opposed to the static clearing and settlement mechanism of the references. Namely, once data is entered, the information is there for all participants to see. The monitoring of data, in co-ordination with the physical exchange of instruments as they are dispatched and received for settlement speeds up the clearing process. The mechanism is not simply a physical exchange, nor is the mechanism merely an electronic funds transfer. The mechanism of the amended claims co-ordinates both in a system in which actual instruments are exchanged between and among institutions. Real time coordination occurs continuous reporting and monitoring allow for efficient funds management, i.e., the preparation of funds needed to effect settlement, or the utilization of funds received at settlement, or to plan for the utilization of mechanical sorters, which would otherwise sit idle. In the system of the claimed mechanism, the institutions do not need to "wait until the witching hour" (as in conventional settlements) when funds and

instruments are physically settled to determine their respective liabilities. The mechanism is a continuous and active process conducted and monitored by a plurality of participants, as the instruments are in various stages of transport and/or exchange, in real time; and as the participants' settlement obligations are determined, they are available for continuous monitoring by the participants.*

For these reasons, the amendments to claims 7 and 10 are considered to result in their allowability. The dependent claims, 8 and 9, dependent on claim 7, and 11 and 12, dependent on claim 10, relate to variations of sorter configuration in the systems of claims 7 and 10 and are distinguishable over the references cited as are the claims on which they depend.

Reexamination, reconsideration and allowance are therefore requested.

IV. Submission of Proposed Formal Drawings

Appended hereto is one sheet of formal drawings for which the Examiner's approval is requested. The proposed drawing (Figure 1) conforms to the informal drawing originally submitted. Extraneous material is deleted.

An article from the ABA Banking Journal, May 1993 (pages 62-65) entitled "Electronic check clearing alternatives take shape" is enclosed. The article describes the newly implemented NCHA/CHEXS system which utilizes the invention.

V. Statement Pursuant to 37 C.F.R. \$1.116(b)

Applicant submits that the foregoing emendment should be admitted because of the following good and sufficient reasons why it is necessary and was not earlier presented: .

Applicants consider the amendment places all claims in condition for allowance by avoiding the sole grounds under 35 U.S.C. §103 that are asserted for rejection. The allowability of the claims after a minor amendment is a classic reason justifying the entry of an amendment after final rejection. See M.P.E.P. §714.12.

Both the Examiner and applicants have carefully considered the references cited during prior prosecution of the application; no additional search is required. evident that the clarifying distinction made in amended claims 7 and 10 puts the application in condition for allowance.

VI. Conclusion

It is requested that the amendment be entered and this application allowed and passed to issue.

Respectfully submitted,

Edwin M. Baranowski

Reg. No. 27,482 PORTER, WRIGHT, MORRIS & ARTHUR 41 South High Street, Suite 2800 Columbus, Ohio 43215 (614) 227-2188

CERTIFICATE OF FILING BY EXPRESS MAIL

I hereby certify that this Second Amendment After Final Action and Statement Pursuant to 37 C.F.R. §1.116(b) (including proposed formal drawing and copy of article) accompanied by a Petition for Extension of Time and Payment of Fee Under 37 C.F.R. §1.136 (2 copies), Check No. 214743, a cover letter and post card receipt in the below captioned application, are being deposited with the United States Postal Service (Postage prepaid, Express Mail, Receipt No. 980625371) in an envelope addressed to The Honorable Commissioner of Patents and Trademarks, Attention: Box AF, Washington, D.C. 20231, on June 29, 1993 and pursuant to the provisions of 37 C.F.R. 1.10, it is requested that June 29, 1993 be the filing date accorded to these documents. these documents.

> Edwin M. Baranowski Porter, Wright, Morris & Arthur 41 South High Street Columbus, Ohio (614) 227-2188 43215

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BAR/1546/59-69

COVER REPORT/OPERA

Electronic check clearing alternatives take shape

There's a brave new world of check clearing on the horizon, and paper checks have little to do with it...maybe

f your memory is long enough in this business you'll recall numerous attempts at rolling back the sea of paper checks processed and cleared by banks each year.

The automated clearing house system, after all, was intended to do this. While it has slowed check growth, it hasn't reversed the upward trend of check volume in the two decades since the system was created. Check truncation, electronic check collection, and other efforts to reduce the paper flow have also been introduced, and some of them remain active.

Will the '90s bring a different approach to check processing? Quite possibly, yes.

For one thing, increased competition continues to press banks to contain costs and improve operating efficiency. For another, electronic technology has advanced a lot farther than the early days of the ACH. As a result, several electronic check clearing and truncation projects hold promise for reducing or at least maintaining the

cost of clearing paper checks.

Proponents admit that big cost reductions won't come in the short term. But there is a strong possibility that banks will see reductions in loss exposures, a general containment of the estimated \$40 billion tab spent each year on check clearing, and new opportunities to enhance revenue streams through check services.

Privatisation. By modernizing the check clearing process, many bankers also hope the industry will be able to wrest control of the payments system from the Federal Reserve.

"Privatization of the payments sys-

Writer Patricia A. Murphy covers electronic banking developments from Takoma Park, Md.



Check Volume (in billions)

tern is absolutely necessary for the survival of banking," insists Dick Ercole, president of Huntington Technology Co., Columbus, Ohio. "It's really the last franchise we have."

The Huntington Bancshares unit manages a new national check-exchange system called the National -Clearinghouse Association (NCHA). The system is an example of a joint-venture approach to check-clearing that competes with the Fed and works to improve revenue streams for mem-

NCHA, which is also known as CHEXS (for Check Exchange System), is the product of an alliance between Huntington; Littlewood, Shain & Company (an Exton, Pa.-based consulting firm); and U.S. Check (a Columbus-based air courier service). The organization was created in 1992 to provide a national check clearing and settlement apparatus through member participation in local clearing

and check clearing. The primary intent of NCHA was to undercut the prices charged by Pederal Reserve Banks for check-collection services by expanding the local clearing house mechanism nationwide. But already, NCHA members are preparing to exploit their affiliations with the group to enhance correspondent and corporate cash-management services.

"There are a lot of products that can come out of these initiatives," notes Ercole. Among them: check clearing for downstream correspondents, electronic check returns, and enhanced cash-management reporting.

At last count, there were 18 banks: participating in the CHEXS system;

◆ COVER REPORT/OPERALIONS ◆

exchanging checks in about 30 cities. Banks participating in NCHA agree to accept checks from all other members of the national clearing house for presentment to paying banks through local clearing house affiliations.

From the vantage of Ercole and others, NCHA is ideally suited for banks looking to contain costs without the large up-front investments required of other, high-technology approaches to check clearing, like electronic check presentment (ECP).

NCHA members, Ercole explains, incur a total cost of 1.05 cents for each check cleared through the system. compared with anywhere from one cent to five cents per item for clearing checks through the Federal Reserve. And unlike electronic check presentment, NCHA requires no new investments in software.

"It's definitely cheaper than ECP." says Ercole of the NCHA approach to clearing checks.

Perhaps. But ECP brings to the table its own set of advantages, a fact that Ercole concedes. "ECP is ulti-

CHECK-CLEARING TERMS AND PLAYERS

Alternative check-clearing arrangements are unhering in a whole new vernecular for the check operations business. The following are some of the more

commonly used terms in today's check-clearing community.

• ECP Clactronic Check Presentment: The generic acronym used to describe the process of transmitting check magnetic ink cheracter recognition (MICR) information electronically sheed of the actual movement of paper items. In the traditional sense, ECP is a benicho-bank process. But the data necessary to present checks electronically also can be captured at the point of sale, thereby

present chacks electronically also can be captured at the point of sale, thereby entering the merchant into the process.

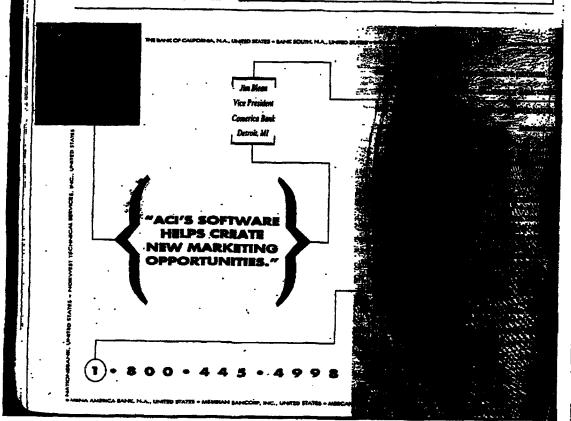
• ECCHO (Electronic Check Clearing House Organization): An organization of banks that are pursuing ECP, Participants provide electronic prenotifications to one another of large-doller chacks, followed by later presentment of the items.

• NACS (National Association for Check Safekseping): An organization of banks that aims to stop the flow of paper checks completely and clear check payments using special automated clearing house (ACH) formats. NACS represents the "lasper bank model" of check truncation, where the bank of first demonstrations the alternation learn and passage on only information relevant to the

sents the "keeper bank model" of check truncation, where the bank of first deposit retains the physical item:and passes on only information relevant to the clearing process; the physical item:an enversetumed to the check writer.

• NCHA (Netional Clearing bouse Association): A national organization designed to leverage the local check clearing house arrangement on a national scale. NCHA members agree to accept checks from all other members for presentment to paying banks through local clearing house arrangements. Accounting information releted to presentments is handed over to a specialized network, the Check Exchange System; net sattlement for check exchanges occurs through a special account-melitained with the Federal Reserve.

• Truncation: Stopping:the flow of paper, checks completely and converting payment information to electronic form: Inits typical truncation program, the physical checks are kept for a time before billing microfilmed and destroyed.



COVER REPORT/OPERATIONS

mately the way to go," relates Ercole. who as a former executive with Security Pacific Bank once sat on the board of directors of the Electronic Check Clearing House Organization (ECC-CHO), a national ECP group.

NCHA. Ercole adds, provides a transition to ECP for banks that aren't ready for or can't afford the technology necessary to make ECP a reality. Looking forward, he suggests, even NCHA will venture into ECP.

RCP advantages. ECP offers an array of clearing advantages: reduced dependency on processing equipment and transportation services. float savings, later deposit deadlines, and earlier return check notifications, to name a few

"Each time a check goes through a sorter, it presents new opportunities for mishandling, paper jams, and other problems," explains Jay Simmons, vice-president, Citibank (Delaware).

In an ECP environment, the routing and payment information encoded on the magnetic ink character recognition (MICR) line is captured at the bank of first deposit. That bank transmits the MICR data directly to the paying bank or to an intermediary. Such as a correspondent bank, clearing house, or Federal Reserve Bank. In effect, the need for a prime pass run is eliminated when a bank accepts check presentments electronically. That translates into savings.

Transpertation savings. Because the most important check information—account numbers and payment amounts—is captured and transmitted early in the collection cycle in the ECP environment, there is no pressing need to transport checks physically to the paying bank.

"ECP diminishes the need for the speedy delivery of checks and therefore saves costs," observes Howard Wentworth, senior vice-president, CoreStates Financial Corp.. Philadelphia. ECP provides the ability to link the bank of first deposit with the paying bank overnight, he explains, meeting or exceeding the Reg CC guidelines for check availability.

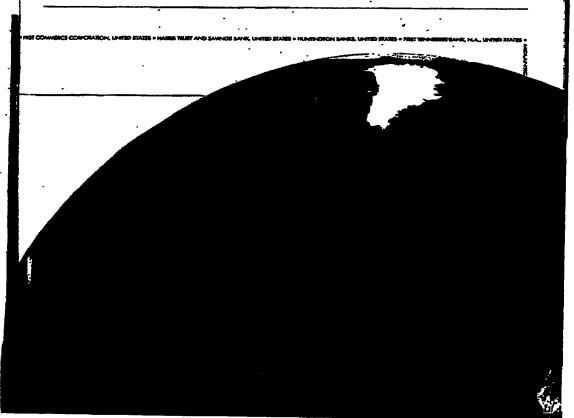
The paying bank already has

enough information to make a pay/no pay decision about the checks it receives. If the paying bank decides not to honor a particular check, it can alert the collecting bank of this fact before the paper checks are even shipped out, thereby providing the collecting bank with ample opportunity to withhold funds from the depositor of the check.

This reduces risk in the check collection process, particularly in a regulatory environment that requires availability on check deposits before many banks even learn of the imminent return of bad checks.

ECP's early days. "ECP is at the beginning of its evolution," explains William Toner, technology strategist with J.D. Carreker and Associates (JDCA), a Dallas-based consulting firm that provides administrative and software support for ECCHO. But those who champion ECP see great promise in the technology.

Besides ECCHO, which claims 19 banks exchanging check information electronically, there are ECP initiatives now taking shape within the Federal



"This activity will cause two out of three checks by the end of 1993 to be [cleared via] ECP," predicts Denny Carreker, JDCA president.

Sharing resources. Most of the ECP activity in the country is concentrated among large banks. The Fed's ECP work is a notable exception because it serves some of the smallest banks; many of which are located in remote regions such as the Upper Peninsula of Michigan.

Other efforts also are under way to spread the benefits of ECP throughout banking.

J.D. Carreker, for example, is working on a new network configuration that will provide utility support for broad-based ECP. Payment System Network (PSN), as the project is known, is intended to serve as an electronic version of the traditional check-clearing apparatus.

With the involvement of about a dozen bankers, existing IBM network systems, First Tennessee Bank's First Express check-courier service, and the New York Clearing House, JDCA plans to provide a utility function for the ECP-related data communications, transportation, and settlement activities

"PSN provides a structure where we can increase the number of banks participating in BCP, increase the types of transactions being processed, and increase the volume of transactions being processed," explains Toner. "The whole thing is leverage."

Community bankers view. "If we as community bankers don't find a way to deliver products and services at rock-bottom prices, we're not going to be able to stay independent community banks for very long," warms Susanne Boxer, president and CEO of \$60 million-assets Houghton National Bank, Houghton, Mich.

Boxer sees great promise in ECP. Her bank is one of three participating in an electronic check clearing pilot with the Federal Reserve Bank of Minneapolis, where the banks both send and receive check MICR information electronically.

Including the three banks that both send and receive check presentments, 17 Upper Peninsula banks receive check MICR data electronically from the Minneapolis Fed. If all of those banks were to participate in the sendreceive pilot, Boxer estimates 80% of Houghton's check clearing would be done electronically. That certainly would help contain costs, she notes.

"I don't think you'll see an immediate cost savings, but you'll see cost containment," says Boxer of the trend toward ECP.

Transition to truncation. Boxer has even greater hopes for check truncation. "The paper has got to come out of the system," she maintains. ECP, Boxer suggests, provides a transition step to truncation.

"If we as community bankers don't find a way to deliver products and services at rock-bottom prices, we won't be able to stay independent community banks for long"

—S. Boxer, Houghton Nat'l Bank

Boxer isn't alone in her truncation hopes. The Federal Reserve has been pushing truncation for years. Last year, the Fed joined forces with the National Association for Check Safekeeping (NACS) in a new test of the automated clearing house network to move truncated check data between banks.

To date, participation in the NACS pilot has been meager—two corporations, two payor banks, and ten Federal Reserve offices. The volume of checks truncated in the program reflects that fact; fewer than 100,000 items (all small-dollar rebase checks) were truncated during the first nine months of the program, according to officials at the National Automated Clearing House Association (NACHA), which administers NACS.

The Fed has had somewhat more success with its proprietary truncation efforts. Nearly 12 million checks per month are truncated by 11 Federal Reserve Banks, according to Johnna Frodin, vice-president, Federal Reserve Bank of Philadelphia and check product manager for the Federal Reserve System.

"Truncation is the king pin," says Frodin of the Fed's check-clearing endeavors. "The goal is to stop the pa-

So far, however, most interest in truncation has come from the U.S. Treasury Department and small financial institutions. Most bankers are uncomfortable forfeiting receipt of physical checks, Frodin notes.

ECP or imaging? What the Fed hopes will stimulate greater interest and a higher comfort level with truncation, Frodin adds. is imaging. In an imaging cavironment, a bank would receive images of checks drawn on it to aid in decisions (such as the payfno pay decision or signature verification) in lieu of the actual pieces of paper.

"We're looking for image to break down the barriers to truncation," Frodin explains.

But there is a catch: many bankers remain wary of imaging. Some, for example, feel that imaging requires too much of an up-front investment and not enough of a payback.

"I can get into ECP tomorrow for a couple of hundred thousand dollars," says Jay Simmons of Citibank. All that is needed is new software loaded ento existing hardware, he notes. By contrast, "imaging will cost me millions," he adds, and will require both hardware and software changes.

Even more importantly, the imaging nay-ayers contend, ECP and truncation support the banking industry's overall bent loward electronic payments processes and away from paper.

"Investing in NACS and ECCHO is an evolutionary step to creating a paperless payments system," observes Simmons, who sits on the ECCHO. board of directors and also serves as NACS's vice-president. But imaging does not remove paper from the clearing process, he aids. "The two are diametrically opposed."

Despite such assertions, the Fed seems as committed to imaging as it is committed to ECP and truncation.

Some bankers see the Fed predilection as symptomatic of a "managed withdrawal" from the checking business—that the only way the Fed can keep its check-collection prices in line with the chesper prices that will spring from emerging private-sector clearing arrangements is by reducing its dependency on check-processing equipment and transportation.

But as Frodin sees it, the variety of new clearing techniques and technologies will benefit the industry. "There are so many different needs and so many different niches, that there is no single new approach that is going to dominate tomorrow," she asserts.

ABA BANKING JOURNAL/MAY 1993

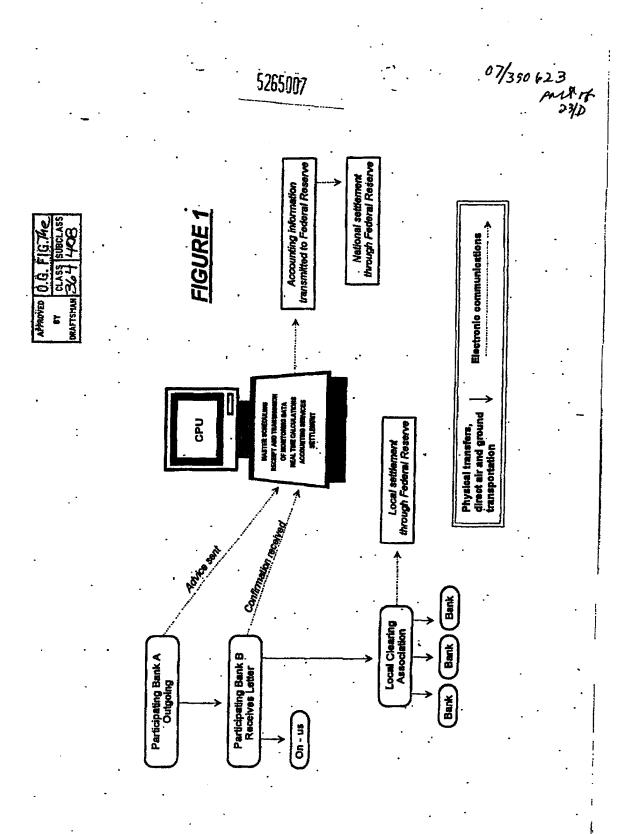


EXHIBIT 5

U.S. Patent No. 5,265,007 Claims asserted: 1, 2, 3, 4, 5, and 6

Z	Claim Term	Plaintiff's Proposed Constructions	Defendants Proposed Constructions	Claims Where Terms Appear
161.	Pre-selected financial institutions each located at a pre-selected site Pre-selected institutions	Financial institutions which have previously been selected to be members of or participants in the central check clearing system or a local clearinghouse.	Members of a centralized clearinghouse association, where each member is located in a specific and exclusive geographical region. Col.2 l.66 – col.3 l.3; col.3 l.24-28.	,
		Intrinsic evidence: '007 Patent at 1:44-52; 2:30-37; 2:66-3:7; 3:24-28; 5:13-18; 7-34-38; 10:25		
		Webster's Encyclopedic Unabridged Dictionary of the English Language, Random House, Inc., p. 1138 (1994) (defining "preselect" as "to select in advance; choose beforehand.") (Exhibit F)		
162.	Regular periodic settlement	Settlement of credit and debit balances between institutions at predetermined time intervals.	Settlement occurring at a "predetermined time each day." Col.2 l.35-37; col.3 l.5-10; col.4 l.7-10; Col.6 l.16-20.	.0;
		Intrinsic evidence: '007 Patent, at Abstract; Col. 2:9-16; 2:32-39, 2:47-49; 3:5-11		
163.	Real-time	The actual time during which something takes place.	The term has its ordinary meaning: occurring at the time of an event. Col.4 1.5-	Ÿ'

DataTreasury Corp. v. Citigroup Inc. et al.

Exhibit E of Joint Claim Construction Chart and Supporting Evidence

DataTreasury Corp. v. Citigroup Inc. et al.

Case 2:06-cv-00072-DF-CMC	Document 535	Filed 02/21/2007	Page 21 of 40

Page 21 of 4	Claim Term Value of the instruments transported
65.	Value of the instruments transported
166.	Transport status of the instruments
167.	The sending and receipt status
168.	The status in transit of the instruments
169.	According to the
	reporting of an institution's sending and receiving of the

	•		
Case 2:06-cv-00072-DF-CMC	Document 535	Filed 02/21/2007	Page 22 of 40

se	2:06-	cv-00072	2-DF-CMC	Doc	ument 53		ed 02/2	21/2007		Page 2	2 of 40
	176.	175.		174.	173.		172.		171.	170.	No.
institutions	Site locality of each other of the pre-selected	Institutions that are not among the number of preselected financial institutions	selected sites with institutions that are not among the number of preselected financial institutions	Pre-determined local settlement by the institutions in the pre-	Occurrence of the regular periodic settlement among the institutions		Debit and credits		Final calculation	Interrelated with the central processing unit	Claim Term
	Location of the other member financial institutions	Non-members of the clearinghouse.	Intrinsic evidence: '007 Patent, at Col. 2:55-61; 3:9-13; 4:52-54; 10:25-28	A settlement between a user and non-user of the clearinghouse that occurs at a regular interval	No construction is necessary.	Debits are the amounts payable to a financial institution.	Credits are the amounts owed by a financial institution.	Intrinsic evidence: '007 Patent, at 3:29-54	No construction is necessary.	Implemented as software.	Plaintiff's Proposed Constructions
	tutions.		daily. Col.2 1.55-61; Col.4 1.50-55; Col.5 1.26-45; Col.	A specific settlement between a member and specific non-members of the	The specific time each day when settlement of accounts between the members of the clearinghouse takes place.	<u>Credits</u> – amounts owed or payable to a financial institution	Debits – amounts owed or payable by a financial institution	of debits owing from and credits payable to each of the pre-selected financial institutions. Col. 6 1.16-20.	Calculation once a day by the clearinghouse		Defendants' Proposed Constructions
	2	1		,	Н		Н		1	1	Claims Where Terms Appear
	AGREED	AGREED		Defendants	Defendants		Defendants		Defendants	AGREED	Submitting Party

Case 2:06-cv-00072-DF-CMC	Document 535	Filed 02/21/2007	Page 23 of 40

Site sort category Drawn on institutions within the site that are not among the number of preselected financial institutions Clearinghouse Addressing the central processing unit All participants in the system Operatively interconnected to May be determined and monitored on a continuous basis in real time Physical transport Predetermining the occurrence of a final settlement by a clearinghouse participant Pre-determined time Until after a time that certain pre-determined local settlements in the		- 	7012 DI	·	_	T ==	. 555			./2 1/2			l messemble de la companione de la compa
Train Ferm Tawn on institutions within the site that are not mong the number of precelected financial astitutions The aringhouse The aringhouse The aringhouse and the central rocessing unit All participants in the system peratively and be determined and anonitored on a continuous basis in real me hysical transport redetermining the redetermined time currence of a final attlement by a learinghouse participant re-determined time Intil after a time that ertain pre-determined or the cal settlements in the		87.	86.	185.	84.	83.	82.	181.	80.	179.	[78.	77.	No.
Grouping by locations of the members. Financial instruments drawn on non-memb Institution for effecting the settlement of at Function of establishing communications b participants' modem (or the like). All the members of the clearinghouse assoc Able to interact functionally with No construction necessary. Air or ground transportation. A schedule of events determined before the Establishing that a clearinghouse participan recorded. Ontil after local settlements by the members	Until after a time that certain pre-determined local settlements in the	Pre-determined time	Determining the occurrence of a final settlement by a clearinghouse participant	Predetermined time cycle	Physical transport	May be determined and monitored on a continuous basis in real time	Operatively interconnected to	All participants in the system	Addressing the central processing unit	Clearinghouse	Drawn on institutions within the site that are not among the number of preselected financial institutions	Site sort category	Claim Term
	Until after local settlements by the members are completed.	A single time of day determined before those events occur.	Establishing that a clearinghouse participant has had its debits and credits calculated and recorded.	A schedule of events determined before the event occurs	Air or ground transportation.	No construction necessary.	Able to interact functionally with	All the members of the clearinghouse association.	Function of establishing communications between the central pr participants' modem (or the like).	Institution for effecting the settlement of accounts between member financial institutions.	Financial instruments drawn on non-memb	Grouping by locations of the members.	Plaintiff's Proposed Constructions
	4	4	4	4	4	4	4	4	4	4	w	2	Claims
													Where Appear
Claims Where Ferms Appear 2 In 007 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	AGREED	AGREED	AGREED	AGREED	AGREED	Defendants	AGREED	AGREED	AGREED	AGREED	AGREED	AGREED	Submitting Party

199	191.	190.		189.		Z ,
Means within each of the pre-selected institutions for sending and receiving the	Different financial institutions in the locality which are not participants in the clearinghouse	Participants in the localities		Pre-determined local settlements	localities, by the participants in the localities, are completed	Claim Ferm
Terms one or both parties contend should be construed as "mean Function; sending and receiving the instruments. Corresponding Structure: Air or ground transportation and a pre-se physical facility (i.e., bank, member bank, Participating Bank A/B,	Members of the local clearinghouse, which are not members of the national clearinghouse. Intrinsic evidence: '007 Patent, at 5:17-45; 6:29-33; 4:25-40	Members of the local clearinghouse, which can be but need not also be members of the national clearinghouse.	Extrinsic evidence: Webster's Encyclopedic Unabridged Dictionary of the English Language, Random House, Inc., p. 744 (1994) (defining "predetermine" as "to settle or decide in advance") (Exhibit F)	Local settlements that are determined beforehand. Intrinsic evidence: '007 Patent, at Col. 3:9-13; 4:52-54		Plaintiff's Proposed Constructions
nstrued as "means-plus-function" terms tation and a pre-selected institution's ipating Bank A/B, sending/receiving	Non-member banks of the clearing house in the locality.	be but need not also be members of the		Settlements at each specific region and among specific participants in each region. Col.4 l.15-40; col.5 l.25-35; col.6 l.40-50.		Defendants' Proposed Constructions
	3,6	4		4	л '007	Claims Where Terms Appear
AGREED	Defendants	AGREED		Defendants		Submitting Party

	193	
Means for physically accepting the instruments (transported from the other institutions)	Instruments Means for physically transporting the instruments (from an institution at one site to each other of the institutions at the other sites)	
Euncition: physically accepting the instruments. Corresponding Structure: A pre-selected institution's physical facility (i.e., bank, member bank, receiving bank Participating Bank B), and its relationship with air or ground transportation. [Fig. 1 (solid directional lines), 1.66-2:1, 4:15-22] Intrinsic evidence: 007 Patent, at Fig. 1 (solid directional lines); Col. 1:66-2:1, 4:15-20; 5:61-63 ("Physical transport of the checks may be by any means provided that scheduling requirements of the system are maintained.")	bank) Function: physically transporting the instruments Corresponding Structure: Air or ground transportation Intrinsic evidence: '007 Patent, at Col. I. '66-67, '4-15-20; 5:61-63 ("Physical transport of the checks may be by any means provided that scheduling requirements of the system are maintained.").	a minute of the poset Collect Reducing
This is means plus function element The function is physically accepting the instruments transported from the other institutions. There is no structure disclosed for this function. "Immediately upon physical receipt of the checks, the New York participant enters information about the receipt, of checks into the switch." (col.6 L25-27).	This is a means-plus-function element. The function is physically transporting the instruments from an institution at one site to each other of the institutions at the other sites. The specification does not disclose a corresponding structure. For example, the specification just states that: "Physical transport of the checks may be by any means provided that scheduling requirements of the system are maintained." (col.5 1.60-63).	Detendants Proposed Constructions
	1	Claims Where Terms Appear
Plamuff (Defendants)	Plaimuff (Defendants)	Submitting

<u></u>	2.00-cv-00072-D1 -CIVIC	Docu	ment JJJ	1 1160 02	121/2001	i aye 20	J UI 40
		6				19 5	20°
	receiving from the central processing unit a calculated value ((a) on a real time basis and (b) on a regular periodic settlement basis, information regarding the debits and credits owing to or payable by an institution with respect to each other of the institutions with regard to	Means within each of the pre-selected	with respect to their having been (i) sent and (ii) received)	occurrence of an event (a) the value of the instruments transported, and (b) the transport	central processing unit (connected to each institution information reporting in real time in correspondence with the	Means within each of the pre-selected institutions for sending to and receiving from a	Claim Term
	Corresponding Structure: accounting system [3:35-39]; related software [6:20-22]; electronic communications links [Fig. 1] Intrinsic evidence: '007 Parent, at Col 3:35-39; 5:25, 4:50, 6:20-22, Fig. 1	Function: receiving from the central processing unit a calculated value.		Intrinsic evidence: '007 Patent at Fig. 1. Col. 6:22-24	communications links [Fig. 1], which may include conventional telephone links by modern connections and the like [6:22-24]; and software [6:20]	Eunction: sending to and receiving from a central processing unit. Corresponding Structure: Placement	Plaintiff's Proposed Constructions
	processing unit a calculated value (a) on a real time basis and (b) on a regular periodic settlement basis, information regarding the debits and credits owing to or payable by an institution with respect to each other of the institutions with regard to instruments sent and received. The specification does not recite any structures within a member institution that receive information from the central CPU	This is a means-plus-function element	member institution to receive information from the central CPU.	been (1) sent and (11) received. The specification does not recite any structures that may be used within a	each institution information reporting in real time in correspondence with the occurrence of an event (a) the value of the instruments transported; and (b) the transport status of the instruments.	This is a means-plus-function element The function is sending to and receiving	Defendants' Proposed Constructions
						1	Claims Where Terms Appear
		Plaintiff (Defendants)				Plaintiff (Defendants)	Submitting Party

2.00-CV-000 <i>1</i>	-CIVIC DOC	ument 535	Filed 02/2	1/2007 P	age 27	or 40
198.					197.	
Means for calculating debits and credits(as monitored in on a real time basis from information reported by the institutions)	reported by each of the institutions, according to the reporting of an institution's sending and receiving of instruments)	institutions, and (b) the status in transit of the instruments with respect to their having been (i) sent and (ii) received, as	((a)(i) the sending and receipt status of the instruments and (ii) the value of the instruments sent and received, as	monitoring on a feal-time basis, as reported by each institution by the means for sending information within each institution	instruments sent and received) Means for continuous	The state of the s
Function: calculating debits and credits among the participating members. Corresponding Structure: Software [6:20-22] on a conventional programmable computer or central processing unit [1:62-65; Fig. 1 (CPU)]		and the like [6:22-24] and related software. Intrinsic evidence: '007 Patent, at Fig. 1; Col. 1:62-65: 6:22-24	Corresponding Structure: A conventional programmable computer or central processing unit [1:62-65; Fig. 1 (CPU)], electronic communications links [Fig. 1], which may include conventional	central processing unit (CPU) on a real time basis as to information sent by each institution connected to the central processing unit.	Function: continuous monitoring by the	Fainuir's Proposed Constructions
This is a means-plus-function element. The function is calculating debits and credits as monitored in on a real time basis from information reported by the institutions.	adapted for the system to perform the recited function and being processed by a "switch" or "appropriately programmed digital computer." Col. 6 1.9-23; Col. 7 1.14-20; Col. 1 1.62-66; col. 2 1.39-45	been (1) sent and (1) received, as reported by each of the institutions, according to the reporting of an institution's sending and receiving of instruments.	sending and receipt status of the instruments and (ii) the value of the instruments sent and received, as reported by each of the instructions, and (b) the status in transit of the instruments with respect to their having	The function is continuous monitoring on a real-time basis, as reported by each institution by the means for sending information within each institution faxth that	This is a means-plus-fline for a temper	Defendants' Proposed Constructions
						Claims Where Terms Appear
Plaintiff (Defendants)				(Defendants)	hit was	Submitting Party

Z

Claim Term	Plaintiff's Proposed Constructions	Defendants' Proposed Constructions	Claims Where Terms Appear	Submitting Party
	Intrinsic evidence: 007 Patent Fig. 1) Col. 1.62-65; 6:20:22	for calculating debits and credits being executed by a "central accounting means" such as a "conventional programmable computer or other central processing unit for the computation of the settlements among participant banks." Col.1 1.62-66; col.2 1.39-45.		
feans for sending to ach institution the ach institution the information monitored with respect to the astruments sent to an astrution and the value f such instruments)	Eunction: sending to each institution the information monitored. Corresponding Structure: Electronic communications links [Fig. 1], which may include conventional telephone links by modem connections and the like [6:22-24] Intrinsic evidence: '007 Patent, at Fig. 1; Col. 6:22-24	This is a means-plus-function element The function is, sending to each institution the information monitored with respect to the instruments sent to an institution and the value of such instruments The specification does not describe any structure sufficiently linked to the function.		Plaintiff (Defendants)
cycling means terrelated with the entral processing unit a) for controlling the hysical transport of the mancial instruments mong the institutions and (b) for controlling the reans for calculating)	Corresponding structure: Rules and parameters regarding time scheduling where such rules and schedules are interrelated with the central processing unit (CPU). he Intrinsic evidence: '007 Patent, at Col. 3:10-25, 6:60-64; 10:7-16; 2:55-66; 3:9-16; 3:39-42; 5:35-39; 6:9-23	This is a means-plus-function element. The functions are "controlling the physical transport of the financial instruments among the institutions" and "controlling the means for calculating such that a financial calculationdoes not occur until predetermined local settlements are completed." The specification does not recite any corresponding structures. In response to an Office Action, the Applicant stated that "clycling means is an appropriate term to		Plantiff. Defendants)

202. Means at each of	of each other of the pre- selected institutions and in which the instruments sorted by site are sent by site category to institutions at sites within the site sort categories)	201: Means at an institution by which instruments are sorted (by the site locality			
		1 by <u>Function</u> : sorting instruments Ility Corresponding Structure: Sorters 17:31 or			
The structure that performs the first function is a sorter. Col.3 1141-48. However, the specification does not disclose a structure linked to the second function. This is a means-plus-function element	(1) sorting instruments by site locality of each other of the pre-selected institutions and (2) sending the instruments sorted by site category to institutions at sites within the site sort categories.		schedule. When a time in the cycle arrives, the required act must be done. "Id at 13. However, the term "cycling means" is not described in the specification and no structure corresponding to the prosecution	92). (emphasis added). "[T]he 'cycling means' is necessary to operate the clearinghouse mechanism on a regular periodic basis on a strictly controlled schedule. A clearinghouse mechanism does not normality companies."	
22		8			Claims Where Terms Appear in '007'
		Plaintiff (Defendants)			Submitting Party

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obligations with respect to other institutions arising from the instruments that are reported to be sent and received)	processing unit by which a participant may determine in real time the information received by the processing unit (with respect to that participant's relative credit and debit	real time information real time information reporting the value and transit status of the financial instruments to be cleared, to a programmed central processing unit and (3) for addressing the central	participants for (1) sending and receiving financial instruments to be cleared and (2) for
(3) Function: addressing the central processing unit by which a participant may determine it real time the information received by the processing unit Corresponding Structure: Electronic communications links [Fig. 1], which may include conventional telephone links by modern connections and the like [6:22-24]	to be cleared to a programmed central processing unit Corresponding Structure: Electronic communications links [Fig. 1], which may include conventional telephone links by modern connections and the like [6:22-24]	transportation and a pre-selected institution's physical facility (i.e., bank, member bank, Participating Bank A/B; sending/receiving bank) (2) Function sending and receiving in real time information reporting the value and transit status of the financial instruments	Function: sending and receiving financial instruments to be cleared Corresponding Structure: Air or ground
	participant's relative oredit and debit obligations with respect to other institutions arising from the institutions that are reported to be sent and received It is unclear from the claim language if the structure corresponding to these functions is one structure or a combination of structures.	2) sending and receiving in real time information reporting the value and transit status of the financial instruments to be cleared, to a programmed central processing unit; and 3) addressing the central processing unit by which a participant may determine in real time the information received by the processing unit with respect to that	Detendants: Proposed Constructions The functions are: 1) sending and receiving financial instruments to be cleared; and
			Claims Where Terms Appear In '007
			Submitting Party (Defendants)

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ě.			2074					203	Ž
Means for monitoring on a real time as reported basis	system)	instruments to be cleared as having been sent and received with respect to all participants in the	Means for receiving and recording a participant's reports of the value and transit status (of the				debits and oredits	Means for calculating	Claim Perm
Function: monitoring on a real time as reported basis. Corresponding Structure: Software [6:20-	Intrinsic evidence: '007 Patent, at Col. 6:20-22	Corresponding Structure: Software [6:20-22] associated with an accounting system running on the central processing unit (CPU).	Function: receiving and recording a participant's report of the value and transit status		Intrinsic evidence: '007 Patent, at Fig. 1; Col. 6:20-22; 1:62-65	22] on a conventional programmable computer or central processing unit [1:62-65; Fig. 1 (CPU)]	among the participating members Corresponding Structure: Software [6:20]	Intrinsic evidence: '007 Patent, at Col. 6:22-24 Function calculating January 2011	Plaintiff's Proposed Constructions
This is a means plus function element. The function is "monitoring on a real time as reported basis."	The specification does not sufficiently describe the structure linked to the function.	status of the instruments to be cleared as having been sent and received with respect to all participants in the system."	This is a means-plus-function element. The function is "receiving and recording a	for the computation of the settlements among participant banks." Col.I 1.62-66 col.2 139-45.	executed by a "central accounting means" such as a "conventional programmable computer or other central processing unit	The structure may be undisclosed software for calculating debits and credits being	The function is "calculating debits and credits."	disclose any structure sufficiently linked to either functions (2) or (3).	Defendants' Proposed Constructions
			4						Claims Where Terms Appear in '007'
Panties			Plaintiff (Defendants)				Parties		Submitting Party

Submitting

Defendants

EXHIBIT 6

THE OXFORD ENGLISH DICTIONARY

SECOND EDITION

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Prepared by
J. A. SIMPSON and E. S. C. WEINER

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Quemadero-Roaver

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REAGGRAVATE

Case 2:00-cv-00072-DF-CMC
of. [the patients] received reagent grade zinc sulfate 90 mg
daily, and three received reagent grade zinc sulfate 1 gm
orally daily. 1973 Jrnl. Amer. Chem. Soc. XCV. 1913/1 All
reagents and solvents used were reagent grade and, unless
noted otherwise, were used without further purification.
1908 Practitioner Mar. 410 A pea-sized piece being rubbed
up with 2 c.c. of water, and the reagent-paper dipped into

†re'aggravate, v. Obs. rare. [RE- 5a, after tre aggravate, v. Obs. rare. [RE-52, after med.L. reaggravare (1501 in Du C.), It. raggravare (Florio), F. reaggraver (15th c.): cf. next.] trans. To make still heavier. 1611 Cores. Rengraver, to reaggrauste; reinforce, renew. 1626 C. POTTER tr. Sarp's Hist. Quarrets 72 Reserving to Himselfe and his successors power to aggravate and reaggrauate the censures and penalties against them.

Eccl. [ad. reaggra'vation. reaggravatio; cf. obs. F. réaggravation (15th c. the usual word is réaggrave). See prec. and AGGRAVATION 3.] The second warning given to a person before final excommunication.

a person office that excommunication; and (particularly) the last, and most direfull excommunication of offendors. 1727-91 CHAMBERS Cycl. 5.v., Before they proceed to fulminate the last excommunication, they publish an aggravation, and a re-aggravation. 1864 [see AGGRAVATION 3].

re'aggregate, v. [RE-5a.] a. trans. To collect or bring together again. b. intr. To come together again. Hence re'aggregated ppl. a.; reaggre'gation.

reaggre'gation.

1849 Murchison Siluria xiv. 347 Simply a re-aggregated granite. 1862 G. P. Scrope Volcanos 45 A proportionate diminution of temperature... reaggregates them in a solid mass. 1882 Spencer Princ. Sociol., Pol. Instit. 243 The minglings of peoples and institutions, the breakings up and re-aggregations... destroy the continuity of normal processes. 1962 H. Bloemendal. et al. in A. Piric Lem Metabolism Rel. Cataract 300 The subunits.. reaggregate after removal of urea.

reagin (ric'eidzin). Immunol. [a. G. reagin, f. reag-ieren to react + -in -INE5.]

a. The complement-fixing substance in the blood of persons with syphilis which is responsible for the positive response to the

blood of persons with syphilis which is responsible for the positive response to the Wassermann reaction.

1911 R. W. Marson tr. A. Wolff-Eisner's Clin. Immunity Sero-Diagnosis iii. 33 To avoid errors, it is.. best to use the term 'reactive substances' (reagins) rather than 'antibodies', since the latter implies a neutralization in the sense of an antitoxin. 1915 J. E. R. McDonagh Biol. & Treatm. Venereal Dis. x. 71 Owing. to the fact that a positive Wassermann reaction may be obtained in conditions other than syphilitic ones, the reaction ceases to be a specific reaction. Therefore the third factor ought not to be called an antibody, since it is in no wise specific, hence it is best called reacting substance, or Reagin. 1937 H. Eagle Lab. Bignossi Syphilis i. 24 There is reason to believe that Wasserman's first theory was correct, and that the active component of syphilitic serum, so-called reagin, may well be an antibody to Spirochaeta pallida despite its reactivity with normal tissue lipoids. 1942 Jrnl. Lab. & Clin. Med. XXVIII. 720 I seems controversial as to whether reagin is an antibody to lipid haptens of the host. or an antibody to the spirochete. 2976 A. E. WILKINSON in Catterall & Nicol Sexually Transmitted Dis. 215 Although the function of reagin is still uncertain, its level seems to be roughly related to the amount of tissue reaction by the host, rising rapidly with increasing numbers of treponemes in early syphilis and later falling as the number of organisms declines with developing immunity.

b. The artibody which is involved in allergic reactions, causing the release of histamine and similar agents when it complemes with antigen in

reactions, causing the release of histamine and similar agents when it combines with antigen in tissue and capable of producing sensitivity to the antigen when introduced into the skin of a normal individual.

normal individual.

1925 [see ATOPY]. 1963 Advances in Immunol. III. 181 Reagin still represents a nebulous concept to many immunologists, some doubting the legitimacy of its classification as an antibody. 1969 R. S. Weiser et al. Fund. Immunol. xv. 163 The antibodies responsible for P-K type sensitivities, the so-called 'reagins' or P-K antibodies, have long been a mystery. 1977 Nature 16 June 618/1 Allergic diseases such as hay fever, extrinsic asthma, drug hypersensitivities and some forms of urticaria are mediated by allergen-specific antibodies of the 1gE class, known also as reagins.

Hence rea'ginic a., of, pertaining to, or being (a) reagin.

(a) reagin.

1931 A. F. Coca Asthma & Hay Fever in Theory & Pract.

1. xvii. 332 Bona fide reaginic reactions are indicative of past, present or potential sensitivities in the atopic individual. x945 Vet. Rec. LVII. 39/2 (heading) Reaginic allergy in cattle. 1975 Nature 6 Feb. 475/1 In the rat, reaginic antibodies were reported and their possible significance in S(chistosma) manson infection considered. 1977 A. M. DENMAN in Holotrow & Reeves Immunol. in Med. x. 295 IgE constitutes the major class of reaginic antibody but it seems likely that some IgG ... antibodies also contribute.

re'agitate, v. [RE-5a.] To agitate again.
1833 T. Busay Lucretius II. IV. Comm. p. xxxiv, Certain minute moveable bones.. provided to re-agitate the air.

†reagnize, v. Obs.-1 [RE- 5a.] trans. To

recognize.

1682 H. More Annot. Glanvill': Lux Orient 30 They will
remember their former Paradisiacal state upon its
recovery, and reagnize their ancient home.

reaisun, obs. f. REASON.

reak, (?) var. of RAKE sb.3 and v.1

reak(e, obs. ff. REEK sb. and v.

reake, obs. f. reck v.; (?) obs. var. of reach v.

reaklesse, obs. var. of RECKLESS.

reakn-, obs. Sc. f. RECKON v.

†reaks, sb. pl. Obs. Also 6-7 reakes, 7 reeks, reax: and sing. 9 Sc. reik. [Of obscure origin: cf. FREAK. The precise relationship to REX is not clear; the evidence is not decisive for the view that rex is the original form.] Pranks, wanton or riotous tricks or practices. Chiefly in phr. to

riotous tricks or practices. Chiefly in phr. to keep or play reaks (very common in 17th c.).

1875 Gascoigne Flowers, Lookes of Louer forsaken Wks.
15 Such reakes the rage of loue in thee had wrought. 1886
D. Rowland Lazarillo II. (1672) Ui, The owner of the House, where these Reaks were Played. 1896 NASHE Saffron Walden 93 The olde reakes hee kept with the wenches in Queenes Colledge Lane. 1633 Herwood Eng. Trav. II. Wks. 1874 IV. 25 They may be rather called Reakes then Reuells. 1692 R. L'ESTRANGE Fables (1694) 475 Throwing books at one another's heads and playing such Reaks as if Hell were broke loose. 1818 Scott Rob Roy xvi, Mony a daft reik he has played.

Comb. 1632 Cottora, Ribleur, a disorderlie roauer, ... outragious reakes-player.

real ('ri:əl, 're:əl), sb.¹ Also 7 reall. [Sp. real, sb. use of real adj., royal:—L. rēgāl-em: see REAL a.¹, and RIAL sb.]

1. A small silver coin and money of account 1. A small silver coin and money or account formerly in use in Spain and Spanish-speaking countries. a. The old Spanish real de plata (largely circulated in the United States up to c1850, and in Mexico until 1807) = an eighth of a dollar (6td c 1900). b. The former Spanish monetary unit, real (de) vellon (not current as a

monetary unit, real (de) vellon (not current as a coin) = a quarter of a peseta..

The real of plate was formerly known in the northern U.S. by the name of Mexican or Spanish shilling, in the south by that of Levy 50. See also Bit 50. Spanish sixpence. 1613 Punchas Pilgrimage vIII. x. (1614) 795 Euery Indian payeth tribute to the King [of Spani] tweller Reals of Plate. 1662.] DAVIES IT. Olearius Voy. Ambass. 97 The Muscovites.. carry them [Rixdollers] to the Mint, as they do also Spanish Reals. 1760 Ann. Reg. 89 All they owed to the crown. which does not amount to less than sixty millions of reals. 1798 MALTHUS Popul. (1878) 359 The highest price is 48 reals vellon. 1850 B. TAYLOR Eldorado II. xiii. 84 The money. was paid to me in quarter-dollars, reals, and medios, which it took me more than an hour to count. 12 real of eight = piece of eight (EIGHT 2 d). Obs.

1612 Shelton Quix. I. i. ii. 14 It being all one to me to be paid my Money in 8 single Reals, or to be paid the same in one Real of eight. 1628 Diensy Voy. Medit. 38, 4 Fench vessels, whereof one. had still a hundred thousand reals of eight abord her. 1818 Jas. MILL Brit. India I. I. ii. 31 The prize money, which was estimated at 100,000l. and 240,000 reals of eight.

† real, a. (and sb. 2) Obs. Also 4-5 reale, 4, 6-7 reall; pl. 5 Sc. reaws. [a. OF real (12th c.) = Prov. real, reial, Sp., Pg. real, It. reale:—L. regal-em REGAL. As a variant of RIAL and ROYAL, the form chiefly occurs in MSS. written about

A. adj. Royal, regal, kingly.

3. Guy Warw. (A.) 1879 A real paulioun he per seye.

13.5 Will. Palerne 1597 Al pat real gray reken schold men neuer. 1397 Rolls of Parlt. III. 379/1, I amonges other restreyned my Lord of his fredom, and toke upon me.. Power Reall. 2428 WYNTOON Cron. III. iii. 506 Brute.. byggyd in his land a towne, Yhit realle land] off gret renowne. 1460 CAPGRAVE Chron. (Rolls) 197 The qween held a real Cristmasse aftir at Wallingford. 1577 HELLOWES Guetara's Chron. 109 He edified the reall palace named Reptunus. 1602 MARSTON Ant. E Mel. II. Whs. 1856 I. 23 Then whome I knowe not a more pretious, reall, magnanimous, bountious.

B. sb.² A royal person. rare.
1399 LANGL. Rich. Redelet 1. 91 Reffusynge the reule of realles kynde. Ibid. 111. 301 Whanne realles remeveth, ... And carieth ouere contre the recommend welleth. c1425 WYNTOUN Cron. VIII. 1. 105 Gyve any male Of Reaws might fundyn be Worth to have that realte.

real ('ri:al), a.2, adv., and sb.3 Also 5-7 reall. [a. OF. real, reel (13th c. in Godef.), or ad. late L. reālis, f. res thing, etc. + -AL1.]

The precise sense is uncertain in the following early instances of the word: -1140 Promp. Parv. 424/2 Real, realis. 1590 LEVINS Manip. 13/31 Reall, realis. 1598 MARSTON Sco. Villanie To iudic. Perusers 169 Some of his new-minted Epithets (as Real], Intrinsecate, Delphicke).

A. adj. I. 1. a. Having an objective existence;

actually existing as a thing.

1601 Shaks. All's Well v. iii. 307 Is there no exorcist Beguiles the truer Office of mine eyes? Is't reall that I see' 1651 Hospes Leviath. III. xxxiv. 210 That some such apparitions were not Imaginary, but Reall. 1667 MILTON

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**Treagree, v. Obs.-1*

| F. RE- 5a + AGREE v. 4. |
| trans. To reconcile, make up again.
| 1609 DANIEL Civ. Wars vii. cxiv. Fain to see that glorious holiday Of union which this discord re-agreed.

b. In Philosophy applied to whatever is regarded as having an existence in fact and not merely in appearance, thought, or language, or as having an absolute and necessary, in contrast

as having an absolute and necessary, in contrast to a merely contingent, existence.

1701 Nonns Ideal World 1. iii. 150 An Hircocervus or any other Fictitious Being is true and real with respect to the Simple Essences or Natures. 1712 SHAFTESS. Charac. (1737)
11. iii. i. 369 Thought we own pre-emiment, and confess the reallest of Beings. 2797 Encycl. Brit. (ed. 3) XVIII. 79/1 Numberless absurdities, such as, that. forms or sensible qualities are real things independent of their subject and the sentient beings who perceive them. 1843 Min. Logict. v. § 3 He [Locke] admitted real essences, or essences of individual objects, which he supposed to be the causes of the sensible properties of those objects. 1857 Whewell Hist. Induct. Sc. (ed. 3) I. 343 The perfections are unquestionably real existences. 1893 Bradley Appearance & Reality xxvii. (1897) 523 The more that anything is spiritual, so much the more is it veritably real.

2. real money: (a) current coin or cash (esp. as opposed to imaginary money or money of

opposed to imaginary money or money of

account).

1685 PETTY Will p. v, An estate of about 1300l. in ready and real money. 1849 FREESE Comm. Class-bk. 71 Real monies are coins of any kind of metal, made current by the authority of the state.

authority of the state.

(b) collog. A large sum of money.

1918 R. W. LARDNER Treat 'em Rough 120, I could go out and pitch baseball and make real money. 1939 A. HUKLEY After Many Summer. 1: v. 46, I did some business this morning... Might make a lot of money. Real money. 1964

L. DEIGHTON Funeral in Berlin iii. 2: Whom do you feel like? I liked that 'whom'—you've got to pay real money these days to get a secretary that could say that.

(c) collog. The coinage or currency in which we have the state of ferries.

one habitually reckons, freq. as opp. to foreign

currency.

CUITERCY.

1973 L. MEYNELL Thirteen Trumpeters iv. 50 S0 I'm
paying one thousand seven hundred and ten lire for my
Pimma?... What's it mean in real money? 1977 Vole No. 2.
17/2 Just before the demise of real money and the
introduction of decimal coinage, the officials of Gloucester
Shoveha'penny Lesgue invested £to in old-style
halfpennies. 1977 Zigzag Mar. 7/1 They charged me three
hundred francs. Well, that's. quite a lot in real money.

d. Math. Of quantities. (Opposed to
IMAGINARY 1C, Or IMPOSSIBLE 2.)
1727-42 CHAMBERS CVI S.V. ROR. If the value of v. be.

d. Math. Of quantities. (Opposed to IMAGINARY 1.c, or IMPOSSIBLE 2.)

1727-41 CHAMBERS Cycl. s.v. Root, If the value of x be positive, i.e. if x be a positive quantity, ... the root [of an equation] is called a real or true root. 1841 Penny Cycl. XX. 150/2 Here a and b are meant to be real algebraical quantities, that is, reducible to positive or negative whole numbers or fractions. 1875 Encycl. Brit. I. 544/2 Every quadratic equation has always two roots, real or imaginary. 1930 Ibid. 1. 613/1 The development of the theory of equations leads to the amplification of real numbers, rational and irrational, positive and negative, by imaginary and complex numbers. 1952 S. C. KLEENE Introd. Metamath. i. 6 That there are infinite sets considered in mathematics which cannot be enumerated was shown by Cantor's famous diagonal method. The set of the real numbers is non-enumerable. 1965 PATTERSON & RUTHERFORD Elem. Abstract Algebra iii. 85 The real number a is called the real part of the complex number (a, b) and the real number b is called the imaginary part. 1972 S. W. P. STEEN Math. Logic iii. 178 Having defined the integers we can then define rational numbers as triplets of integers, then real numbers as Dedekind Sections of rational numbers and lastly complex numbers as ordered pairs of real numbers.

e. Optics. (See quot.)

1859 PARKINSON Optics (1866) 130 If an image consist of points through which the light actually passes it is called real,—in other cases virtual. Hence a screen placed in the position of an image will receive illumination only when the image is real.

f. real time, the actual time during which a

f. real time, the actual time during which a process or event occurs, esp. one analysed by a computer, in contrast to time subsequent to it

process or event occurs, esp. one analysed by a computer, in contrast to time subsequent to it when computer processing may be done, a recording replayed, or the like.

1953 Math. Tables & Other Aids to Computation VII. 73 With the advent of large-scale high-speed digital computers, there arises the question of their possible use in the solution of problems in 'real time', i.e., in conjunction with instruments receiving and responding to stimuli from the external environment. The criteria for satisfactory operation in such real-time service are different from those generally encountered. 1964 Litener 19 Nov. 7841 A higher speed in computers means that their complexity can increase very rapidly, too, and that they can more easily engage in activities in what we call 'real time'. That is to say, they can calculate at the actual speed of the events taking place. 1968 Times 10 Dec. 6/8 The data gathered by the elescopes are stored on board the satellite by magnetic tapes and discs... The Smithsonian experiment can also be used in real time, transmitting information as it gathers it. 1970 Nature 20 June 1110/2 The data are telemetered to ground-based stations which record the information on magnetic tape and provide a digital print-out in real time. 1973 Sci. Amer. May 115/2 It is wrong to detail a suspense plot, even though we all recall from real time how Apollo 13 limped back safely. 1973 Nature 12 Oct. 294/1 As we are working in scientific 'real time', we have to ask at what stage the work-effect xi. 83 The Real Time was three hundred milliseconds, but it was shot in slow motion.

Effect xi. 83 The Real 1 time was three nundred milliseculus but it was shot in slow motion.

attrib. 1953 [see above]. 1960 N. Y. Times 17 July 13/4 As an experiment, Air Force and Weather Bureau meteorologists attempted to use the pictures to make 'real time' forecasts of the weather—forecasts fresh enough to be

quality of things; having a foundation in fact; actually occurring or happening. Phr. real life,

Document 535

REAL

MACDONALD Ann. Q. Neighb. iv. (1878) 52 It was evidently real and not affected doubt.

b. Natural, as opposed to artificial or depicted. 718 POPE Arachne 158 A real bull seems in the piece to roar, And real billows breaking on the shore. x827 STEURAT Planter's G. Pref. (1828) 2 In removing Wood, for the purpose of creating Real Landscape, plants of a large size are research; the product of the purpose of the

purpose of creating Real Landscape, plants of a large size are necessarily employed.

c. Mus. (See quots.)

1859 Ouseley Counterp. xiv. 83 Counterpoint in more than four real parts, i.e. 'parts which proceed together, and yet have each a different melody'. Ibid. xix. 160 A fugue with a subject, the answer to which gives every interval by exact and simple transposition, is called a real fugue. 1859 PROUT Harmony v. 5130 IF. the quality of the intervals is exactly the same in the imitations as in the pattern, the sequence will be real, i.e. exact... A real sequence is much rarer than a tonal one.

4. a. That is actually present or involved, as opposed to apparent, ostensible, etc.; spec. in Econ., reckoned by purchasing power rather

opposed to apparent, ostensible, etc.; spec. in Econ., reckoned by purchasing power rather than monetary or nominal value.

1716 Pore Let. to Lady M. W. Montagu 18 Aug., Whatever I write will be the real thought of that hour. 1771 Junius Lett. lix. 307, I doubt not they delivered their real sentiments. 17715 Johnson Journey to Western Islands 368 Lealey. related so punctiliously, that a hundred hen eggs, new laid, were sold in the Islands for a peny... Posterity has since grown wiser: and having learned, that nominal and real value may differ, they now tell no such stories. 1776 ADAM SMITH Wealth of Nations I. 1. v. 39 Labour, like commodities, may be said to have a real and a nominal price. Its real price may be said to consist in the quantity of the necessaries and conveniences of life which are given for it, its nominal price, in the quantity of money. 1802-12 BENTHAM Ration, Judic. Evid. (1827) IV. 644 note, There lurks the real reason at the bottom of the ostensible one. 1856 TYNDAL Glac. IV. iv. 279 With regard to the real explanation of these effects, it may be shown [etc.]. 1870 LOWELL Study Wind. 499 An imperturbable perception of the real relations of things. 1882 R. BITHELL Counting-House Dict. 208 The nominal value of a coin is that value which is assigned to it by law, and often differs very materially from its real or metallic value. 1885 J. L. JONNEST Marx's Wage-Labour & Capital to The real wage expresses the price of labour irelation to the price of other commodities... Real wages may remain the same, or they may even rise, and yet the relative wages may none the less have fallen. 1924 Sci. Sci. Abstracts 23 The close similarity of the general price level. substantiates its use as a measure of 'real income'. 1926 K. A. H. EGENTON Dict. Econ. Terms (ed. 2) 13 Real wages at such times change at a very different rate, and sometimes in the opposite direction, from nominal or money wages, being based on the purchases a wage at any given time will make. 1964 GOULD & KOLB Dict. Soc. Sci. 45411 I a ser

b. The actual (thing or person); that properly bears the name.

at 31 Donne Poems (1650) 9 The Kings reall, or his stamped face. 1666 F. Brooke tr. Le Blanc's Trav. 10 One of them to his thinking favoured very much his companion, and as he was about to follow them, his reall companion called him to come back. 1704 [see HORIZON 3]. 1774 GOLDSM. Nai. Hist. (1776) IV. 244 The bag.. may rather be considered as a supplemental womb. In the real womb, the tittle animal is partly brought to perfection. 1813 Sporting Mag. XLI. 175 She went the real pace, having passed this extent of country in forty-five minutes. 1849 MACAULAY Ess., Clive. It was absurd to regard him as the real master of Hindostan. 1856 Ruskin Q. of Air § 5 From the real sun, rising and setting:—from the real atmosphere [etc.].

c. the real thing: (a) The thing itself, as contrasted with imitations or counterfeits; hence slang, the 'genuine article'.

1818 Lady Morgan Autobiog. (1850) 15 He is the real thing, and no mistake. 1858 HAMTHORNE Fr. & II. Notebis. II. 37 Represented with the vividness of the real thing. 1846 Punch 20 June 27212 You, who will not subscribe to the real thing; come, pull out your purse to the name: .. although you know that you ask for the 'Ragged Schools'... beg subscriptions for the 'Youths of Limited Circumstances. 1884 Air Amateur Dec. 231 Those persons who indulge in ... having... Japanese rooms in their houses, but have only a tudicrous imitation, will be interested in seeing here the real thing. 1902 T. W. H. Crosland Outlook Odes 31 My tobacco merchant, who sells me two ounces of the real thing revery week. 1939 War Illustr. 2 Dec. 265 The 'stand-by amoment in the urgency of the 'real thing'. 1897 Time 22 Aug. 40/2 But the copied Coke may not work. India's soft-drink fanciers have learned to distinguish between ersatz Coke, which is peddled everywhere on the Indian market, and the Real Thing.

(b) spec. True love as distinct from infatuation, flirtation, etc.

(b) spec. True love as distinct from infatuation, flirtation, etc. 1857 C. M. Yonge Dynevor Terrace I. xi. 173, I could not part with you where we were not sure the 'real thing' was felt for you. 1906 J. Galsworthy Man of Property 11. iii. 302. This was none of those affairs of a season that distract men and women about town... This was the real thing! 3250 Wodenouse Domsel in Distress v. 6: It had come at last. The Real Thing. George had never been in love before. Not really in love. 1931 J. CANNAN High Table x. 152 He was afraid that she would think he was just flirting—that it wasn't the Real Thing. 1941 M. MCCARTHY in Partian Rev. VIII. 327 All that conjugal tenderness had been a brightly packaged substitute for the Real Thing. 1955 E. Wauch Officers & Gentlemen II. ii. 189, I thought of you at the last. Ever since we met I've known I had found the real

thing. 1960 Woman's Own 19 Mar. 17/2 Once these phases are over, you should be ready for the Real Thing. the man who will be exactly right for you. 1973 G. Scott Water Horse (1974) xvi. 109 A girl.. whom she knew to be looking for the Real Thing in Spain.
d. the real McCoy: see McCoy.
e. real tensits = TENNIS sb. 1. Also attrib.

e. real termis = TENNIS sb. 1. Also attrib.

The usage distinguishes the original game from the modified form which became the more popular after 1874; see LAWN-TENNIS and TENNIS sb. 2. Derivation from REAL a.' is a folk etymology.

1880 [see jeu de paume s.v., IEU d]. 1902 [see royal termis s.v. ROYAL a. 15 a], 1954 A. S. C. Ross in Neuphilol. Mitteilungen LV. 22 The games of real tennis and piquet. are still perhaps marks of the upper class. 1966 Oxford Mag. Michaelmas, No. 8, p. 149 A splendid exhibition of real tennis was given at the Merton Street court on Sunday, 1972 Daily Tel. (Colour Suppl.) 14 Jan. 25/4 There are 17 Real Tennis courts in use in the country. 1975 Country Life Jo Jan. 25/81 Today tennis means to most people lawn tennis, while its... ancestor... has survived under the title 'real tennis'... Only one public school boasts a real tennis court... Canford in Dorset.

1. real ale, a name sometimes applied to draught beer that has been brewed and stored in

draught beer that has been brewed and stored in the traditional way, and which has undergone secondary fermentation of the yeast in the container from which it is dispensed; also called 'cask-conditioned' beer; real coffee, coffee made directly from ground coffee beans, as opposed to

cask-conditioned occupied beans, as opposed to directly from ground coffee beans, as opposed to instant' coffee.

1964 L. Deighton Funeral in Berlin iv. 28: Could you find us a little cup of real coffee? 1972 What's Brewing Oct., Mr A.— B.— .. is ripping out the keg taps and replacing them with real ale from wooden barrels. 1972 C. Hutt Death of Eng. Pub i. 25 The beer-drinker who feels strongly about the declining quality of his pint has two organisations he can turn to.— the long-established Society for the Preservation of Beers from the Wood, and the more recently formed, more militant CAMRA (Campaign for Real Ale). 1974 N. Freeling Dressing of Diamond 20: Where's the patrol. Gilbert? 'Be back any minute. 'Then you might make us some real coffee.' 1974 Good Beer Guide (CAMRA) 2 The real ale we are talking about has to stand up to three tests; in the way it is brewed, the way it is stored and the way it is served. 1976 Evening Standard 20 Dec., The most oppular of about a dozen real ales brought in from distant parts to a growing number of pubs in the capital. 1986 Times 23 Sept. 8/3 In the 1970s. the 'real ale' fashion took hold.

5. † a. Sincere, straightforward, honest. Obs. (freq. in 17th c.).

23 Sept. 8/3 in the 15/05. the real are rashion took bold.

5. †a. Sincere, straightforward, honest. Obs.

(freq. in 17th c.).

1897 BACON Ess., Ceremonies & Respects (Arb.) 24 He that is only reall had need have exceeding great parts of vertue.

1808 R. Johnson's Kingd. & Commus. 51 The Dutch hath an honest and reall manner of dealing. 1647 CLARENDON Hist.

Reb. 1. §35 If his intentions were real. 1686 tr. Chardin's Trav. Perisi 173 Supposing he should be real and sincere.

1700 MBS. CENTLIVER Gamester 1. i, If I could believe thee real, my joys would be compleat.

†b. True or loyal to another. Obs.

1642 EARL OF CLARICABDE in Carte Ormonde (1735) III.

79 To have a person soe full of worth and bonour to be firme and reall to me. 1690 Secr. Hist. Chas. II & Jas. II. 91

Which, had England been real to the confederate, might have been easily wrested again out of his hand.

C. Free from nonsense, affectation, or pretence; 'genuine'. Also loosely, aware of, or in touch with, real life.

1847 Tennyson Princ. Concl. 18 They hated banter.

preterice; genuine. Also loosely, aware of, or in touch with, real life.

1847 Tennyson Princ. Concl. 18 They hated banter, wish d for something real. 1852 Hawthonne Ho. Sev. Gables is, Phoebe's presence made a home about her... She was reall 1850 Miss. Whittney Odd or Even? xxxvi, She had been so near real people who meant every bit of their lives. 1964 Noble Savage Fall 12 He [sc. Seymour Krim] alludes to something called 'direct writing', and he finds that criticism gets in the way of his 'truer, realer, imaginative bounce' 1964 Sunday Express: I Mar. 22/5 Most [actors]. are so inaincere... Albie. is an exception... He's a real person. 1966 New Statesman 17 June 873/2 This was a realler America than I had known in the past, hitching on this or that bandwagon or presidential campaign. 1967 P. WELLES Babyhip (1969) xxviii. 179 Sometimes I wish I were back in Paris. The people seemed realer. 1969 Newsweek 9 June 98 Why suffer all the bad hotels and rotten food and accountants and taxes if you waste the opportunity on stage to be real? 2973 Scottman 7 Aug. 815, I notice. the editor-designate of the much discussed 'Scottish International' review telling us that Glasgow is a 'realler' city than Edinburgh. 1976 New Yorker 1 Mar. 35/1 'Ellen. Be real for once. I said we'd get together.' 'In your letter you said we'd have dinner.' 1897 Time 25 July 45/2 Billy is very sweet and very gentle and very real.

11. 6. Law. (Opposed to PERSONAL.)

a. Of actions, causes, etc.: Relating to things,

a. Of actions, causes, etc.: Relating to things,

a. Of actions, causes, etc.: Relating to things, or spec. to real property (see c.). In early use freq, placed after the ab., and with pl. in -s. 1485 Shillingford's Lett. (Camden) App. 139 Any action real personal and myxte apon any person or persons. 1535 Act 27 Hen. VIII, c. 26 §4 All actions realles, hereafter shalbe conucied, perpetrated, or sued for any landes. 1574 Int. Littleton's Tenures 41 If the villaine be demaundant in an action reall, or plaintife in an action personal. 1603 Owen Pembrokeh. (1892) 155 Pleas reall and mixt for landes are and must be sued at home. 1652 GAULE Magastrom. 342 All matters or causes, criminall or reall. 1768 Blackstone Comm. III. 117 Real actions. . which concern real property only. 1818 CRUISE Digest (ed. 2) 111. 491 After a real action was barred by length of time. 1863 H. Cox Instit. II. ix. 512 Real actions, brought for the specific recovery of freeholds. b. Connected in some way with things or real

b. Connected in some way with things or real property: (see quots. and Wharton's Law

Lexicon).

1467-8 Rolls of Parlt. V. 578/2 Lands, Tenementez and other Possessions. in demeane and reall possession. 1625 Burges Pers. Tithes 48 How much should bee due, where no Custome, Composition real, or other sufficient Priuiledges

actually occurring or happening. Phr. real life, real world (passing into senses 3 and 4). Also attrib.

1597 Shaks. Lover's Compl. 114 His real habitude gave life and grace To appertainings and to ornament. Accomplished in himself, not in his sease. 1662 STILLINGT. Orig. Sacr. 111. ii. 57 Time.. denotes nothing real in its self existing.. and so can argue nothing as to the real existence of things from all eternity. c1680 Prior To Chas. Montague 4 He can imagin' d pleasures find. To combat against real cares. 1729 BUTLER Serm. Hum. Nat. ii. Wks. 1874 II. 18 Our inward feelings, and the perceptions we receive from our external senses, are causily real. 1771 T. JEFFERSON Let. 3 Aug. in Koch & Peden Life & Selected Writings (1944) viii. 358 Considering listory as a moral exercise, her lessons would be too infrequent if confined to real life. 1794 Palex Foid. III. ii. (1817) 288 The malady was real, the cure was real, whether the popular explication of the cause was well founded or not. 1801 M. English and sounds from the disastrous sky Than all the real terrors of the Plague. 1836 DICKENS Pickw. (1837). 44 Acturious manuscript. curious as a leaf from the romance of real life. 1838 J. S. MILL ii Westm. Rev. XXXI. 28 The writers and readers. in France have.. a thirst for something which shall address itself to their real-life feelings. 1852 Mhs. Jameson Leg. Madonna Introd. 36 The Caracci school..combined..the study of the antique with the observation of real life. 1876 C. M. YONGE Womankind v. 34 Insolence to a governess is an old stock complaint. In real life, I never heard of it from anyone by birth and breeding a lady. 1879 M. Arnold Irish Cathol. Ess. 115 From Christianity's being a real source of cure, for a real bondage and misery. 1884 tr. Lotze's Logic III. iii. (1888) II. 208 We call.. an event Real which occurs or has occurred, in contradistinction to that which does not occur. 1909 Daily Chron. 16 Apr. 3/5 Jocelyn Johnstone..showed. humour in her sketches of. 'real life senses. 1932 C. D. Brodo Sci. Tho real world (passing into senses 3 and 4). Also

Christ's Dody and Diood in the sacrament of the Eucharist.

The precise sense attached to real depends on the belief held as to the nature or mode of the presence. In the Roman Catholic and Lutheran churches it implies the presence (by transubstantiation or consubstantiation) of the actual body and blood of Christ; by the Church of England it is held that the body and blood are present 'only after an heavenly and spiritual manner'.

1559 FECKNAM in Strype Ann. Ref. 1. App. ix. (1700) 25 Doctor Cranmer .. did most constantly affirme and defend the real Presence of Chryst's Bodye in the Holie Euchariste. 1553 [Latimer in] Foxe A. & M. 979/1 This same presence may be called most fifty, a reall presence. In this is a presence may be called most fifty, a reall presence. In this is a presence on fained, but a true and faythfull presence. 1555 FULLER MADER OF THE ADDRESS HIM & P. 11. 32 And to explain what your forefathers meant By real presence in the Sacrament, After long fencing. Your salvo comes, that he's not there at all. 1797 Encycl. Brit. (ed. 3) XVIII. 78/1 This account of the Romish doctrine concerning the real presence. 1839 KEICHTLEY Hist. Eng. 1. 322 Wickliffe..seems to have agreed with the present Church of England, in denying a bodily but exknowledging a real spiritual presence in the sacramental elements. 1882 M. CREIGHTON Hist. Papacy 1. (1890) 1. 124 Wycliff did not deny the real presence of Christ in the elements; he denied only the change of substance in the elements after consecutation.

3. a. That is actually and truly such as its name implies; possessing the essential qualities denoted by its name hence.

implies; possessing the essential qualities denoted by its name; hence, genuine, undoubted.

Undoubted.

1559 in Strype Ann. Ref. (1824) E. 11. App. vi. 401
Ecclesiasticall lawes made, cannot bynd the universall
collesiasticall lawes made, cannot bynd the universall
characteristic structure of the sca
spottolike. 1597 Housen Eccl. Pol. v. Ixvii, § 2 That which
sone is material, namely the real participation of Christ...
by means of this sacrament. 1669 MILTON P.L. x. 413
Janets..real Eclips Then sufferd. 1712 Addison Spect.
No. 275 F 3 Homer tells us that the Blood of the Gods is not
real Blood, but only something like it. 1790 BURKE Fr. Rev.
13 Pressing down the whole by the weight of a real
monarchy. 1836 Hon. SMITH I'm Trumpl. I. 12 Dressing like
a real, and driving like an amateur coachman. 1866 G.

EXHIBIT 7

RANDOM HOUSE WEBSTER'S UNABRIDGED DICTIONARY

Second Edition

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SULLIVAN & CROMWELL LLP



RANDOM HOUSE NEW YORK ready-made. [< F < E; term introduced by Du-in 1915]

**mix (red/*e miks/, -miks/), n. 1. a commercial stion in which the principal ingredients have alless mixed for easy use: a novice cook's reliance to mixes —adj. 2. Also, ready-mixed/. being a six; consisting of ingredients that are already ready-mix pancakes. [1945-50]

mon'ey, money that is in hand or may be ob quickly or easily; cash. [1870-75]

reck/oner, reckoner (def. 2). [1750-60]

FOOTH, a room in which members of an air-swait their orders for takeoff. [1940–45, Amer.]

**10-west (red's to war'), n. 1. clothing made dard sizes; ready-made clothing. —adj. 2. perto or dealing in such clothing: the ready-to-wear a ready-to-wear shop. Cf. made-to-measure, a ready-to-wear. [1890–95, Amer.]

wit-ted (red/e wit/id), adj. having a quick wit siligence. [1575-85] —read/y-wit/ted-ly, adv. y-wit/ted-ness, n.

(rā/gən), n. Ronald (Wilson), born 1911, 40th ant of the U.S. 1981-89.

theom-ics (rage nom'iks), n. the economic put forth by the administration of President Reagan, esp. as emphasizing supply-side theory.

[6]; b. REAGAN and ECONOMICS] —Rea/gan-om'-

it (rē ā/jent), n. Chem. a substance that, be-the reactions it causes, is used in analysis and is. [1790-1800; RE(ACT) + AGENT; cf. ACT]

if (re a'jin, -gin), n. Immunol. 1. Also called means artibody. an antibody formed in response alia and reactive with cardiolipin in various blood by the disease. 2. an antibody found in certain silergies, as hay fever and asthma. [1910–15; -in, equiv. to reag(ieren) to react + -in -in*]

allergies, as hay fever and asthma. [1910-15; < in, equiv. to reagtieren) to react + -in -in | [16 of, rel], adj. 1. true; not merely ostenaible, or apparent: the real reason for an act. 2. ear occurring as fact; actual rather than imaginary, or fictitious: a story taken from real life. 3. being use I thing; having objective existence; not imaginary, or fictitious: a story taken from real life. 3. being use I thing; having objective existence; not imaginary, or fictious: a story taken from real life. 3. being use I thing; having objective existence; not imaginary area of the property of the story. 5. genuine; not counterfeit, artificial miniation; authentic: a real antique; a real diareal silk. 6. unfeigned or sincere: real sympathy; friend. 7. Informal. absolute; complete; utter: a real brain. 8. Philos. a. existent or pertaining sistent as opposed to henomenial or apparent. 9. (of income, or the like) measured in purchasing rather than in nominal value: Inflation has a sopposed to phenomenal or apparent. 9. (of income down in real terms, though nominal integers to be higher. 10. Optics. (of an image) by the actual convergence of rays, as the image of in a camera (opposed to virtual). 11. Math. 2. Informal. value: real number: real numbers real analysis; real vector space. 12. Informal. a in reality; actually: You mean the house. —n. 13. See real number: real, Informal. a in reality; actually: You mean the hair green for real? b. real; actual: The ways plans to relocate are for real. c. genuine; sin! don't believe his friendly attitude is for real. 13. 4. a. something that actually exists, as a particulatity. b. reality in general. [1400-50; late ME < iii., equiv. to L. re., var. s. of rea thing + -ālis. 4. a. something that actually exists, as a particulatity. b. reality in general. [1400-50; late ME < iii., equiv. to L. re., var. s. of rea thing + -ālis. 4. a. something to accounterfeit, fulse or opposed to counterfeit, fulse or opposed to counterfeit, fulse or opposed to counterfeit.

1.-5. REAL, ACTUAL, TRUE in general use deobjects, persons, experiences, etc., that are what
see said or purport to be. That which is described as
is genuine as opposed to counterfeit, false, or
supposed: a real emerald; real leather binding;
sel ambition is to be a dentist. ACTUAL usually
scontrast with another state of affairs that has
supposed or suggested: The actual cost is much less;
seed one's actual motive. TRUE implies a perfect
spondence with actuality and is in direct contrast to
shich is false or inaccurate: a true account of the
not bravado but true courage. See also authen-

The intensifying adverb REAL, meaning is informal and limited to speech or to written entations of speech: He drives a real beat-up old he adjective REAL meaning "true, actual, genuine, is standard in all types of speech and writing: real reasons for objecting became clear in the dissection. The informal adjective sense "absolute, comis also limited to speech or representations of These interruptions are a real bother.

(rā āl'; Sp. ae āl'), n., pl. re-als (rā ālz'), Sp. re-(se à'les). a former silver coin of Spain and Span-sperica, the eighth part of a peso. [1605-15; < Sp: L rēgālis ascal]

(ra äl'; Port. Re äl'), n. sing. of reis.

ax/is (re/əl, rel), Math. the horizontal axis in an

state' (ré'al, rêl), 1. property, esp. in land:
acres of real estate. 2. See real property. [1705-

estate invest/ment trust/, an unincorpo-trust created for the purpose of investing in real sty or to extend credit to those engaged in conon Abbr.: REIT

re-al-gar (re al-ger, -gär), n. arsenic disulfide, As_rS_s, found in nature as an orange-red mineral and also produced artificially: used in pyrotechnics. Also called red orpiment. [1350-1400; ME < ML realger << Ar rahj al-ghār powder of the mine or cave]

re-a-li-a (re a-li-a, -a-li-a, ra a-li-a), n.pl. 1. Educ. objects, as coins, tools, etc., used by a teacher to illustrate everyday living. 2. Philos. things that are real. [1945–50; < LL realia real (things), neut. pl. of realis; see REAL!

re/ai in/come (re/ai, rel), the amount of goods and services that money income will buy. [1925-30]

re-al-ism (r8's liz'sm), n. 1. interest in or concern for the actual or real, as distinguished from the abstract, speculative, etc. 2. the tendency to view or represent things as they really are. 3. Fine Arts. a. treatment of forms, colors, space, etc., in such a manner as to emphasize their correspondence to actuality or to ordinary visual experience. Cf. idealism (def. 4), naturalism (def. 2). ual experience. Cf. idealism (def. 4), naturalism (def. 2). b. (usually cap.) a style of painting and sculpture developed about the mid-19th century in which figures and scenes are depicted as they are experienced or might be experienced in everyday life. 4. Literature. 2. a manner of treating subject matter that presents a careful description of everyday life, usually of the lower and middle classes. b. a theory of writing in which the ordinary, familiar, or mundane aspects of life are represented in a straightforward or matter-of-fact manner that is presumed to reflect life as it actually is Cf. naturalism (def. 1b). 5. Philos. 2. the doctrine that universals have a real objective existence. Cf. conceptualism, nominalism. b. the doctrine that objects of sense perception have an existence independent of the act of perception. Cf. idealism (def. 5a). [1810-20; REAL¹ + -ISM; cf. F réalisme]

re-al-1st (rs'e list), n. 1. a person who tends to view or represent things as they really are. 2. an artist or a writer whose work is characterized by realism. 3. Philos. an adherent of realism.—adj. 4. of or pertaining to realism or to a person who embodies its principles or practices: the realist approach to social ills realist paintings. [1595-1605; REAL! + -IST; cf. F réaliste]

paintings. [1595-1605; REAL! + -IST; cf. F réaliste]

re-al-is-itc (re's lis'tik), adj. 1. interested in, concerned with, or based on what is real or practical: a realistic estimate of costs; a realistic planner. 2. pertaining to, characterized by, or given to the representation in literature or art of things as they really are: a realistic novel. 3. resembling or simulating real life: a duck hunter skilled at making realistic decoys. 4. Philos. of or pertaining to realists or realism. [1855-60; REALIST + -IC] --re's-it-cal-ity, adv.

-5yn. 1. pragmatic, common-sense, hard-headed,

Svn 1. pragmatic, common-sense, hard-headed,

sensible.

re-al-ty (re al'1 té), n., pl. -ties for 3, 5-7. 1. the state or quality of being real. 2. resemblance to what is real. 3. a real thing or fact. 4. real things, facts, or events taken as a whole; state of affairs: the reality of the business world; vacationing to escape reality. 5. Philos. a. something that exists independently of ideas concerning it. b. something that exists independently of all other things and from which all other things derive. 6. something that is real. 7. something that constitutes a real or actual thing, as distinguished from something that is nerely apparent. 8. in reality, in fact or truth; actually: brave in appearance, but in reality a coward. [1540-50; ML realities. See REAL!. -ITY]

real/ity prin/ciple, Psychoanal. the motivating force or mechanism by which the child, who has previously sought immediate gratification of all wishes, realizes that gratification must sometimes be deferred or forgone. [1920-25]

real/thy test/ing. Psychiatry. the objective evalua-tion of situations, defective in certain psychoses, that en-able one to distinguish between the external and the in-ternal worlds and between the self and the nonself.

[1820-26] re-al--22-tion (re/-s le za/shen), n. 1. the making or being made real of something imagined, planned, etc. 2. the result of such a process: The new church was the realization of a ten-year dream. 3. the act of realizing or the state of being realized. 4. an instance or result of realizing. 5. Music. 2. the act of realizing a figured bass. b. a printed score of a realized figured bass. [1605-15]; < F réalisation, MF, equiv. to realis(er) to RE-ALIZE + -ation -ATION

ALIZE + -ation -ATION]

Teal-iZO (rē'e liz/), v., -ized, -iz-ing. —v.t. 1. to grasp or understand clearly. 2. to make real; give reality to (a hope, fear, plan, etc.). 3. to bring vividly to the mind. 4. to convert into cash or money: to realize securities. 5. to obtain as a profit or income for oneself by trade, labor, or investment. 6. to bring as proceeds, as from a sale: The goods realized \$1000. 7. Music. to sight-read on a keyboard instrument or write out in notation the full harmony and ornamentation indicated by (a figured bass). 8. Ling. to serve as an instance, representation, or embodiment of (an abstract linguistic element or category): In "Jack tripped," the subject is realized by "ed." —v.: 9 to convert property or goods into cash or money, Also, esp. Brit., realize/. [1605-15; < F réaliser, MF, equiv. to real RRAL! + :iser -ize] —re/al-iz/.a-ble, adj. —re/al-iz/a-bll/thy, re/al-iz/s-ble-ness, n. — Syn. 1. conceive, comprehend. 2. accomplish, effect. 3. See imagine. —Art. 1. misunderstand.

re-al-life (rē/el lif', rēl'-), adj. existing or happening in reality: real-life drama. [1830-40]

re'al line' (re'el, rel), Math. 1. See number line. 2. the real axis in the complex plane.

re-ai-ly (re/o li/), v.t., v.i., -lied, -ly-ing. to ally again or anew. [1425-75; late ME realy < MF real(!)ier; see

Teality (re'o le, re'le), adv. 1. in reality; actually: to see things as they really are. 2. genuinely or truly: a really honest man. 3. indeed: Really, this is too much—interi. 4. (used to express surprise, exasperation, etc.) [1400-50; late ME; see REAL¹, -LY]

realm (relm), n. 1. a royal domain; kingdom: the realm of England. 2. the region, sphere, or domain within which anything occurs, prevails, or dominates: the realm of dreams. 3. the special province or field of something or someone: the realm of physics; facts within the realm of political scientists. [1250-1300; ME realme, reaume of Prevailme, deriv. of reial < L regalis real.]—Syn. 1. See kingdom.

re'al num'ber (rê'el, rêl), Math. a rational number or the limit of a sequence of rational numbers, as opposed to a complex number. Also called real. [1905-10]

re'al part' (rê'al, rêl), Math. the number a in the complex number a+bi. Cf. imaginary part. [1960-65] re-al-po-il-tik (rā āl/pō/li tāk/, rē-), n. political real-ism or practical politics, esp. policy based on power rather than on ideals. Also, Re-al/po/il-tik/. [1910-15; < G. equiv. to real real. + Politik politics, policy; see POLITIC] —re-al-po-il-tik-er, (rā āl/pō lō/ti ker, rē-), n.

re'al pres'ence (re'el, rel), TheoL the doctrine that the substance of the body and blood of Christ are present in the Eucharist [1550-60]

re'al prop'erty (re'al, rel), Law. an estate or property consisting of lands and of all appurtenances to lands, as buildings, crops, or mineral rights (distinguished from personal property). [1760-70]

re'al stor'age, (re'el, rel), Computers. (in a virtual storage system) the portion of addressable memory that consists of main storage. Also called re'al mem'ory.

re/si time/ (18'al, 18l), 1. Computers, the actual time elapsed in the performance of a computation by a computer, the result of the computation being required for the continuation of a physical process. 2. the actual time during which a process takes place or an event occurs. 3. in rest time, Informal. at once; instantaneously. [1950-55]

re-al-time (re'al tim', rel'-), adj. Computers. of or pertaining to applications in which the computer must respond as rapidly as required by the user or necessitated by the process being controlled.

Re-al-tor (re'el ter, -tbr', rel'-), Trademark. a person who works in the real-estate business and is a member of the National Association of Real Estate Boards, or one of its constituent boards, and abides by its Code of Eth-

Te-ai-ty (rē'el tē, rēl'-), n. real property or real estate. [1400-50; late ME realte. See REAL', -TY*]

re/al var/lable (re/al, rel), Math. a variable to which only real numbers are assigned as values.

re/al wag/es (re/el, rel), wages estimated not in money but in purchasing power. Cf. nominal wages. [1880-85]

[1000-00] world' (re'el, rel), the realm of practical or actual experience, as opposed to the abstract, theoretical, or idealized sphere of the classroom, laboratory, etc.: recent college graduates looking for jobs in the real world of rising unemployment. [1960-65] —real-world', adj.

ream (rem), n. 1. a standard quantity of paper, consisting of 20 quires or 500 sheets (formerly 480 sheets), or 516 sheets (printer's ream or perfect ream). 2. Usually, reams. a large quantity: He has written reams of poetry. [1350-1400; ME rem(e) < MF reime, rame < Sp rezma < Ar rizmah bale]

ream² (rem), v.t. 1. to enlarge to desired size (a previously bored hole) by means of a reamer. 2. to clear with a reamer; remove or press out by reaming. 3. to extract the juice from: to ream an orange. 4. Slang. a. to scold or reprimand severely (usually fol. by out). b. to cheat; defraud. [1805-15; orig. uncert.]

reamer (re/mar), n. 1. any of various rotary tools, with helical or straight flutes, for finishing or enlarging holes drilled in metal. 2. any bladelike pick or rod used for scraping, shaping, or enlarging a hole: a pipe reamer. 3. a kitchen utensil for extracting and collecting juice from fruits, having a deep saucerlike base and in the center a grooved cone on which the fruit half is pressed down by hand. 4. Dentistry. a drill with a spiral blade, for enlarging root canals. [1815-25; REAM² + -ER¹]



CONCISE PRONUNCIATION KET: act, cape, dare, part; set, equal; if, ice; ox, over, order, oil, book, book, out; up, drge; child; sing, shoe; thin, that; th as in treasure, a = a as in alone, e as in system; i as in easily, o as in gallop, u as in circux, as in fire (fir), hour (out), 1 and n can serve as syllabic consonants, as in cradle (krād'l), and button (but'n). See the full key inside the front cover.

gra-vate/, v.t., -vat-ed,

gre-gate', v., -gat-ed, were ga/tion, n. tate, v., -tat-ed, -tat-

te/tion, n.

re-al/ien-ate/, v.t., -at-ed, -ating. re/al-ien-a/tion, n. re/a-lign/, v. re/a-lign/ment, n.

re/al-lot/ment, n. re/al-le-ga/tion, n. re/al-lege/, v.t., -leged, -leg-ing. re-al/ter, v. re-al/ter-a-ble, adj.; -ble-ness,

n.; -bly, adv.

re-ai/lo-cate/, v.t., -cat-ed, -cat- re/ai-ter-a/tion, n. ing. re/a-mal/ga-mate/, v_n -re/al-lo-ca/tion, n_n -at-ing. re/a-mal/ga-ma/tion, n_n re/a-mal/ga-ma/tion, n_n re/a-mai/ga-mate/, v., -at-ed, re/a-mass/, v.t.

re/a-mend/, v.

re/a-nal/y-sis, n., pl. -ses. re-an/a-lyz/a-ble, adj. re-an/a-lyze/, v.t., -lyzed, -lyz-ing. re-an/chor, v. re an-nex/, v.L re/an-nex-a/tion, n. re-an/no-tate/, v., -tat-ed, -tat-