

**THE CLAIMS**

What is claimed is:

5           1. A system for central management, storage and report generation of remotely captured paper transactions from documents and receipts comprising:

                  one or more remote data access subsystems for capturing and sending paper transaction data comprising at least one  
10 data access controller for managing the capturing and sending of the transaction data;

                  at least one central data processing subsystem for processing, sending, verifying and storing the paper transaction data comprising a data management subsystem for  
15 managing the processing, sending and storing of the transaction data; and

                  at least one communication network for the transmission of the transaction data within and between said one or more data access subsystems and said at least one data processing  
20 subsystem.

                  2. A system as in claim 1 wherein said one or more data access subsystems further comprise at least one scanner for capturing the paper transaction data.

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                  3. A system as in claim 2 wherein said one or more data access subsystems also capture electronic transactions from credit cards, smart cards and debit cards, signature data or biometric data, further comprising:

30                   at least one card interface for capturing the electronic transaction data;

                  at least one signature interface for capturing an electronic signature; and

                  at least one biometric interface for capturing biometric  
35 data.

4. A system as in claim 3 wherein said at least one data access controller successively transforms the captured transaction data to a bitmap image, a compressed bitmap image, an encrypted, compressed bitmap image and an  
5 encrypted, compressed bitmap image tagged with information identifying a location and time of the transaction data capture.

5. A system as in claim 4 wherein said one or more data  
10 access subsystems further comprise digital storage for storing the tagged, encrypted, compressed bitmap image.

6. A system as in claim 5 wherein said at least one card interface initiates the electronic transaction.  
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7. A system as in claim 6 wherein said one or more data access subsystems further comprise at least one printer for printing the paper transaction initiated by said at least one card interface.  
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8. A system as in claim 7 wherein the paper transaction printed by said at least one printer includes data glyphs.

9. A system as in claim 1 wherein said data management  
25 subsystem of said at least one data processing subsystem comprises:

at least one server for polling said one or more remote data access subsystems for transaction data;

a database subsystem for storing the transaction data in  
30 a useful form;

a report generator for generating reports from the transaction data and providing data to software applications;

at least one central processing unit for managing the storing of the transaction data;

35 a domain name services program for dynamically assigning one of said at least one server to receive portions of the

transaction data for balancing the transaction data among said at least one server; and  
a memory hierarchy.

5           10. A system as in claim 9 wherein said at least one server also polls for biometric and signature data, said database stores the biometric data and the signature data, and said at least one central processing unit verifies the biometric data and the signature data.

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11. A system as in claim 9 wherein said memory hierarchy comprises at least one primary memory for storage of recently accessed transaction data and at least one secondary memory for storage of other transaction data.

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12. A system as in claim 11 wherein said at least one secondary memory comprises at least one write once read many jukebox and at least one optical storage jukebox.

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13. A system as in claim 12 wherein said at least one optical storage jukebox comprises read only memory technology including compact disc read only memory form factor metallic write once read many disc.

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14. A system as in claim 9 wherein said database subsystem comprises at least one predefined template for partitioning the stored transaction data into panels and identifying locations of the panels.

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15. A system as in claim 14 wherein said data processing subsystem further comprises a data entry gateway for correcting errors in the panels of stored transaction data.

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16. A system as in claim 1 wherein said at least one communication network comprises:

at least one first local area network for transmitting data within a corresponding one of said one or more remote data access subsystems;

at least one second local area network for transmitting  
5 data within a corresponding one of said at least one data processing subsystem; and

at least one wide area network for transmitting data between said one or more remote data access subsystems and said at least one data processing subsystem.

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17. A system as in claim 16 wherein said at least one communication network further comprises:

at least one modem for connecting said at least one first local area network of said one or more data access  
15 subsystems to a corresponding one of said at least one second local area network of said at least one data processing subsystem through said at least one wide area network; and

at least one bank of modems for connecting said at least one second local area network of said at least one data  
20 processing subsystem to a corresponding some of said at least one first local area network of said one or more data access subsystems through said at least one wide area network.

18. A system as in claim 1 further comprising at least  
25 one data collecting subsystem for collecting and sending the electronic or paper transaction data comprising a further management subsystem for managing the collecting and sending of the transaction data.

30 19. A system as in claim 18 wherein said further data management subsystem of said at least one data collecting subsystem comprises:

at least one server for polling said one or more remote data access subsystems for transaction data;

35 a database for storing the transaction data in a useful form;

at least one central processing unit for managing the collecting of the transaction data;

a domain name services program for dynamically assigning one of said at least one server to receive portions of the transaction data for balancing the transaction data among said at least one server; and

a memory hierarchy.

20. A system as in claim 19 wherein said memory hierarchy comprises at least one primary memory for collecting transaction data and at least one secondary memory for backup storage of the transaction data.

21. A system as in claim 20 wherein said at least one secondary memory comprises at least one DLT jukebox.

22. A system as in claim 18 wherein said at least one communication network comprises:

at least one first local area network for transmitting data within a corresponding one of said one or more remote data access subsystems;

at least one second local area network for transmitting data within a corresponding one of said at least one data collection subsystem;

at least one third local area network for transmitting data within a corresponding one of said at least one data processing subsystem; and

at least one wide area network for transmitting data between said one or more remote data access subsystems, said at least one data collection subsystem and said at least one data processing subsystem.

23. A system as in claim 22 wherein said at least one communication network further comprises:

at least one first modem for connecting said at least one first local area network of said one or more data access subsystems to a corresponding one of said at least one second

local area network through said at least one wide area network;

at least one bank of modems for connecting said at least one second local area network of said at least one data collection subsystem to a corresponding some of said at least one first local area network of said one or more data access subsystems through said at least one wide area network;

at least one first wide area network router for connecting a corresponding one of said at least one second local area network of said at least one data collecting subsystem to said at least one wide area network; and

at least one second wide area network router for connecting a corresponding one of said at least one third local area network of said at least one data processing subsystem to said at least one wide area network.

24. A system as in claim 23 wherein said at least one first wide area network and said at least one second wide area network comprises a carrier cloud, said carrier cloud using a frame relay method for transmitting the transaction data.

25. A system as in claim 22 wherein said at least one second local area network and said at least one third local area network further comprises a corresponding one of at least one network switch for routing transaction data within said at least one second local area network and said at least one third local area network.

26. A method for central management, storage and verification of remotely captured paper transactions from documents and receipts comprising the steps of:

capturing and sending the paper transaction data at one or more remote locations;

managing the capturing and sending of the transaction data;

collecting, processing, sending and storing the transaction data at a central location;  
managing the collecting, processing, sending and storing of the transaction data; and  
5 transmitting the transaction data within and between the remote location(s) and the central location.

27. The method as in claim 26 wherein said managing the capturing and sending step comprises the steps of:

- 10 successively transforming the captured transaction data to a bitmap image, a compressed bitmap image, an encrypted, compressed bitmap image and an encrypted, compressed bitmap image tagged with information identifying a location and time of the transaction data capturing; and  
15 storing the tagged, encrypted, compressed bitmap image.

28. The method as in claim 27 wherein said managing the capturing and sending step also captures electronic transactions from credit cards, smart cards and debit cards,  
20 signature data or biometric data, further comprising the steps of:

- initiating an electronic transaction;  
capturing signature data;  
capturing biometric data; and  
25 printing a paper transaction with data glyphs for the initiated electronic transaction.

29. A method as in claim 26 wherein:  
said capturing and sending step occurs at a plurality of  
30 remote locations; and  
said collecting, processing, sending and storing step occurs at a plurality of central locations.

30. A method as in claim 29 wherein said collecting,  
35 processing, sending and storing step comprises the steps of:  
polling the remote locations for transaction data with servers at the central locations;

storing the transaction data at the central location in a memory hierarchy, said storing maintains recently accessed transaction data in a primary memory and other transaction data in a secondary memory; and

5 dynamically assigning the servers at the central location to receive portions of the transaction data for balancing the transaction data among the servers; and generating reports from the transaction data and providing data to software applications.

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31. A method as in claim 30 wherein said storing the transaction data step comprises the steps of:

partitioning the stored transaction data with predefined templates into panels; and

15 identifying locations of the panels.

32. A method as in claim 31 wherein said managing the collecting, processing, sending and storing of the transaction data step comprises correcting errors in the  
20 panels of stored transaction data.

33. A method as in claim 32 further comprising the steps of:

25 polling the remote locations for captured electronic data, captured signature data and captured biometric data with servers at the central locations; and

comparing the captured signature data and the captured biometric data to stored signature data and stored biometric data respectively for identification verification.

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34. A method as in claim 32 wherein said transmitting the transaction data step comprises the steps of:

transmitting data within the remote locations;

transmitting data from each remote location to a

35 corresponding central location; and

transmitting data within the central locations.

35. A method as in claim 34 wherein said transmitting data from each remote location to a corresponding central location step comprises the steps of:

- connecting each remote location to a corresponding central location; and
- connecting each central location to corresponding remote locations.

36. A method as in claim 29 further comprising the 10 steps of:

- collecting and sending the electronic or paper transaction data at intermediate locations;
- managing the collecting and sending of the transaction data; and
- 15 transmitting the transaction data within the intermediate location and between the intermediate locations and the remote locations and the central locations.

37. A method as in claim 36 wherein said managing the 20 collecting and sending step comprises the steps of:

- polling the remote locations for transaction data with servers in the intermediate locations;
- storing the transaction data in the intermediate locations in a useful form, said storing maintains the 25 transaction data in a primary memory of a memory hierarchy and performs backup storage of the transaction data into a secondary memory of the memory hierarchy; and
- dynamically assigning the servers to receive portions of the transaction data for balancing the transaction data among 30 the servers.

38. The method as in claim 36 wherein said transmitting the transaction data step comprises the steps of:

- transmitting data within the remote locations;
- 35 transmitting data from each remote location to a corresponding intermediate location;
- transmitting data within the intermediate locations;

transmitting data from each intermediate location to corresponding central locations; and  
transmitting data within the central locations.

5 39. A method as in claim 38 wherein said transmitting data from each remote location to corresponding intermediate locations step comprises the steps of:

connecting each remote location to a corresponding intermediate location; and

10 connecting the intermediate locations to corresponding remote locations.

40. A method as in claim 38 wherein said transmitting data from each intermediate location to corresponding central  
15 locations comprises the steps of:

connecting each intermediate location to an external communication network; and

connecting the corresponding central locations to the communication network.

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41. A method as in claim 40 wherein said transmitting data from each intermediate location to corresponding central locations step further comprises the steps of:

packaging the transaction data into frames; and

25 transmitting the frames through the external communication network.

42. A communication network for the transmission of data within and between one or more remote subsystems, at  
30 least one intermediate subsystem and at least one central subsystem forming a tiered architecture wherein each of said at least one central data processing subsystem communicate with a corresponding some of said at least one data  
collecting subsystem and each of said at least one data  
35 collecting subsystem communicate with a corresponding some of said one or more data processing subsystems comprising:

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at least one first local area network for transmitting data within a corresponding one of said one or more remote subsystems;

5 at least one second local area network for transmitting data within a corresponding one of said at least one intermediate subsystem;

at least one third local area network for transmitting data within a corresponding one of said at least one central subsystem; and

10 at least one wide area network for transmitting data between said one or more remote subsystems, said at least one intermediate subsystem and said at least one central subsystem.

15 43. A communication network as in claim 42 further comprising:

at least one first modem for connecting said at least one first local area network of said one or more remote subsystems to a corresponding one of said at least one second 20 local area network through said at least one wide area network;

at least one bank of modems for connecting said at least one second local area network of said at least one intermediate subsystem to a corresponding some of said at 25 least one first local area network of said one or more remote subsystems through said at least one wide area network;

at least one first wide area network router for connecting a corresponding one of said at least one second local area network of said at least one intermediate 30 subsystem to said at least one wide area network; and

at least one second wide area network router for connecting a corresponding one of said at least one third local area network of said at least one central subsystem to said at least one wide area network.

35 44. A system as in claim 43 wherein said at least one first wide area network and said at least one second wide

area network comprises a carrier cloud which utilizes a frame relay method for transmitting the transaction data.

45. A system as in claim 44 wherein said at least one  
5 second local area network and said at least one third local  
area network further comprises a corresponding one of at  
least one network switch for routing transaction data within  
said at least one second local area network and said at least  
one third local area network; and further wherein said data  
10 comprises (a) electronic transactions from credit cards,  
smart cards and debit cards, signature data or biometric  
data, or (b) paper transactions from documents and receipts.

46. A method for transmitting data within and between  
15 one or more remote subsystems, at least one intermediate  
subsystem and at least one central subsystem in a tiered  
manner wherein each of the central subsystems communicate  
with a corresponding some of the intermediate subsystems and  
each of the intermediate subsystems communicate with a  
20 corresponding some of the remote subsystems comprising the  
steps of:

transmitting data within the remote locations;  
transmitting data from each remote location to a  
corresponding intermediate location;  
25 transmitting data within the intermediate locations;  
transmitting data from each intermediate location to  
corresponding central locations; and  
transmitting data within the central locations.

47. A method as in claim 46 wherein said transmitting  
30 data from each remote location to corresponding intermediate  
locations step comprises the steps of:

connecting each remote location to a corresponding  
intermediate location; and  
35 connecting the intermediate locations to corresponding  
remote locations.

48. A method as in claim 47 wherein said transmitting data from each intermediate location to corresponding central locations comprises the steps of:

- connecting each intermediate location to an external communication network; and
- connecting the corresponding central locations to the external communication network.

49. A method as in claim 48 wherein said transmitting data from each intermediate location to corresponding central locations step further comprises the steps of:

- packaging the transaction data into frames; and
- transmitting the frames through the external communication network.

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50. A method as in claim 46 wherein said data is obtained from (a) electronic transactions from credit cards, smart cards and debit cards, signature data or biometric data, or (b) paper transactions from documents and receipts.

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51. A method for central management, storage and verification of remotely captured paper transactions from documents and receipts as in claim 33 wherein said comparing step further comprises the step of comparing said captured electronic data to stored electronic data.

52. A method for central management, storage and verification of remotely captured paper transactions from documents and receipts as in claim 51 wherein said transaction data comprises a payer bank's identification number, a payer bank's routing number, a payer bank's routing information, a payer's account number, a payer's check, a payer bank's draft, a check amount, a payee bank's identification number, a payee bank's routing information, and a payee's account number.

53. A method for central management, storage and verification of remotely captured paper transactions from documents and receipts as in claim 52 wherein said managing the collecting, processing, sending and storing step further comprises the step of performing said paper transaction by transferring funds electronically from a payer bank to a payee bank.

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**REMOTE IMAGE CAPTURE  
WITH CENTRALIZED PROCESSING AND STORAGE**

**ABSTRACT**

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A system for remote data acquisition and centralized processing and storage is disclosed called the DataTreasury™ System. The DataTreasury™ System provides comprehensive support for the processing of documents and electronic data associated with different applications including sale,  
10 business, banking and general consumer transactions. The system retrieves transaction data such as credit card receipts checks in either electronic or paper form at one or more remote locations, encrypts the data, transmits the  
15 encrypted data to a central location, transforms the data to a usable form, performs identification verification using signature data and biometric data, generates informative reports from the data and transmits the informative reports to the remote location(s). The DataTreasury™ System has many  
20 advantageous features which work together to provide high performance, security, reliability, fault tolerance and low cost. First, the network architecture facilitates secure communication between the remote location(s) and the central processing facility. A dynamic address assignment algorithm  
25 performs load balancing among the system's servers for faster performance and higher utilization. Finally, a partitioning scheme improves the error correction process.

**CROSS-REFERENCE TO RELATED APPLICATIONS**

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This application is a continuation-in-part of application serial no. 08/917,761 filed August 27, 1997.

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**DECLARATION  
AND POWER OF ATTORNEY**

I, the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. underneath my name.

I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**REMOTE IMAGE CAPTURE WITH CENTRALIZED PROCESSING AND STORAGE**

Under which a patent application is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendments referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of this application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT filing date of this application:

APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED
08/917,761	August 27, 1997		X	

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint S. Leslie Misrock (Reg. No. 18872), Harry C. Jones, III (Reg. No. 20280), Joseph A. Barron (Reg. No. 20060), Gerald J. Flintoft (Reg. No. 20823), David Weild, III (Reg. No. 21094), Jonathan A. Marshall (Reg. No. 21094), Harry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Isaac Jarkovsky (Reg. No. 22713), Joseph V. Colaianni (Reg. No. 20019), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Kenneth Coggio (Reg. No. 27624), Rory J. Radking (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 29166), James N. Palik (Reg. No. 25510), Thomas B. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30742), Jon R. Stark (Reg. No. 30111), Allan A. Fanucci (Reg. No. 30256), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Marcia H. Sundeen (Reg. No. 30893), Paul J. Rogers (Reg. No. 33821), Edmond R. Bannon (Reg. No. 32110), Bruce J. Barker (Reg. No. 33291), Adriane M. Antler (Reg. No. 32605), James G. Rowan (Reg. No. 34419), Ann L. Gisolfi (Reg. No. 31956), Mark A. Farley (Reg. No. 33170), and James G. Markey (Reg. No. 33170), all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, and each of them, my attorneys, to prosecute this application, and to conduct all business in the Patent and Trademark Office connected therewith.

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MAY 18 7 98 REC'D-122981 PENNIE & EDMONDS

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<b>POST OFFICE ADDRESS</b>	<b>STREET</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>
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<b>POST OFFICE ADDRESS</b>	<b>STREET</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>
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<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b>	<b>STATE OR FOREIGN COUNTRY</b>	<b>COUNTRY OF CITIZENSHIP</b>
<b>POST OFFICE ADDRESS</b>	<b>STREET</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>
			<b>ZIP CODE</b>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements are punishable under the validity of the application or any patent issuing thereon.

<b>SIGNATURE OF INVENTOR 202</b> <i>Claudio R. Ballard</i>	<b>SIGNATURE OF INVENTOR 203</b>
<b>DATE</b> May 18, 1998	<b>DATE</b>
<b>SIGNATURE OF INVENTOR 204</b>	<b>SIGNATURE OF INVENTOR 205</b>
<b>DATE</b>	<b>DATE</b>

P. 3-8

(2)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Claudio R. BALLARD

Application No.: To Be Assigned

Group Art Unit:

Filed: Herewith

Examiner:

For: REMOTE IMAGE CAPTURE WITH  
CENTRALIZED PROCESSING AND  
STORAGE

Attorney Docket No.:  
2269-007

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
[37 CFR 1.9(f) and 1.27(c)] - Small Business Concern

Assistant Commissioner for Patents  
Washington, D.C. 20231

By:

I hereby declare that I am an official of the small business concern empowered to act in behalf of the concern identified below:

CSP Holdings, LLC  
16 West Neck Court  
Lloyd Harbor, New York 11743

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the person employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern and/or there is an obligation under contract or law by the inventor(s) to convey rights to the small business concern with regard to the invention, entitled REMOTE IMAGE CAPTURE WITH CENTRALIZED PROCESSING AND STORAGE by Claudio R. BALLARD described in the specification filed herewith.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

FULL NAME:

ADDRESS:

INDIVIDUAL  SMALL BUSINESS CONCERN  NONPROFIT ORGANIZATION

PEDC-122545.1

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I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. [37 CFR 1.28 (b)]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, and patent issuing thereon, or any patent to which this verified statement is directed.

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Title: PRESIDENT

Address: \_\_\_\_\_

Signature: *Claudio R. Ballard*

Date: May 18, 1998

PEDC-122545.1

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MAY 18 '98 03:32PM PENNIE & EDMONDS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

C. BALLARD

Application No.: 09/081,012

Group Art Unit: 3642

Filed: May 19, 1998

Examiner:

For: REMOTE IMAGE CAPTURE WITH  
CENTRALIZED PROCESSING AND  
STORAGE

Attorney Docket No.:  
2269-007

REQUEST FOR CORRECTED FILING RECEIPT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant respectfully requests that the Patent Office correct the Filing Receipt for the above-identified application as follows:

Change the Attorney Docket No. from "2269-003" to --2269-007--.

A copy of the Filing Receipt marked with the requested change is enclosed along with a copy of the Declaration and Power of Attorney in support of this request.

No fee is believed to be due for this submission. Should any fees be required, however, please charge such fees to Pennie & Edmonds LLP Deposit Account No. 16-1150.

Respectfully submitted,

6/24/98

Date



Allan A. Fanucci, Reg. No. 30,256

PENNIE & EDMONDS LLP  
1667 K Street, N.W.  
Washington, DC 20006

(202) 496-4400

Enclosure

PEDC-125295.1

DTC000310

D 067013



ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

FILING RECEIPT

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
081,012	05/19/98	3642	\$799.00	<del>2269-003</del>	11	53	4

20582  
ENNIE EDMONDS  
567 K STREET NW  
SUITE 1000  
WASHINGTON DC 20006

2269-007

is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the  
of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF  
when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy  
of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's  
Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s) CLAUDIO R. BALLARD, LLOYD HARBOR, NY.

CONTINUING DATA AS CLAIMED BY APPLICANT-  
THIS APPLN IS A CIP OF 08/917,761 08/27/97

FOREIGN FILING LICENSE GRANTED 06/09/98 \* SMALL ENTITY \*

TITLE  
REMOTE IMAGE CAPTURE WITH CENTRALIZED PROCESSING AND STORAGE

PRELIMINARY CLASS: 380

(see reverse)

**DECLARATION  
AND POWER OF ATTORNEY**

I, the named inventor, I hereby declare that:

The name, post office address and citizenship are as stated below at 201 et seq. underneath my name.

I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

**REMOTE IMAGE CAPTURE WITH CENTRALIZED PROCESSING AND STORAGE**

in which a patent application is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendments referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations,

and I claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT filing date of this application:

APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED
06/917,761	August 27, 1997		X	

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint S. Leslie Misrock (Reg. No. 18872), Harry C. Jones, III (Reg. No. 20280), Robert J. Bazzani (Reg. No. 20060), Gerald J. Flintoft (Reg. No. 20823), David Weldt, III (Reg. No. 21094), Jonathan A. Marshall (Reg. No. 21094), Harry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Isaac Jarkovsky (Reg. No. 22713), Joseph V. Colaianni (Reg. No. 26019), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles J. Grogan (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lanter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Robert Caggio (Reg. No. 27624), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 29166), James N. Palik (Reg. No. 25510), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30742), Jon R. Stark (Reg. No. 30111), Allan A. Fanucci (Reg. No. 30256), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Bafancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Marcia H. Sundeen (Reg. No. 30893), Paul J. Berman (Reg. No. 33821), Edmond R. Bannon (Reg. No. 32110), Bruce J. Barker (Reg. No. 33291), Adriane M. Antler (Reg. No. 32605), Robert Rowan (Reg. No. 34419), Ann L. Gisolfi (Reg. No. 31956), Mark A. Farley (Reg. No. 33170), and James G. Markey (Reg. No. 33170) of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, and each of them, my attorneys, to prosecute this application, and to conduct all business in the Patent and Trademark Office connected therewith.



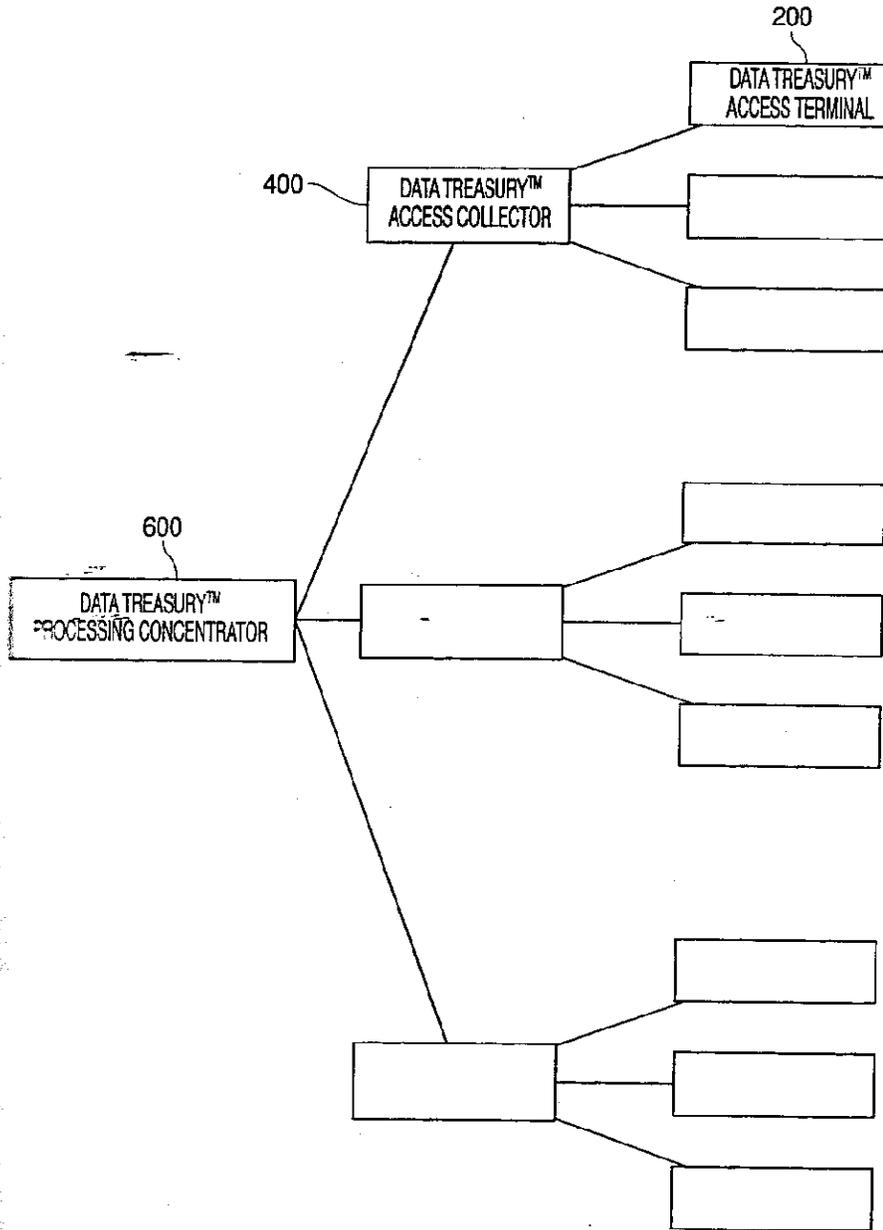


FIG. 1

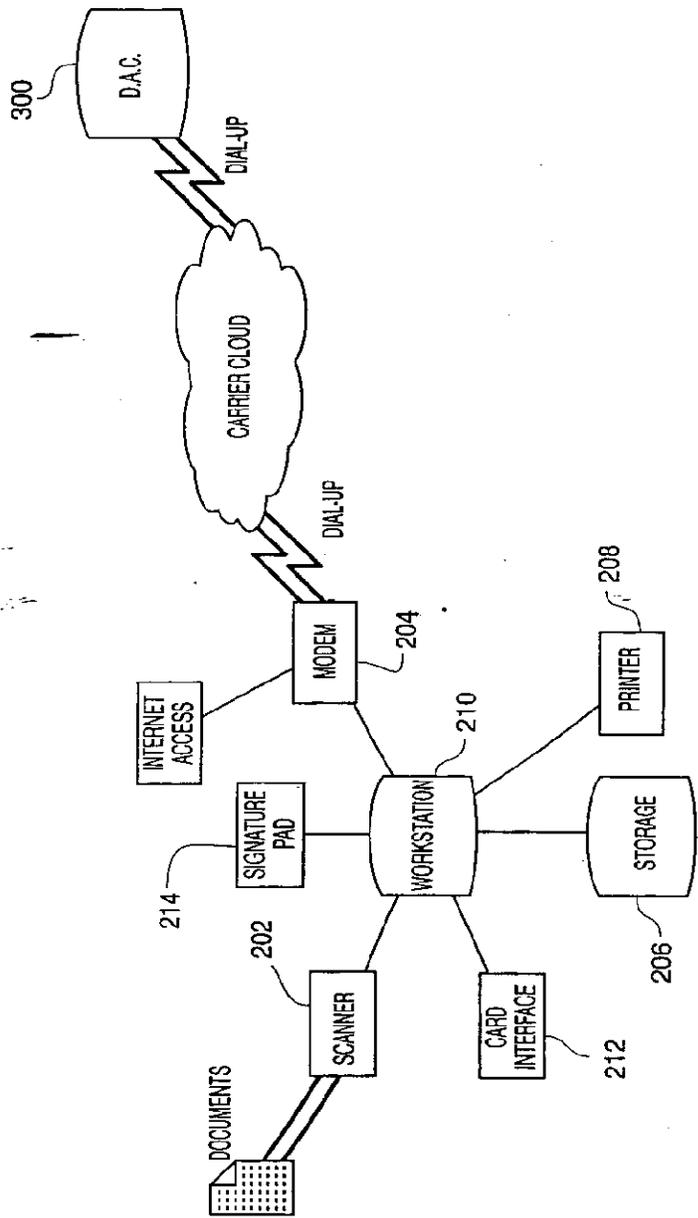


FIG. 2

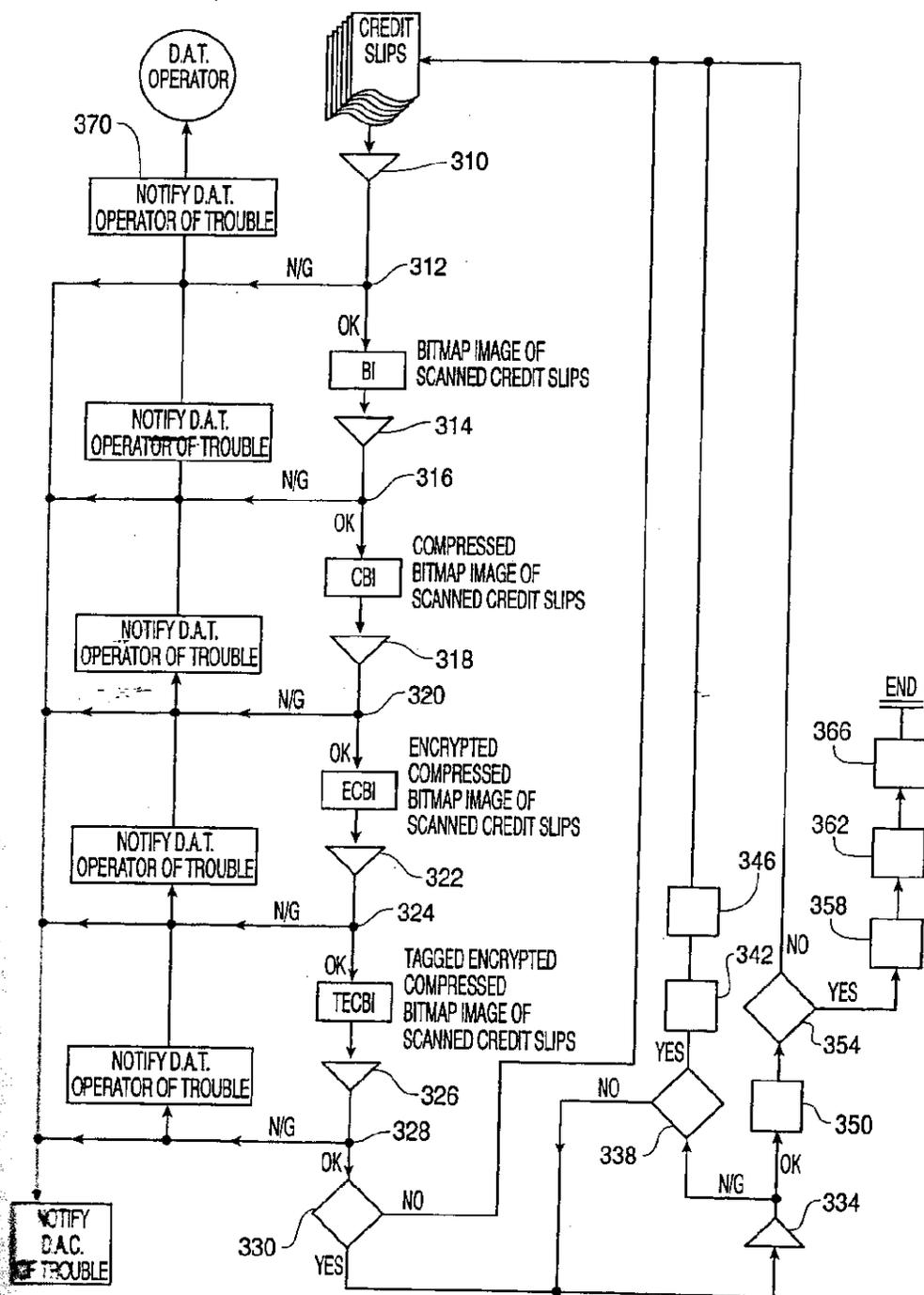


FIG. 3A

XEROX DATAGLYPH

OFFICE DEPOT  
2110 BROAD HOLLOW ROAD  
FARMINGDALE, NY 11735  
516-844-0444

2.16D 9464 3305 0373 001

SALE 06/18/97 16.42

75608700053 BUSINESS PLAN PRO 89.99  
MFG. LIST \$95.00  
SUBTOTAL 89.99  
TX 8.225% SALES TAX 7.42  
TOTAL 97.41

ACCOUNT NUMBER 9999888877776666  
EXPIRATION DATE 01/98  
VISA 97.41  
CHANGE 0.00

THANK YOU FOR SHOPPING AND SAVING AT  
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FIG. 3B

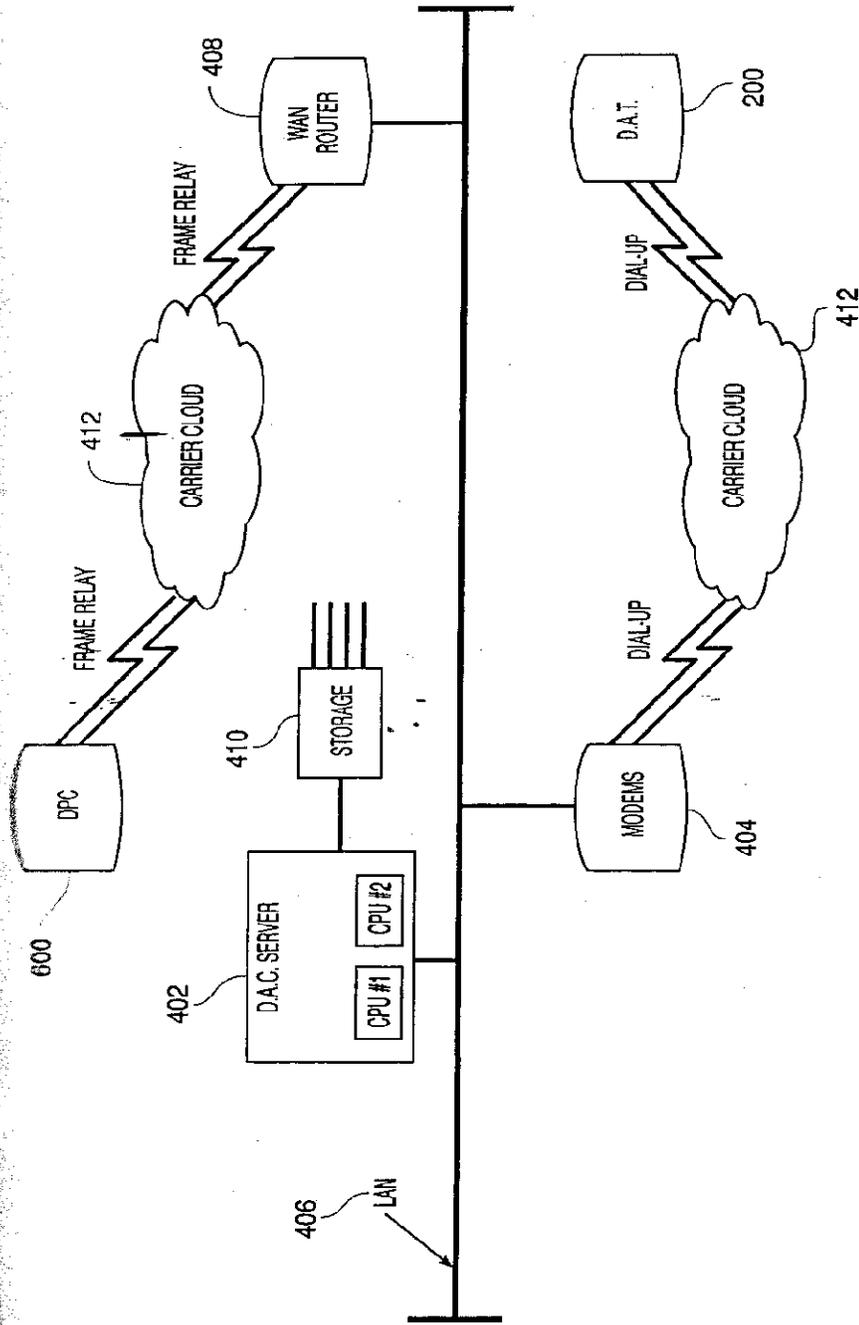


FIG. 4

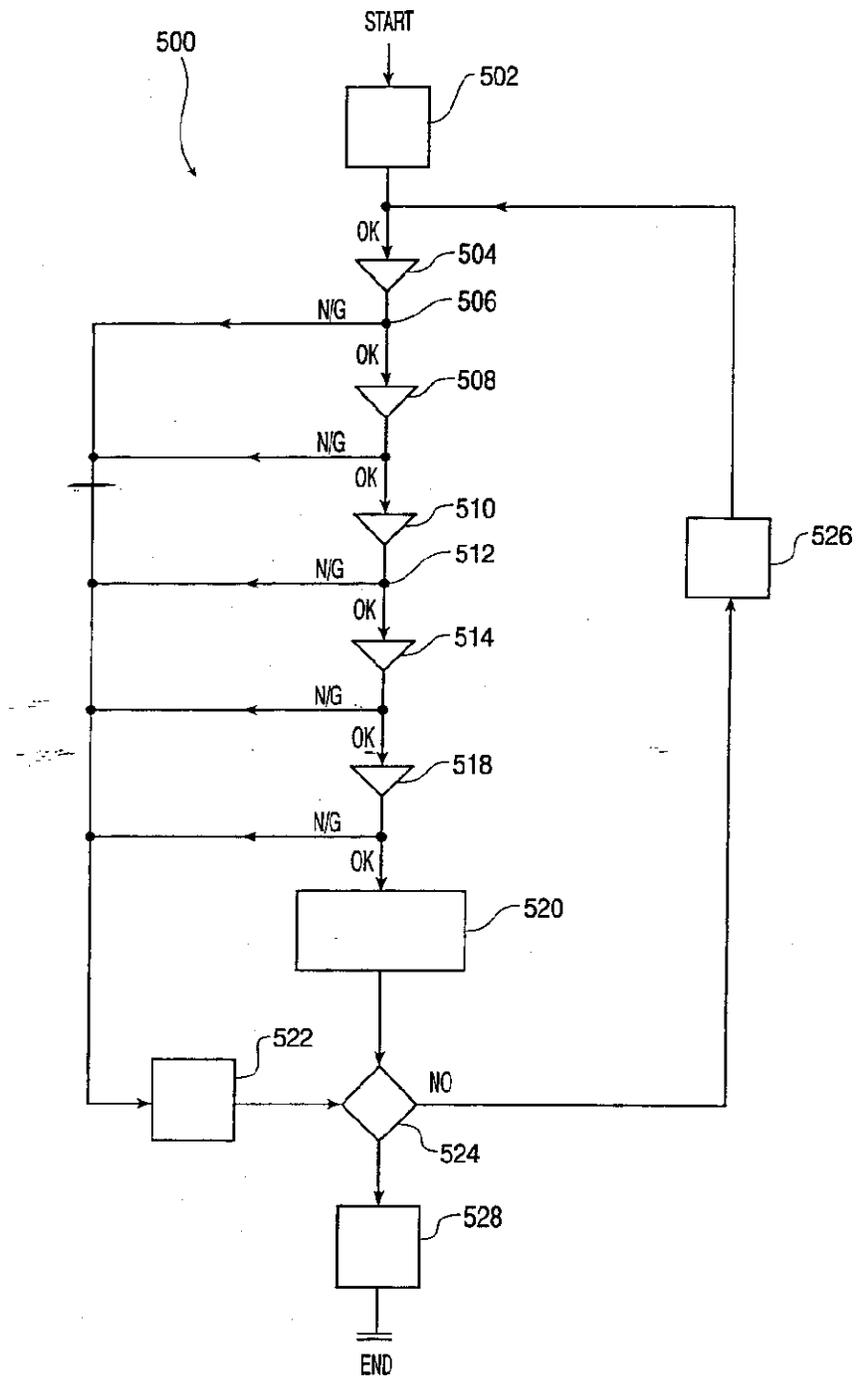


FIG. 5

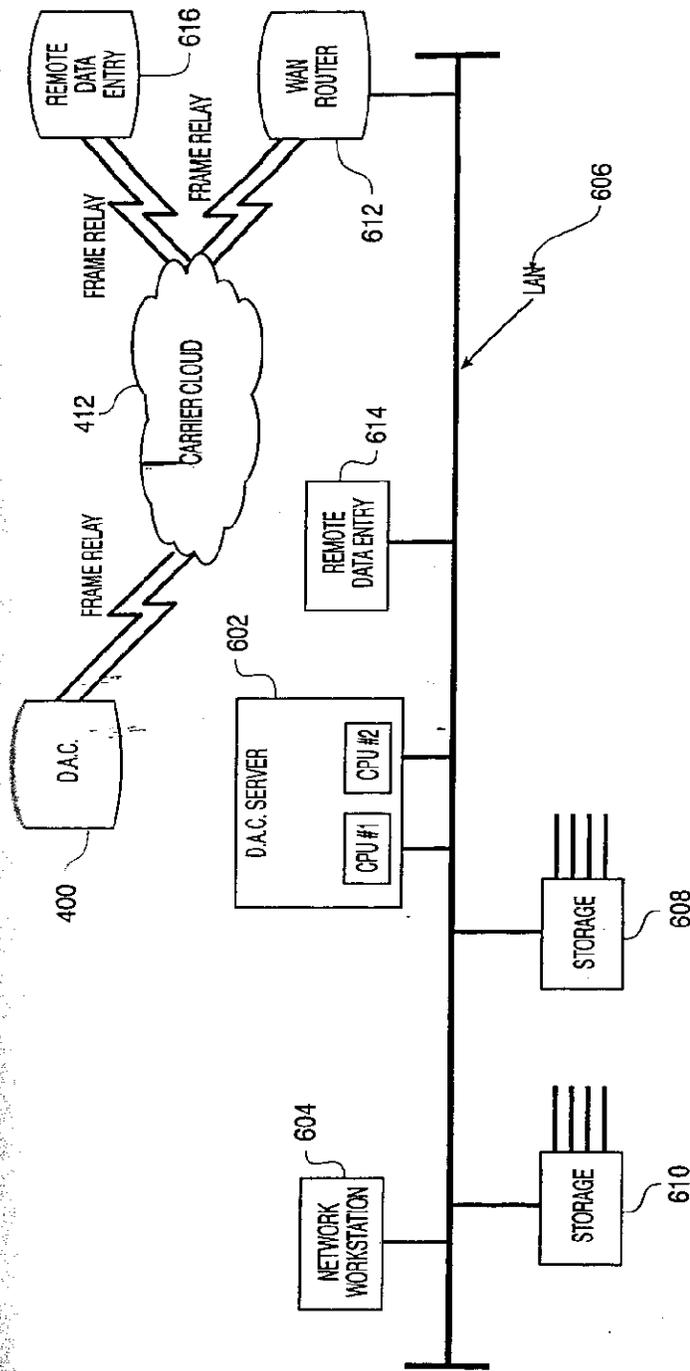


FIG. 6



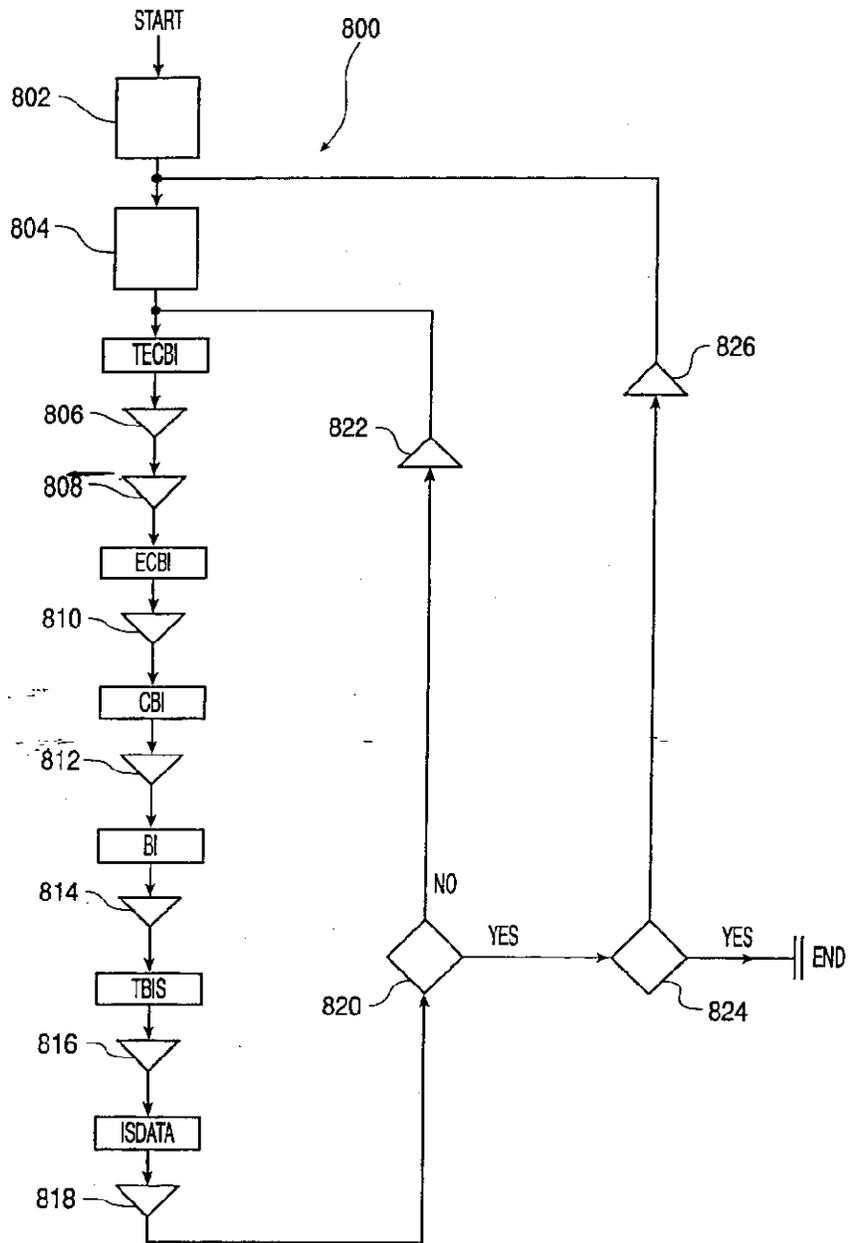


FIG. 8

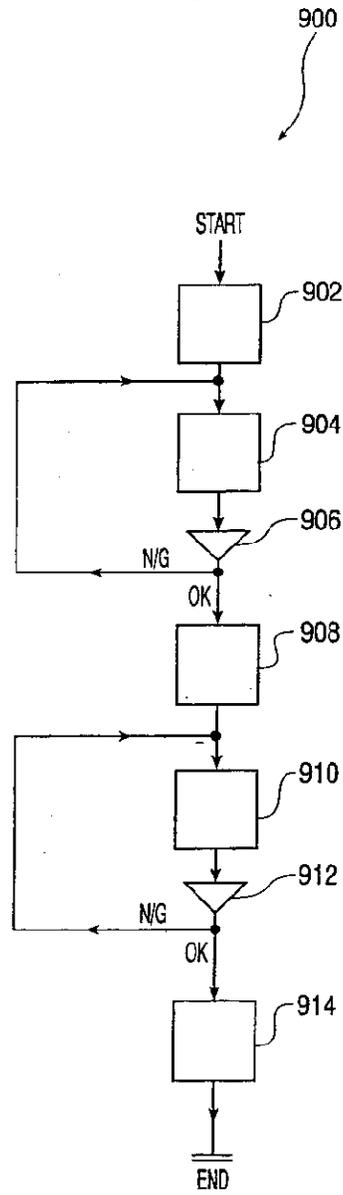


FIG. 9

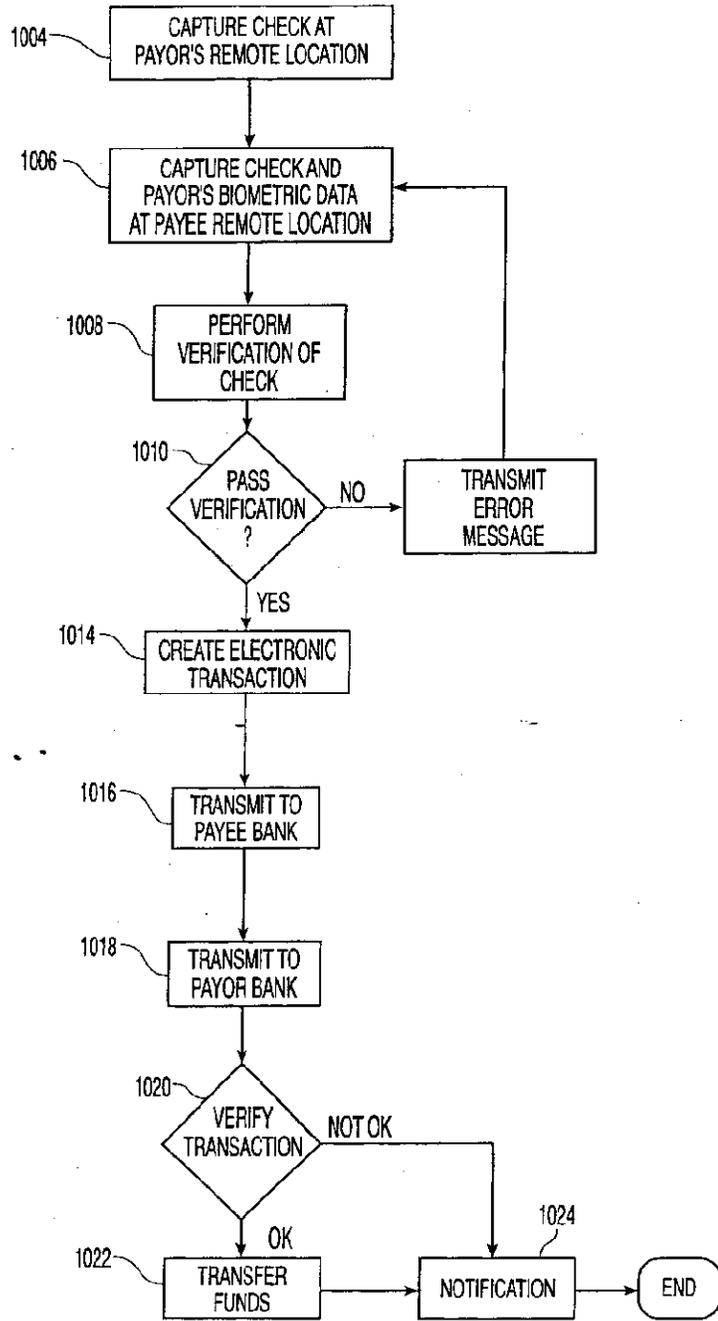


FIG. 10

FIG. 3A
CLASS
SUBCL.
705
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6032137

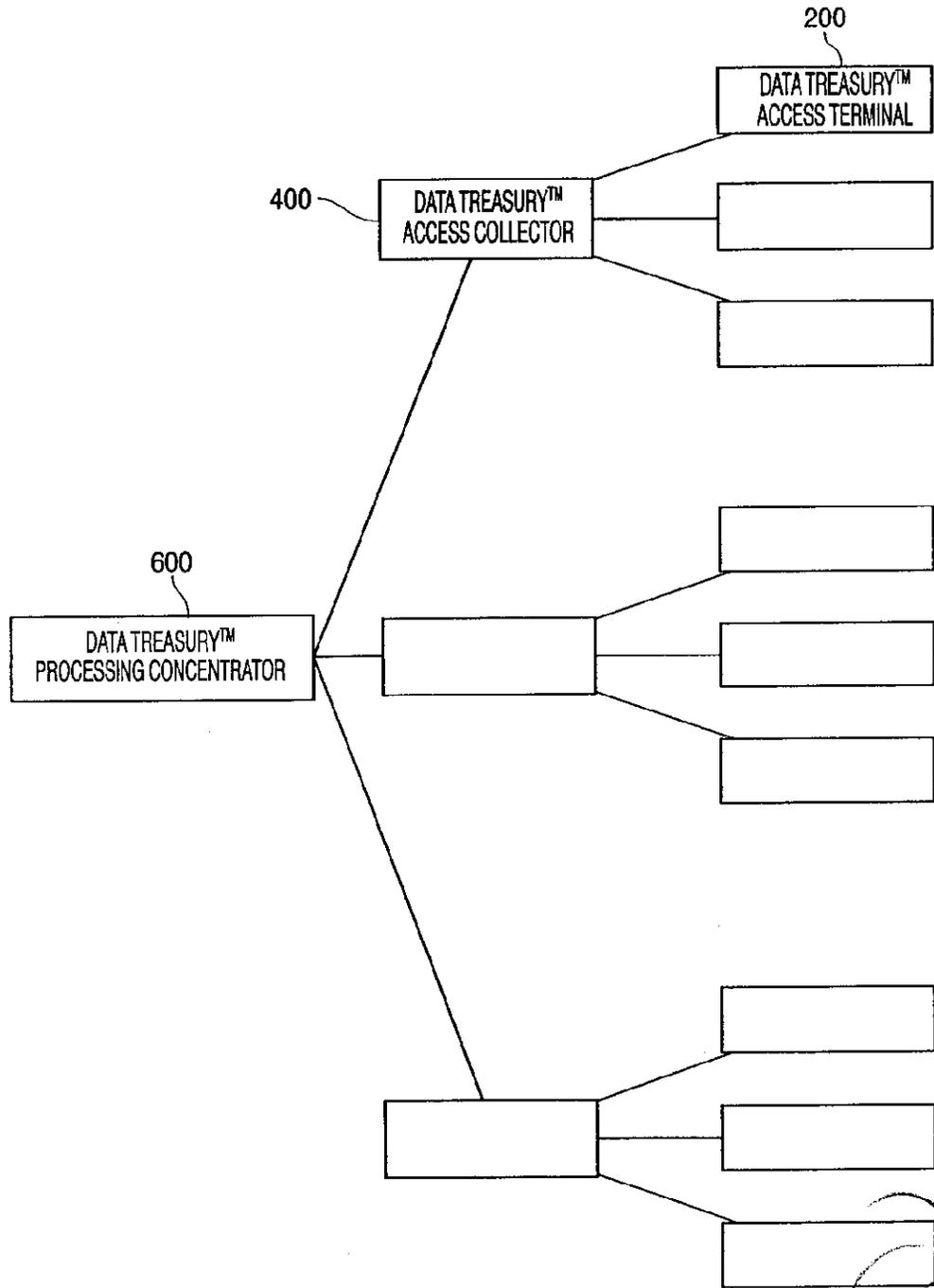


FIG. 1

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O.G. FIG.  
52397

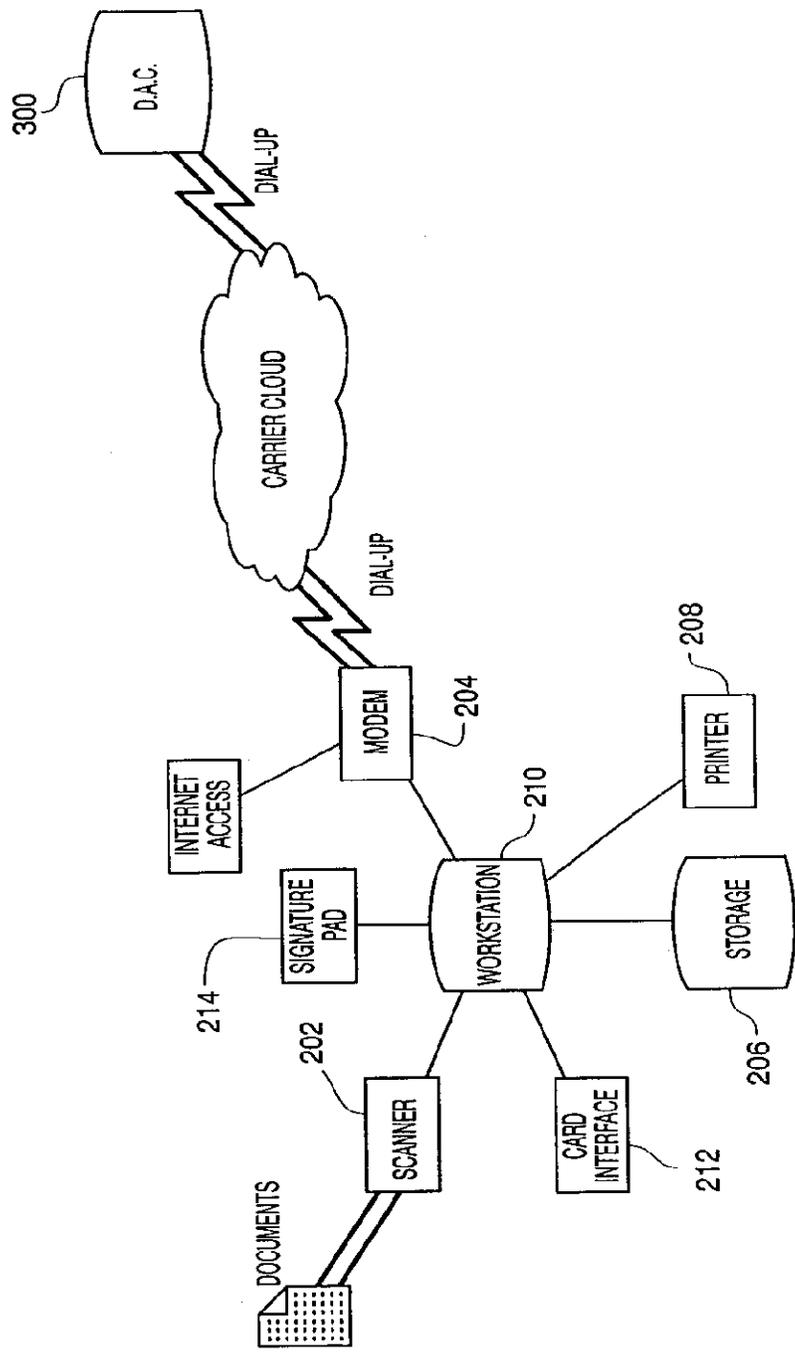


FIG. 2

O.G. FIG. 3A  
 CLASS. SUBCLASS  
 703 75

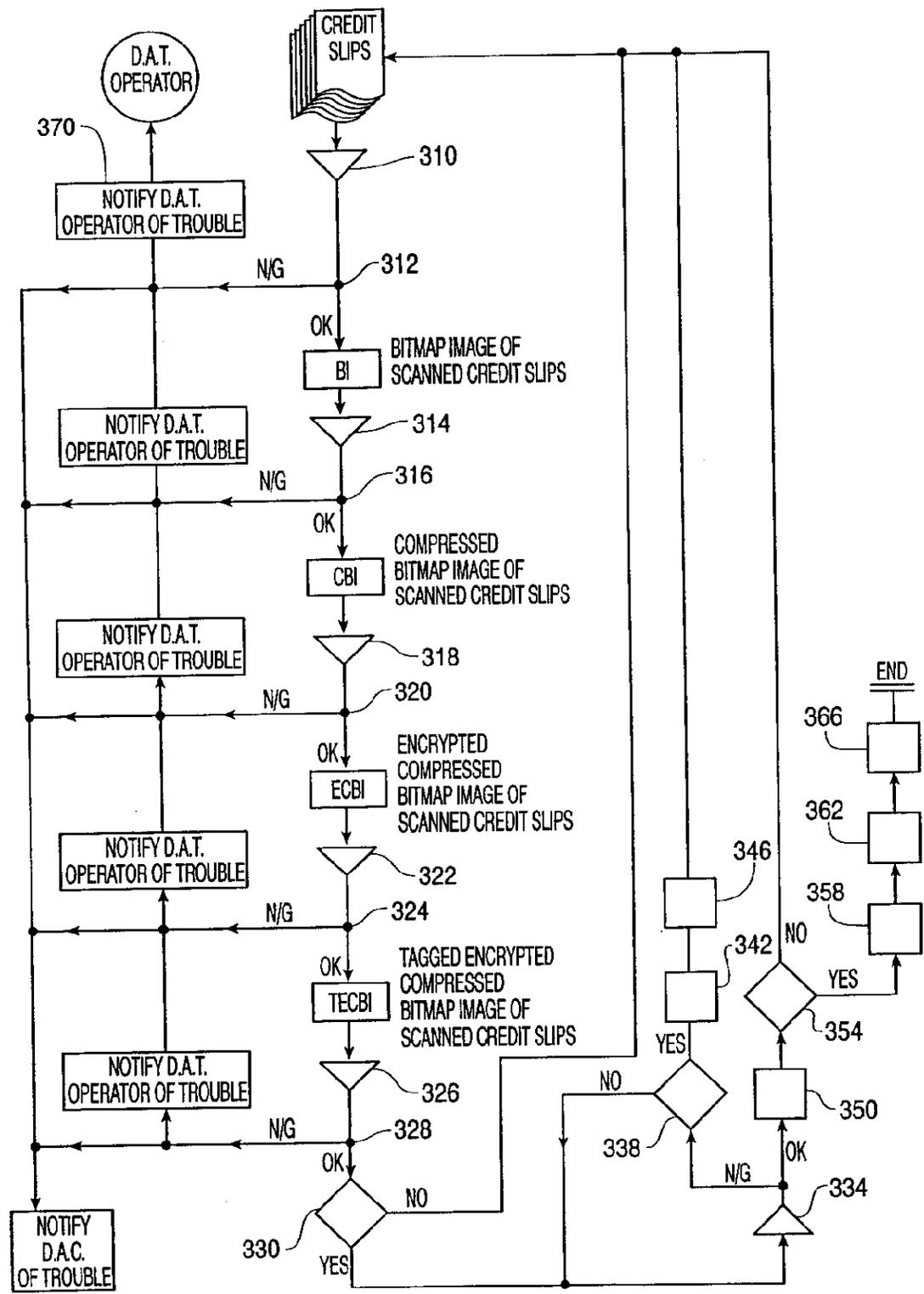


FIG. 3A

XEROX DATAGLYPH

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FARMINGDALE, NY 11735  
516-844-0444

2.16D 9464 3305 0373 001

SALE 06/18/97 16:42

75608700053 BUSINESS PLAN PRO 89.99  
MFG. LIST \$95.00

SUBTOTAL 89.99

TX 8.225% SALES TAX 7.42

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CHANGE 0.00

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FIG. 3B

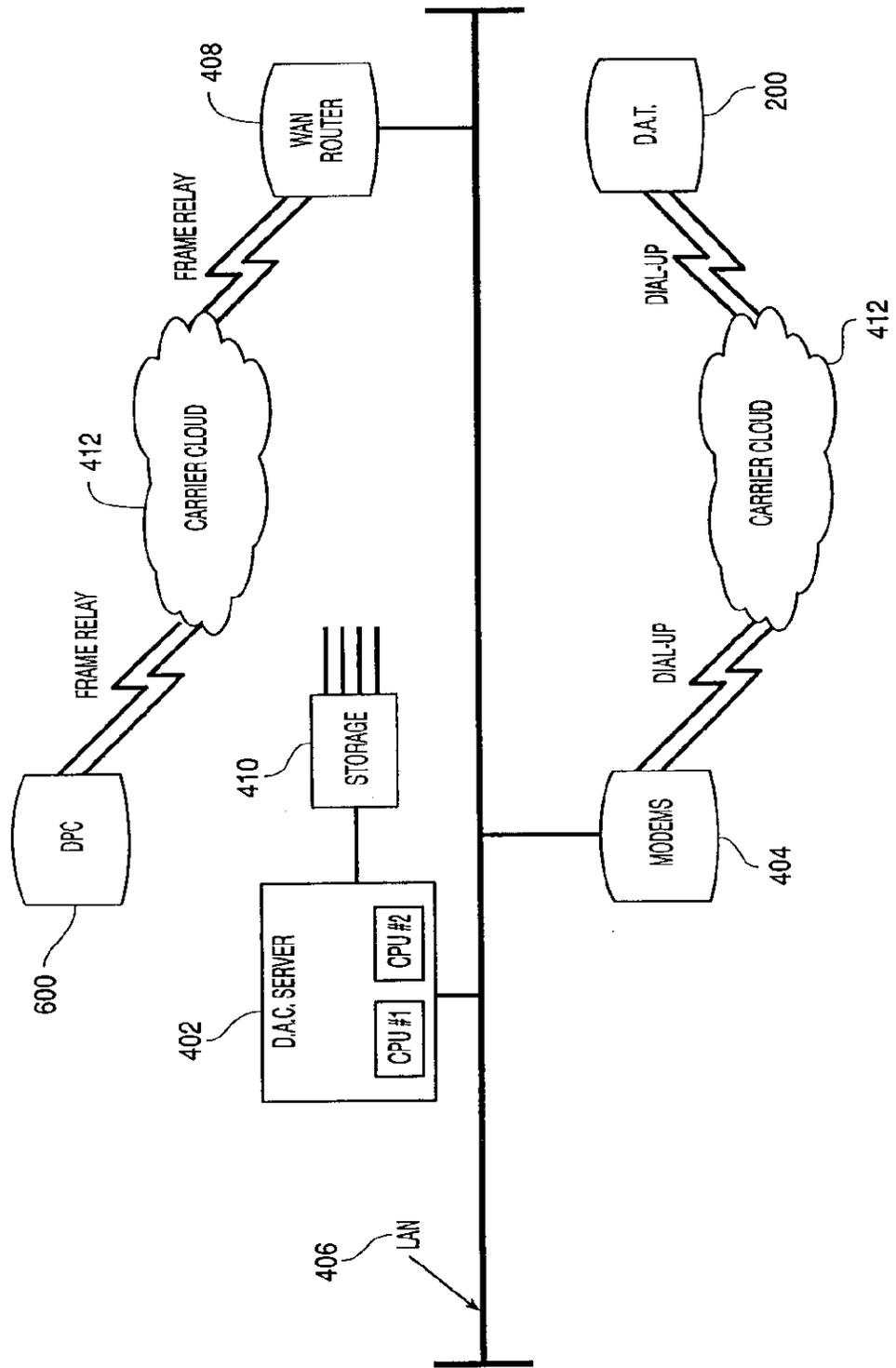


FIG. 4

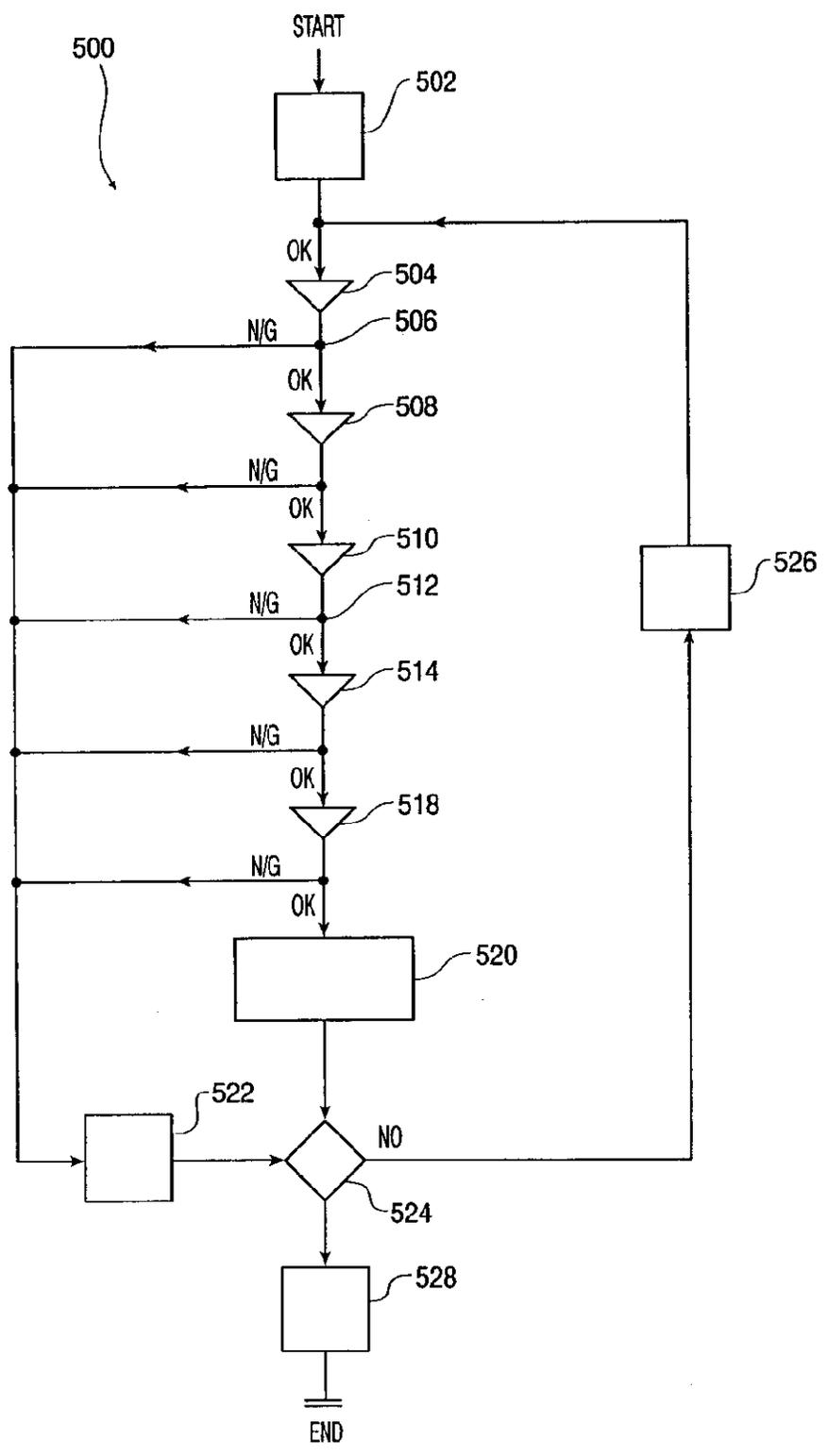


FIG. 5

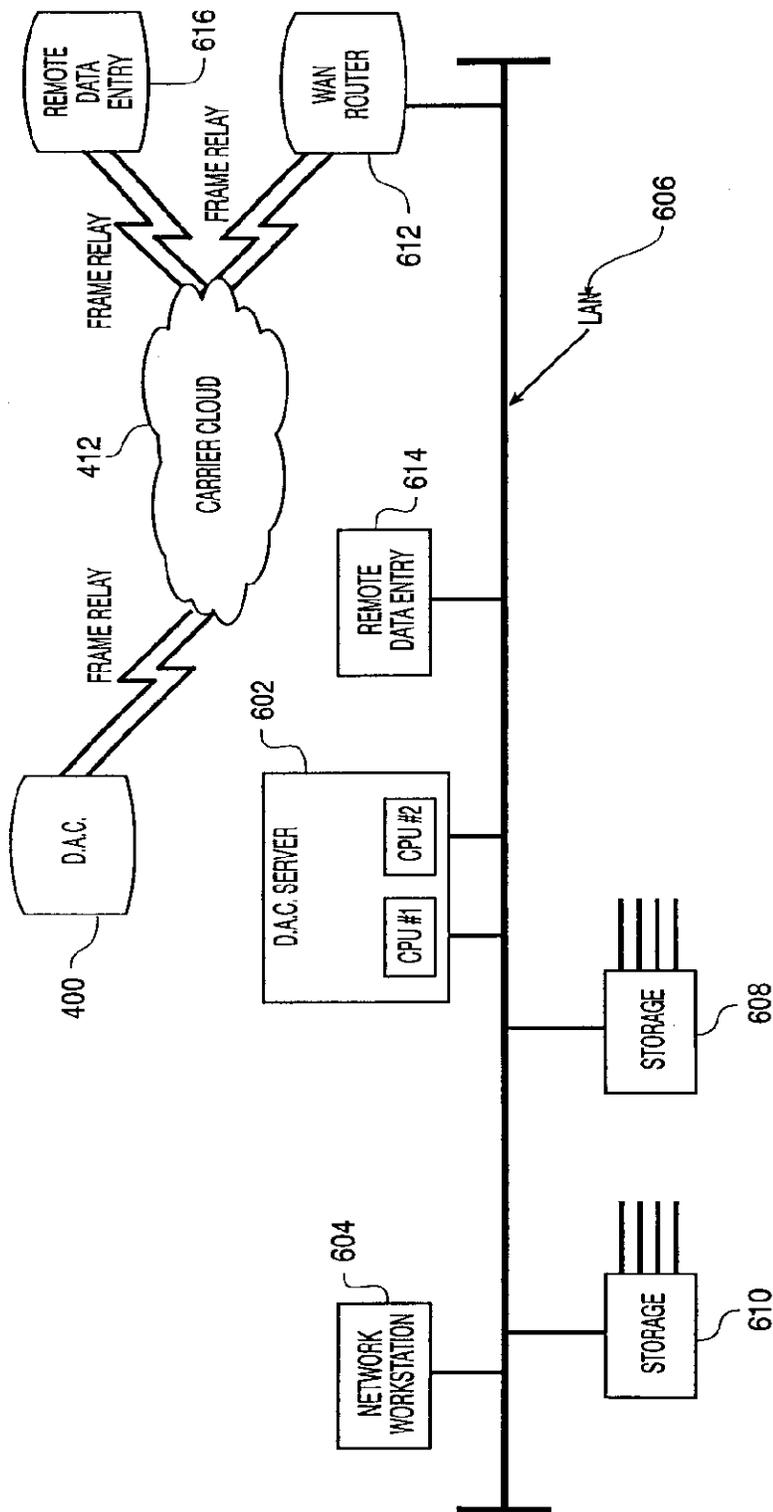


FIG. 6

FIG. 7

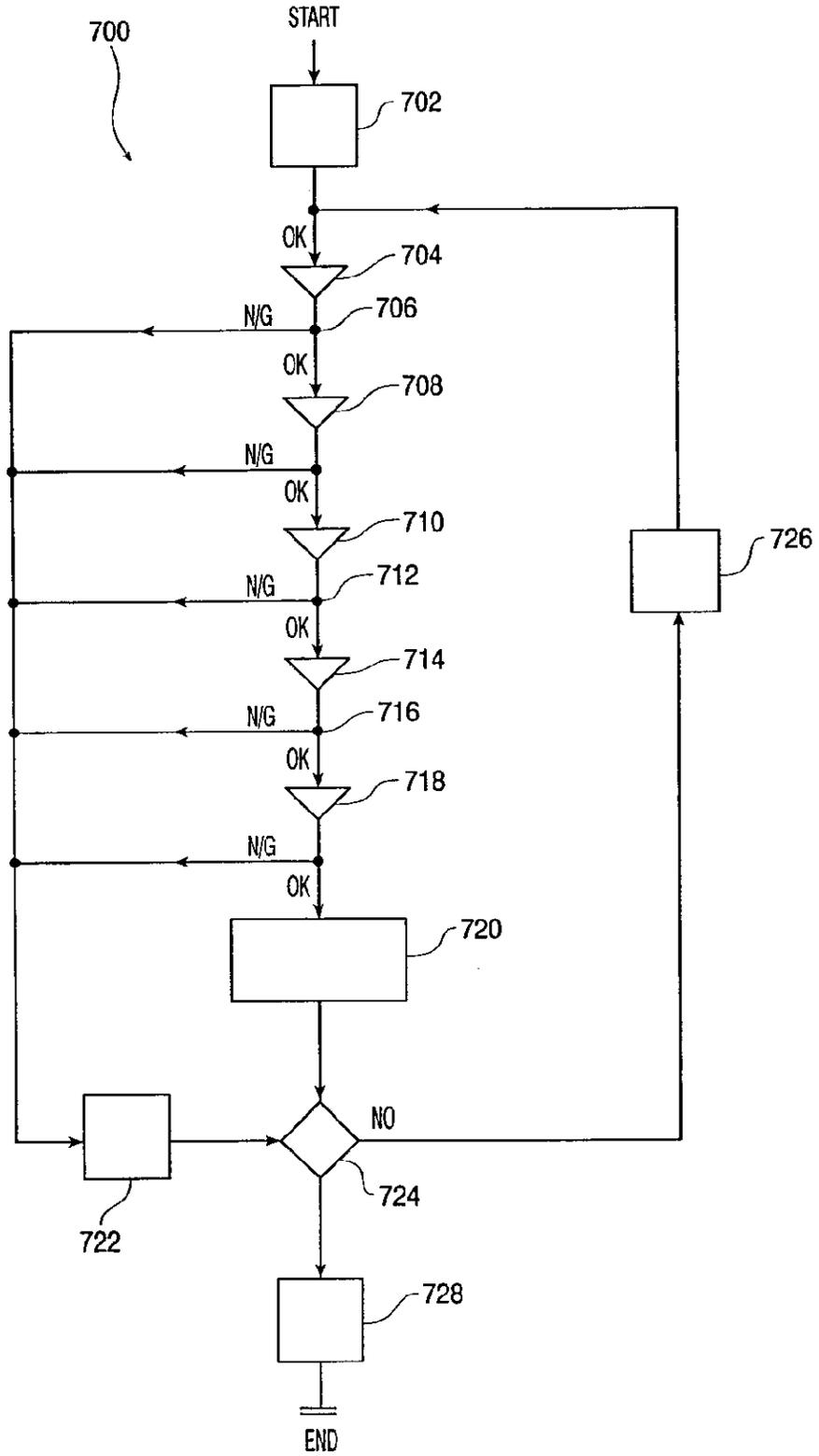


FIG. 7

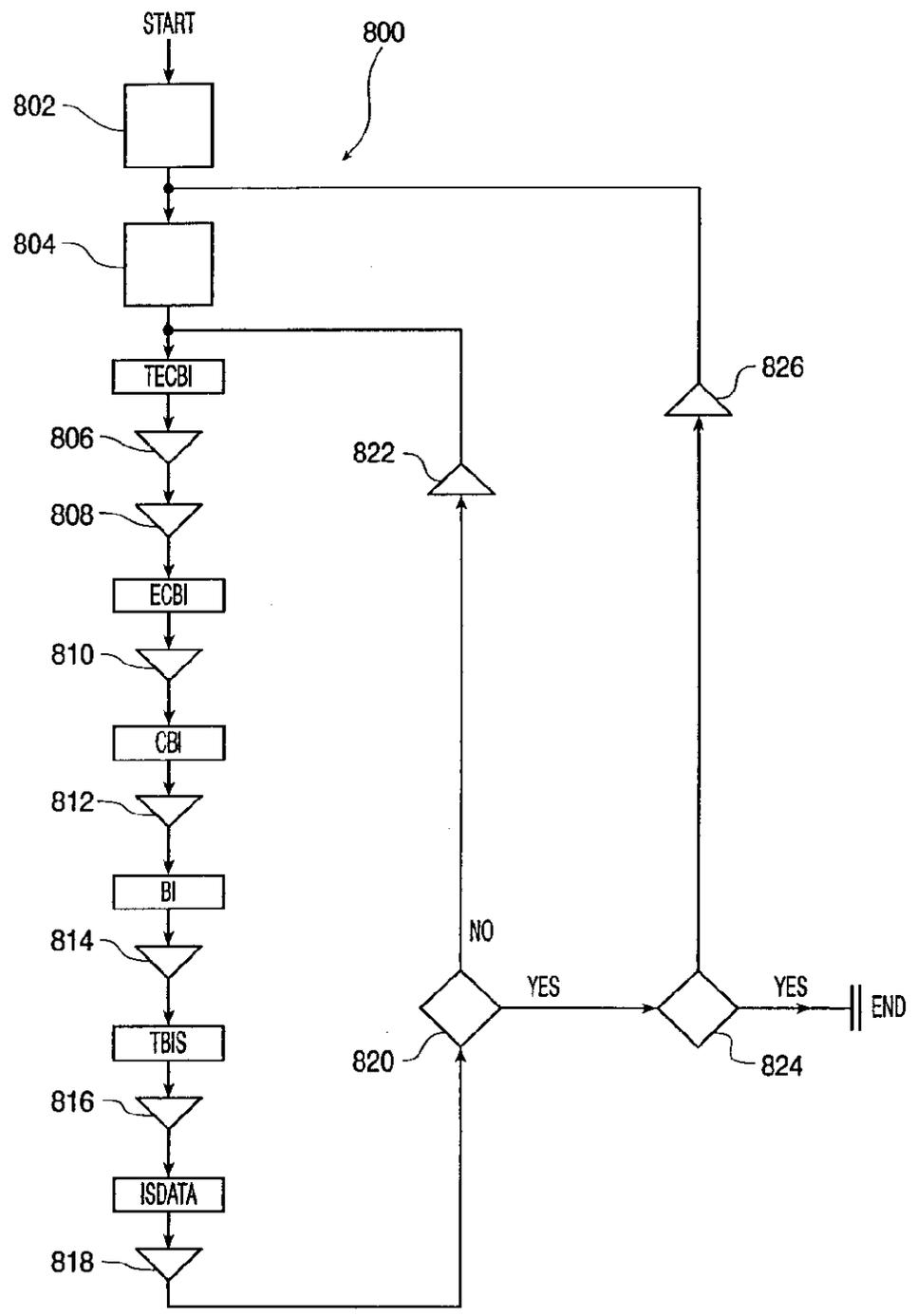


FIG. 8

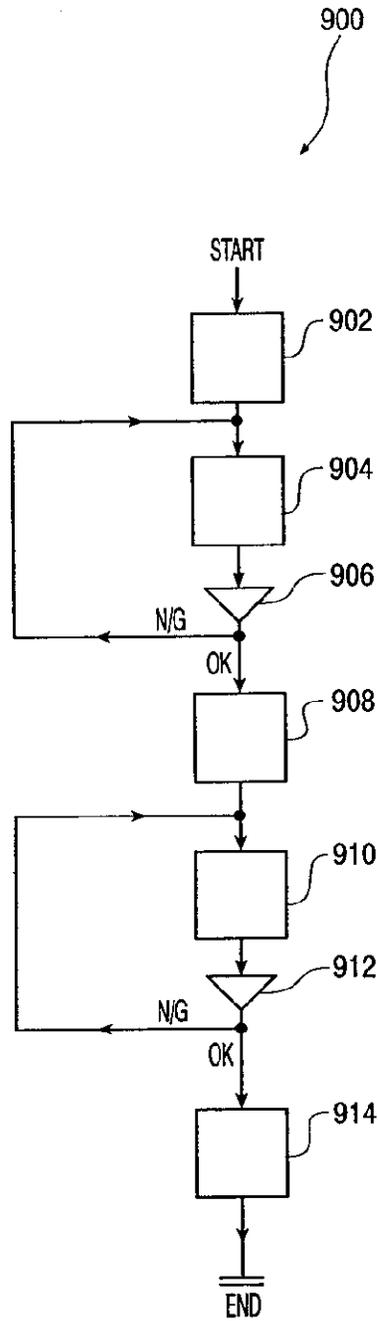


FIG. 9

O.G. FIG.
CLASS. SUBCLASS

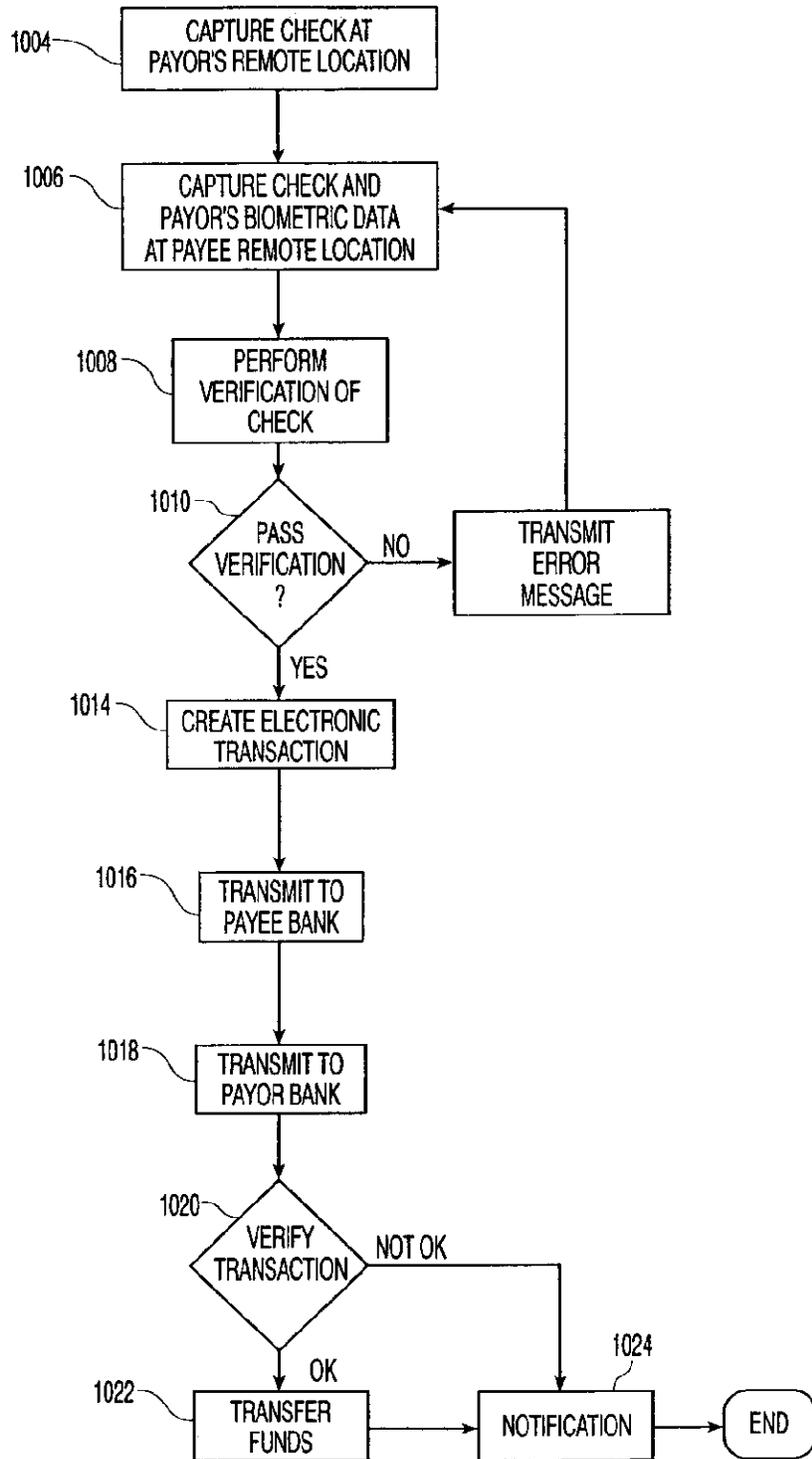


FIG. 10

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JB  
6/29/98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

C. BALLARD

Application No.: 09/081,013



Group Art Unit: 3642

Filed: May 19, 1998

Examiner:

For: REMOTE IMAGE CAPTURE WITH  
CENTRALIZED PROCESSING AND  
STORAGE

Attorney Docket No.:  
2269-007

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to applicants' duty of disclosure under 37 C.F.R. 1.56, enclosed is Form PTO-1449 which lists 22 references which were cited in the parent Application No. 08/917,761, filed August 27, 1997. Copies of the references listed on Form PTO-1449 are not enclosed as they should be available in the file of 08/917,761. Should the Examiner not be able to locate copies of the references, applicant will supply them upon request.

No fee is believed to be due for the submission of these references. Should any fees be required, however, please charge such fees to Pennie & Edmonds LLP Deposit Account No. 16-1150.

Respectfully submitted,

6/24/98  
Date

Allan A. Fanucci  
Allan A. Fanucci, Reg. No. 30,256

PENNIE & EDMONDS LLP  
1667 K Street, N.W.  
Washington, D.C. 20006

(202) 496-4400

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PEDC-126350.1

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IDS  
XV.  
9.14.98



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Claudio R. BALLARD

Application No.: 09/081,012

Group Art Unit: 2642 2766

Filed: May 19, 1998

Examiner:

For: REMOTE IMAGE CAPTURE WITH  
CENTRALIZED PROCESSING AND  
STORAGE

Attorney Docket No.:  
2269-007

199817 0-05500  
CLASSIFICATION

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to applicant's duty of disclosure under 37 C.F.R. 1.56, enclosed are copies of 50 references for the Examiner's review and consideration. The references are listed on the enclosed Form PTO-1449. It is respectfully requested that the references be made of record in this application by the Examiner's completion and return of Form PTO-1449.

No fee or certification is believed to be due for this submission since the references are being submitted prior to a first Office Action being issued in the case. Should any fees be required, however, please charge such fees to Pennie & Edmonds LLP Deposit Account No. 16-1150.

Respectfully submitted,

9/3/98  
Date

Allan A. Fanucci  
Allan A. Fanucci, Reg. No. 30,256

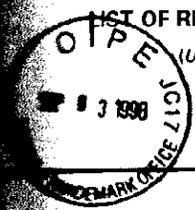
PENNIE & EDMONDS LLP  
1667 K Street, N.W.  
Washington, D.C. 20006

(202) 496-4400

PEDC-132351.1

DTC000337

D 067040



**LIST OF REFERENCES CITED BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO. 2269-007	APPLICATION NO. 09/081,012
APPLICANT Claudio R. BALLARD	
FILED DATE May 19, 1998	GROUP <del>3642</del> 2746

**U.S. PATENT DOCUMENTS**

*Part of Page #3*

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,201,978	05/1980	Nally	340	146.3	
AB	4,264,808	04/1981	Owens et al.	235	379	
AC	4,326,258	04/1982	de la Guardia	364	515	
AD	4,417,136	11/1983	Rushby et al.	235	379	
AE	4,457,015	06/1984	Nally et al.	382	45	
AF	4,523,330	06/1985	Cain	382	7	
AG	4,555,617	11/1985	Brooks et al.	235	379	
AH	4,680,803	07/1987	Dilella	382	9	
AI	4,747,058	05/1988	Ho	364	478	
<del>AJ</del>	<del>4,750,201</del>	<del>06/1988</del>	<del>Hodgson et al.</del>	<del>399</del>	<del>144</del>	
<del>AK</del>	<del>4,843,220</del>	<del>06/1989</del>	<del>Haun</del>	<del>235</del>	<del>380</del>	
AL	4,888,812	12/1989	Dinan et al.	382	7	
<del>AM</del>	<del>4,926,325</del>	<del>05/1990</del>	<del>Benton et al.</del>	<del>364</del>	<del>408</del>	
<del>AN</del>	<del>4,960,881</del>	<del>10/1990</del>	<del>Benton et al.</del>	<del>235</del>	<del>379</del>	
AO	5,091,968	02/1992	Higgins et al.	382	30	
<del>AP</del>	<del>5,122,950</del>	<del>06/1992</del>	<del>Benton et al.</del>	<del>364</del>	<del>408</del>	
<del>AQ</del>	<del>5,144,115</del>	<del>09/1992</del>	<del>Yoshida</del>	<del>235</del>	<del>379</del>	
AR	5,159,548	10/1992	Caslavka	364	408	
<del>AS</del>	<del>5,173,534</del>	<del>12/1992</del>	<del>McClure</del>	<del>235</del>	<del>380</del>	
AT	5,175,682	12/1992	Higashiyama et al.	364	408	
AU	5,187,750	02/1993	Behera	382	7	
AV	5,204,811	04/1993	Bednar et al.	364	406	
<del>AW</del>	<del>5,220,501</del>	<del>08/1993</del>	<del>Lawlor et al.</del>	<del>364</del>	<del>408</del>	
AX	5,237,158	08/1993	Kern et al.	235	379	
AY	5,274,567	12/1993	Kallin et al.	364	478	
<del>AZ</del>	<del>5,283,829</del>	<del>02/1994</del>	<del>Anderson</del>	<del>380</del>	<del>24</del>	

BA	5,321,238	06/1994	Kamata et al.	235	379
BB	<del>5,321,751</del>	<del>06/1994</del>	<del>Ray et al. Duplicate</del>	<del>380</del>	<del>23</del>
BC	5,345,090	09/1994	Hludzinski	250	566
BD	<del>5,434,928</del>	<del>07/1995</del>	<del>Wagner et al. Duplicate</del>	<del>382</del>	<del>187</del>
BE	<del>5,436,970</del>	<del>07/1995</del>	<del>Ray et al. Duplicate</del>	<del>380</del>	<del>23</del>
BF	5,444,794	08/1995	Uhland, Sr.	382	137
BG	<del>5,457,747</del>	<del>10/1995</del>	<del>Drexler et al. Duplicate</del>	<del>380</del>	<del>24</del>
BH	<del>5,479,510</del>	<del>12/1995</del>	<del>Olsen et al. Duplicate</del>	<del>380</del>	<del>24</del>
BI	5,506,691	04/1996	Bednar et al.	358	402
BJ	5,544,043	08/1996	Miki et al.	364	406
BK	<del>5,590,038</del>	<del>12/1996</del>	<del>Pitroda Duplicate</del>	<del>386</del>	<del>241</del>
BL	5,602,933	02/1997	Blackwell et al.	382	116
BM	<del>5,602,936</del>	<del>02/1997</del>	<del>Green et al. Duplicate</del>	<del>382</del>	<del>140</del>
BN	<del>5,604,640</del>	<del>02/1997</del>	<del>Zipt et al. Duplicate</del>	<del>359</del>	<del>803</del>
BO	<del>5,613,001</del>	<del>03/1997</del>	<del>Bakhoum Duplicate</del>	<del>380</del>	<del>4</del>
BP	<del>5,647,017</del>	<del>07/1997</del>	<del>Smithies et al. Duplicate</del>	<del>382</del>	<del>119</del>
BQ	<del>5,657,388</del>	<del>08/1997</del>	<del>Houvenor Duplicate</del>	<del>380</del>	<del>23</del>
BR	<del>5,657,398</del>	<del>08/1997</del>	<del>Rudolph et al. Duplicate</del>	<del>382</del>	<del>190</del>
BS	5,673,333	09/1997	Johnston	382	137
BT	5,751,842	05/1998	Riach et al.	382	137
BU	5,754,673	05/1998	Brooks et al.	382	112
BV	5,781,654	07/1998	Carney	382	137
BW	5,784,503	07/1998	Blecker, III et al.	382	306
BX	5,787,403	07/1998	Randle	705	43

S. Congiadosi

DATE CONSIDERED

6/99

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not considered. Include copy of this form with next communication to applicant.