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(54) Title: METHOD AND SOFTWARE APPLICATION AND SYSTEM FOR AUTOMATED BILL PROCESSING

(57) Abstract:



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Method and Software Application and System for
Automated Bill Processing

Background of the Invention

Field of the Invention.

5 The technical field of this invention is in the area of
electronic data processing. More particularly, the
invention relates to methods, computer program products
and systems for automated bill presentment and, still
more particularly, for internet based bill presentment
10 and payment.

Description of the Related Art

If a customer pays two or more bills of a biller by
means of a self initiated payment method using a
payment order, which can be implemented by a paper
15 based payment carrier like cheque, bank transfer, or
electronically by bank transfer by online- or internet
banking in one amount, the biller has the problem to
identify on the incoming payment, which partial amount
of the total amount belongs to which bill. In such
20 cases, particularly if a plurality of bills shall be
paid with a single payment, it is common practice for
customers to send a so called advice of settlement to
the biller parallel to the payment. The advice of
settlement comprises a detailed list of the bills to be
25 paid including the respective (partial-) amounts. Such
advice of settlement can have a volume of a few hundred
pages in cases of business relationships, in which a
large company is on the customer side. The advice of
settlement is sent as a hard copy to the biller and the

customer references to the particular advice of settlement on the payment order.

This procedure has several disadvantages: The customer has to create the advice of settlement, either
5 electronically (by means of his business software) or by hand, he has to send it to the biller, either by normal mail or by email, thereby addressing it to the correct address and the responsible person, what is often very difficult, and he has to ensure that the
10 advice of settlement reaches the biller at about the same time as the payment. The biller on the other side has to process the incoming advice of settlement. This means that he has to enter the data into his business software system. Thereby the data have to be entered
15 before the payment is made, in order to allow an automatic processing of the incoming payment. In case the customer does not send any advice of settlement - or it arrives far too late - the biller has the problem to assign the correct bills to the amount or partial
20 amounts. This causes complex queries to the customer.

An other point is that in modern business software payments, which cannot exactly assigned to specific bills, are often automatically distributed to open items. This causes often erroneous bookings with
25 subsequent cancellation bookings, which both waste storage of the computer system and strains the performance.

Thus, there is a need for a method, software application and/or data processing system providing a
30 more efficient solution of at least parts of the problems described above, particularly it is desirable to provide a software application having a mechanism

for enabling a better processing of bills or payments in combination with the mentioned advice of settlement.

The above description is based on the knowledge of the present inventors and not necessarily that known in the art.

Summary of the Invention

In accordance with the invention, as embodied and broadly described herein, methods and systems consistent with the principles in this specification provide a method for processing one or more bills of a biller, comprising:

- presenting a request to pay one or more of a set of one or more bills in total or in part on a site of a computer network,
- receiving a selection of the one or more bills from a customer, said selection responding to said request via said site,
- generating an electronic advice of settlement of the selected bills comprising an ID,
- presenting the electronic advice of settlement and/or the ID to the customer or to a payment service provider.

25

An other aspect of an implementation of the above method, is to provide a computer system for processing one or more bills of a biller, comprising:

- memory having program instructions;
- input means for receiving and entering data;
- output means for sending and presenting data
- storage means for storing data;
- a processor responsive to the program instructions

to:

- presenting a request to pay one or more of a set of one or more bills in total or in part on a site of a computer network,
- 5 - receiving a selection of the one or more bills from a customer, said selection responding to said request via said site,
- generating an electronic advice of settlement of the selected bills comprising an ID,
- 10 - presenting the electronic advice of settlement and/or the ID to the customer or to a payment service provider.

Applying the method, e.g. by using the system, is
15 insofar advantageous as on the biller side a lot of work regarding the assignment of incoming payments to the underlying bills is avoided and - at the same time - the biller's computer system computer system can run more efficiently, due to a lesser waste of storage
20 space and a better process time. On the customer side, the generation of advice of settlement is no longer necessary, thus saving work load and time of the customer and its computer system as well.

25 Embodiments of the invention are further directed to a computer system, a computer program, a computer readable medium and a carrier signal, each comprising program code or instructions for processing one or more bills of a biller according to the above method and its
30 embodiments. Such instructions cause a computer system to perform the cited method, if the instructions are carried out on the computer system.

Such computer program can be installed as one or more
35 programs or program modules on different hardware

systems (computers or computer systems), and run separately and independently of each other, in their entirety being capable of performing the inventive method and its embodiments. The different systems may
5 be connected in the form of a network to communicate with each other.

Additional objects and advantages of the various embodiments of the invention will be set forth in part
10 in the description, or may be learned by practice of the invention. The objects and advantages of the embodiments of the invention will be realized and attained by means of the elements and combinations particularly pointed out in the appended claims.
15 Embodiments of the invention are disclosed in the detailed description section and in the dependent claims.

The various embodiments can include and/or exclude different aspects, features and/or advantages, where
20 applicable. In addition, various embodiments can combine one or more aspects or features of other embodiments, where applicable.

It is understood that both, the foregoing general
25 description and the following detailed description, are exemplary and explanatory only and are not restrictive of the embodiments of the invention, as claimed. The description of aspects, features and/or advantages of particular embodiments should not be construed as
30 limiting other embodiments or the claims.

Brief Description of the Drawings

The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate

embodiments of the invention and, together with the description, explain the principles of the invention. In the drawings,

5 Fig. 1a is a schematic block diagram of an implementation of the claimed method by means of a computer system,

Fig. 1b is an exemplary block diagram of a computer
10 system connectable to the computer system of fig. 1a,

Fig. 2 is flow diagram of the method according to the principles described in this specification.

15 Detailed Description

Computer system and program are closely related. As used hereinafter, phrases, such as "the computer provides" and "the program provides or performs specific actions", "a user performs a specific action"
20 are convenient abbreviation to express actions by a computer system that is controlled by a program or to express that the program or program module is designed to enable the computer system to perform the specific action or the enable a user to perform the specific
25 action by means of a computer system.

It should be understood that the term "presentment" as used herein does not only include the specialized definition normally associated with commercial paper,
30 i.e. the production on a negotiable instrument to a drawee. Rather, the term refers to providing information via electronic means as well. This electronic presentment may preferably but not limiting

take place through the use of an internet- or intranet website or via email or SMS, e.g. by making a web site accessible to one or more persons.

- 5 Within the concept of this specification, the terms used shall have their usual meaning in the context of the field of data processing unless defined otherwise. Particularly, a computer system can be a stand alone computer such as a PC or a laptop or a series of
10 computers connected as a network, e.g. a network within a company, or a series of computers connected via the internet.

The method as described in the summary section can be
15 implemented by a computer system connected to the internet, thus forming part of a network. Said computer system may comprise one or more program modules for performing the steps described. The presentment of the list of bills by the biller can be implemented by an
20 internet web site. This web site can be accessed by a customer, e.g. after an authentication procedure. The internet web site can be implemented as is known in the art, in the form of a XML- or HTML file, in which the relevant bill data are included. A link to that file,
25 preferably a hyperlink, can be generated and presented to the customer. The customer, connected to an intranet or to the internet can apply the link, open the web site by means of a web browser, which may be incorporated in his business software and which
30 presents the content of the file on the display. The customer can then select one or more bills, e.g. by checking of check boxes presented to him by the web browser. When applying a "send" function or button, presented by the web browser, the web browser sends the
35 data, i.e. the information, which bills are selected

back to the computer system of the biller, who receives a selection of the one or more bills. The computer system of the biller then automatically generates an electronic advice of settlement, in which data of the
5 selected bills are included. Typically, bill number, amount, bill subject, bill date and the like can be used. These data can be taken from a business data base of the biller. Further, an identifier (ID) is created and assigned to the electronic advice of settlement.
10 This ID can be marked as such, in order to allow its automatic import into the business or payment software of the customer. Such electronic advice of settlement can be implemented e.g. as an XML- HTML file as well. Analogous, a link or hyperlink to that electronic
15 advice of settlement can be created and presented to the customer. The ID can be incorporated into the advice of settlement and/or into web page and/or into a subsequent web page.
Alternatively, the customer thus can download the
20 electronic advice of settlement, automatically import the ID into his payment system and transfer a payment carrier comprising the ID to his payment service provider. Alternatively, the ID can be included in a separate file. However, the further process of down
25 loading and accessing is analogous.
Alternatively to presenting the ID to the customer, the ID can be presented directly to a payment service provider, which can be selected by the customer via a list or which can be one preselected in the computer
30 system on agreement with the customer. Pre-requisite is that the selected payment service provider is authorized by the customer to conduct payments on his behalf. This is typically the case, if the payment service provider is the customer's house bank. The
35 customer does in this scenario not even need to know of

the existence of the advice of settlement and the ID.
The biller's computer system transfers customer data
(address, account no. ...), payment data (currency,
amount ...) biller data (bank, account no. ...) and the ID
5 to the selected payment service provider.

In order to present the ID to a customer or to a
payment service provider, the ID can e.g. be
incorporated into the use section of a payment order,
e.g. manually on a paper form, or electronically on an
10 online- or internet banking form. The incorporation
into the electronic form can be performed manually or
automatically by a software application.

A first embodiment of this method is characterized by
15 said site having editable data fields. This can be
implemented by a web page, which provides editable data
fields to a user. The editable data fields can be
coupled with tables from which predefinable values for
the respective data field can be selected and entered
20 into the respective data field. The user, e.g. a
customer, can enter comments into the fields or can
specify partial amount he wants to pay or can correct
erroneous data of the bills presented.

25 A second embodiment of the method is characterized in
that the method further comprises generating the advice
of settlement on the basis of the selected and amended
bills.

This step is, e.g., accomplished when a user decides to
30 pay only a partial amount of a selected bill. The
computer system of the biller then uses the amount sent
to it by the customer's system and includes it into the
electronic advice of settlement.

A third embodiment comprises receiving a payment, referenced by an ID of an electronic advice of settlement.

5 A fourth embodiment comprises presenting one or more payment service providers for selection by the customer. After having selected the bills, the customer can chose from a table a payment service provider, e.g. a bank of which he is a customer, he wants to use for
10 the payment of the selected bills. The computer system of the biller then creates from the selected bills a set of payment data, the advice of settlement and its ID and sends the payment data, the ID together with biller and customer data to the payment service
15 provider selected by the customer for further processing. The payment service provider processes the payment to the bank of the biller, from which the payment information including the ID is sent to the business software system of the biller, which then can
20 automatically assign the paid amount to the respective bills by the ID and the associated advice of settlement generated before.

25 Processors suitable for the execution of a computer program include, by way of example, both general and special purpose microprocessors, and any one or more processors of any kind of digital computer. Generally, a processor will receive instructions and data from a
30 read-only memory or a random access memory or both. The essential elements of a computer are a processor for executing instructions and one or more memory devices for storing instructions and data. Generally, a computer will also include, or be operatively coupled
35 to receive data from or transfer data to, or both, one

or more mass storage devices (storage means) for storing data, e.g., magnetic, magneto-optical disks, or optical disks. Information carriers suitable for embodying computer program instructions and data

5 include all forms of non-volatile memory, including by way of example semiconductor memory devices, such as EPROM, EEPROM, and flash memory devices; magnetic disks such as internal hard disks and removable disks; magneto-optical disks; and CD-ROM and DVD-ROM disks.

10 The processor and the memory can be supplemented by, or incorporated in, ASICs (application-specific integrated circuits).

To provide for interaction with a user, the invention

15 can be implemented on a computer system having a display device such as a CRT (cathode ray tube) or LCD (liquid crystal display) monitor for displaying information to the user and a keyboard and a pointing device such as a mouse or a trackball by which the user

20 can provide input to the computer. Other kinds of devices can be used to provide for interaction with a user as well; for example, feedback provided to the user can be any form of sensory feedback, such as visual feedback, auditory feedback, or haptic feedback;

25 and input from the user can be received in any form, including acoustic, speech, or haptic input.

Reference will now be made in detail to the principles of the invention and its embodiments by an explanation

30 on the basis of a data processing process, examples of which are illustrated in the accompanying drawings. Examples, mentioned therein, are for explanatory purpose only and shall not to limit the invention in any kind.

35

Fig. 1a shows one example of an implementation of an embodiment of the invention: A computer system with program modules for performing the method and its embodiments described in this specification. Fig. 1a shows a computer system 101 comprising a computer 102 having a CPU 105, a working storage 112 (memory), in which an operating system, data and software applications are stored for being processed by CPU 105. Said software applications comprise a business software application 111 for performing the method described. Software application 111 can comprise one or more program modules for performing specific tasks. Computer System 101 further comprises input means 103, output means 112 for interaction with a user, e.g. for starting the program modules and/or for data input, and general input/output means 104, including a net connection 113, for sending and receiving data, e.g. data on billing information, bills, payment orders, customer and biller master data, etc. via an intranet or the internet. A plurality of computer systems 101 can be connected via the net connection 113 in the form of a network. In such a case, each of the modules of the business software 111 can be installed and run separately and independently on the respective network computers. In this case the network computers 113 can be used as further input/output means, including the use as further storage locations. Net connection 113 further allows a connection with a computer system 114 of a customer. Computer system 101 further comprises a first storage means 107, in which business and billing data of the customer(s) are stored.

Fig. 1b shows schematically a computer system 115 of a customer for interaction with the computer system 101 of the biller. Similarly, computer system 115 comprises

computer 116, CPU 121, Memory 120, input 117 and output 118 for interaction with a user, mass storage 119, general input/output for data exchange, including net connection 123.

5

Fig. 2 shows a flow diagram of the process described in the following sections with reference to the three figures.

10 After starting in a step 201, a structured document 109 containing a list of open bills and relevant billing data like bill no, subject, amount, date etc. is created by business application 111. The structured document 109 can be for example a XML- or HTML file. It
15 further comprises information to enable a web browser to display the bill data and selecting means on a screen. Further, a HTTP link 110a, pointing to the document 109 is created. In order to present the list of open bills to a customer, the link 110a, 208 is sent
20 to the customer in step 202. The customer receives and applies the link by means of computer system 115 and web browser 124. Web browser 124 accesses via the net connection 123 the document 109 and displays its content, particularly the list of bills, as a web page
25 125 on the monitor 118. The customer can select one or more bills by checking the presented check boxes in the "pay" column of the page 125. In the example, the customer intends to pay bills no 2 and 3. After applying a "send" function (not shown), the browser 124
30 sends the modified bill data (selected bills) 209 back to the computer system 101. System 101 receives the selection 209 from the customer 203 and creates a advice of settlement 106 and an ID there from in step 204. The advice of settlement can have the form of an
35 XML- or HTML file as well. It contains an ID, "1234" in

the example, and billing data of the selected bills. The ID is incorporated into the document 109, and e.g. upon the refresh function of the web browser 124 is displayed on the monitor 118. An other possibility is to incorporate the ID into a subsequent web page (210) and thus present it to the customer (205). The customer can then transfer the ID manually into his payment carriers. Alternatively, the ID can be stored in a separate structured document. Further, a link 110b can be created, which points to the advice of settlement 106 or the document of the ID. In order to present the advice of settlement and/or the ID to the customer, the link 110b, is sent to the customer. The ID is then presented to the customer through the application of the link by the customer via web browser 124, the web browser accesses the corresponding file 210 and display the ID on the monitor. The ID can then automatically or manually be entered into a payment order as a reference to the advice of settlement. Payment order can be implemented by a paper based payment carrier or an electronic payment form. The payment order is sent to a payment service provider for further processing. Accordingly, the biller receives in step 206 the payment via his banking institute, whereby a payment notice 211 contains the ID, which references to the advice of settlement generated before.

Modifications and adaptations of the present invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed herein. The foregoing description of an implementation of the invention has been presented for purposes of illustration and description. It is not exhaustive and does not limit the invention to the precise form disclosed. Modifications and

variations are possible in light of the above teachings or may be acquired from the practicing of the invention. For example, the described implementation includes software, but systems and methods consistent
5 with the present invention may be implemented as a combination of hardware and software or in hardware alone. Additionally, although aspects of the present invention are described for being stored in memory, one skilled in the art will appreciate that these aspects
10 can also be stored on other types of computer-readable media, such as secondary storage devices, for example, hard disks, floppy disks, or CD-ROM; the Internet or other propagation medium; or other forms of RAM or ROM. It is intended that the specification and examples be
15 considered as exemplary only, with a true scope and spirit of the invention being indicated by the following claims.

Computer programs based on the written description and
20 flow charts of this invention are within the skill of an experienced developer. The various programs or program modules can be created using any of the techniques known to one skilled in the art or can be designed in connection with existing software. For
25 example, programs or program modules can be designed in or by means of Java, C++, HTML, XML, or HTML with included Java applets or in SAP R/3 or ABAP. One or more of such modules can be integrated in existing e-mail or browser software.

30 While illustrative embodiments of the invention have been described herein, the present invention is not limited to the various preferred embodiments described herein, but includes any and all embodiments having

equivalent elements, modifications, omissions, combinations (e.g., of aspects across various embodiments), adaptations and/or alterations as would be appreciated by those in the art based on the present disclosure. The limitations in the claims are to be interpreted broadly based on the language employed in the claims and not limited to examples described in the present specification or during the prosecution of the application, which examples are to be construed as non-exclusive. For example, in the present disclosure, the term "preferably" is non-exclusive and means "preferably, but not limited to." Means-plus-function or step-plus-function limitations will only be employed where for a specific claim limitation all of the following conditions are present in that limitation: a) "means for" or "step for" is expressly recited; b) a corresponding function is expressly recited; and c) structure, material or acts that support that structure are not recited.

20

What is claimed is:

1. A method for processing one or more bills of a biller, comprising:
 - presenting a request to pay one or more of a set
 - 5 of one or more bills in total or in part on a site of a computer network,
 - receiving a selection of the one or more bills from a customer, said selection responding to said request via said site,
 - 10 - generating an electronic advice of settlement of the selected bills comprising an ID,
 - presenting the electronic advice of settlement and/or the ID to the customer or to a payment service provider.
- 15 2. The method of claim 1, further comprising: said site having editable data fields.
3. The method of claim 1 or 2, further comprising: generating the advice of settlement on the basis of the selected and amended bills.
- 20 4. The method of one or more of claims 1 to 3, further comprising:
 - receiving a payment, referenced by an ID of an electronic advice of settlement.
5. The method of one or more of claims 1 to 4, further
- 25 comprising:
 - presenting one or more payment service providers for selection by the customer.
6. A computer system for processing one or more bills of a biller, comprising:
 - 30 - memory having program instructions;
 - input means for receiving and entering data;

- output means for sending and presenting data
 - storage means for storing data;
 - a processor responsive to the program instructions to;
- 5 - said program instructions comprising program code means for performing a method as of any of claims 1 to 5.
7. A computer readable medium comprising program instructions for processing one or more bills of a
- 10 biller, said program instructions being suitable to perform a method as of any of claims 1 to 5 if said program instructions are executed on a computer system.
8. A computer program product comprising a computer
- 15 readable medium of claim 7.
9. A computer program comprising program instructions for processing one or more bills of a biller, said program instructions being suitable to perform a method as of any of claims 1 to 5 if said program
- 20 is executed on a computer system.

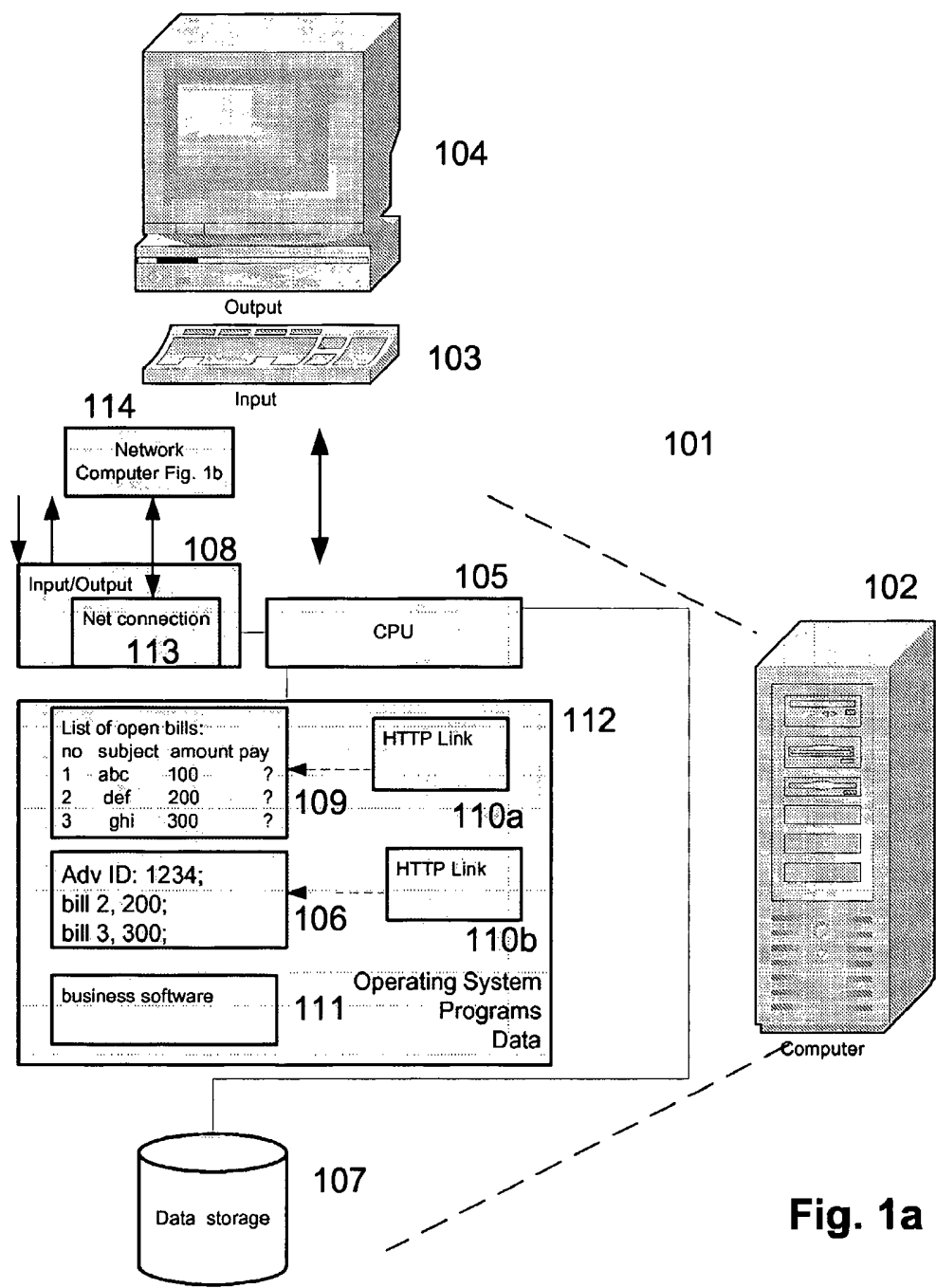


Fig. 1a

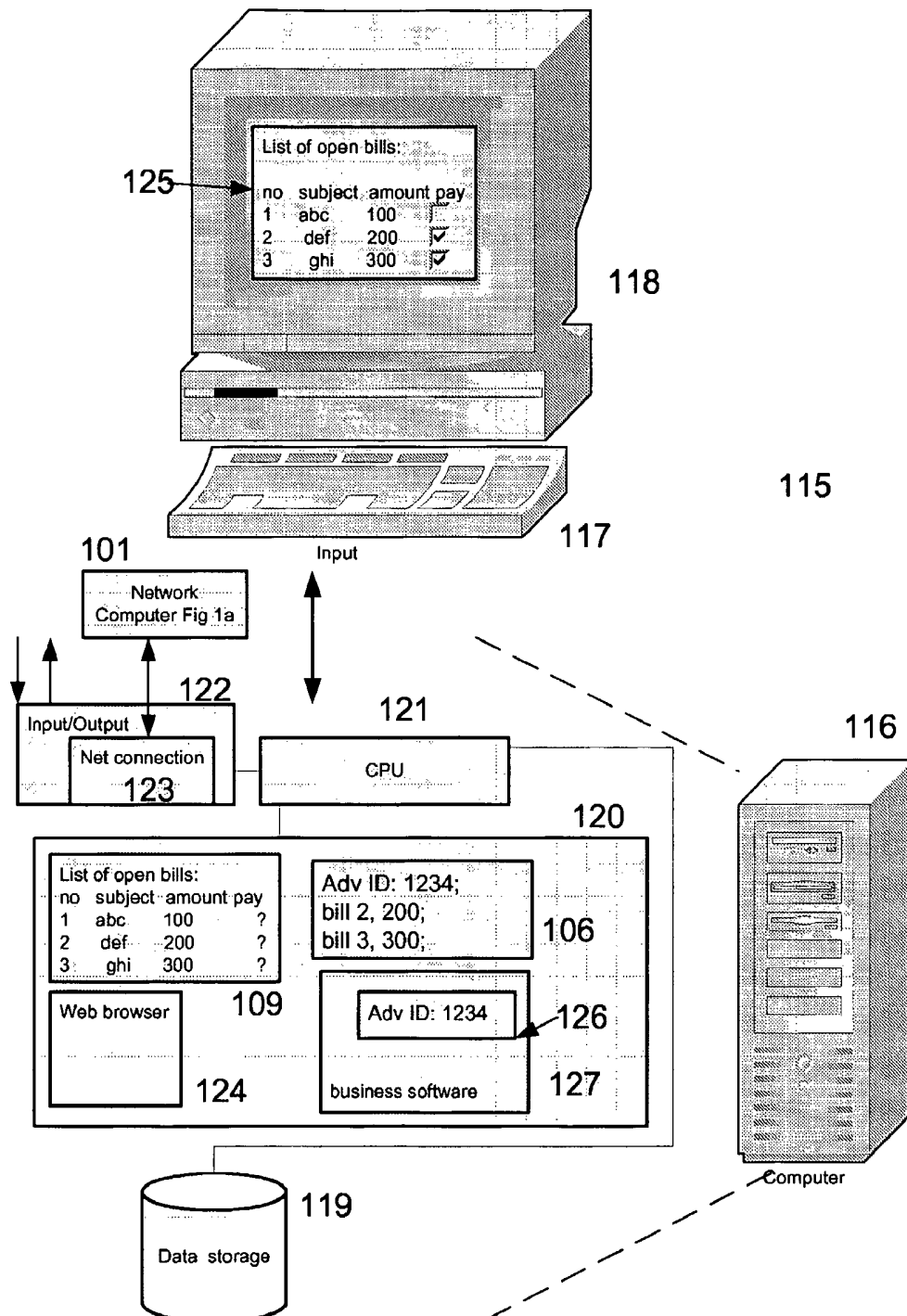
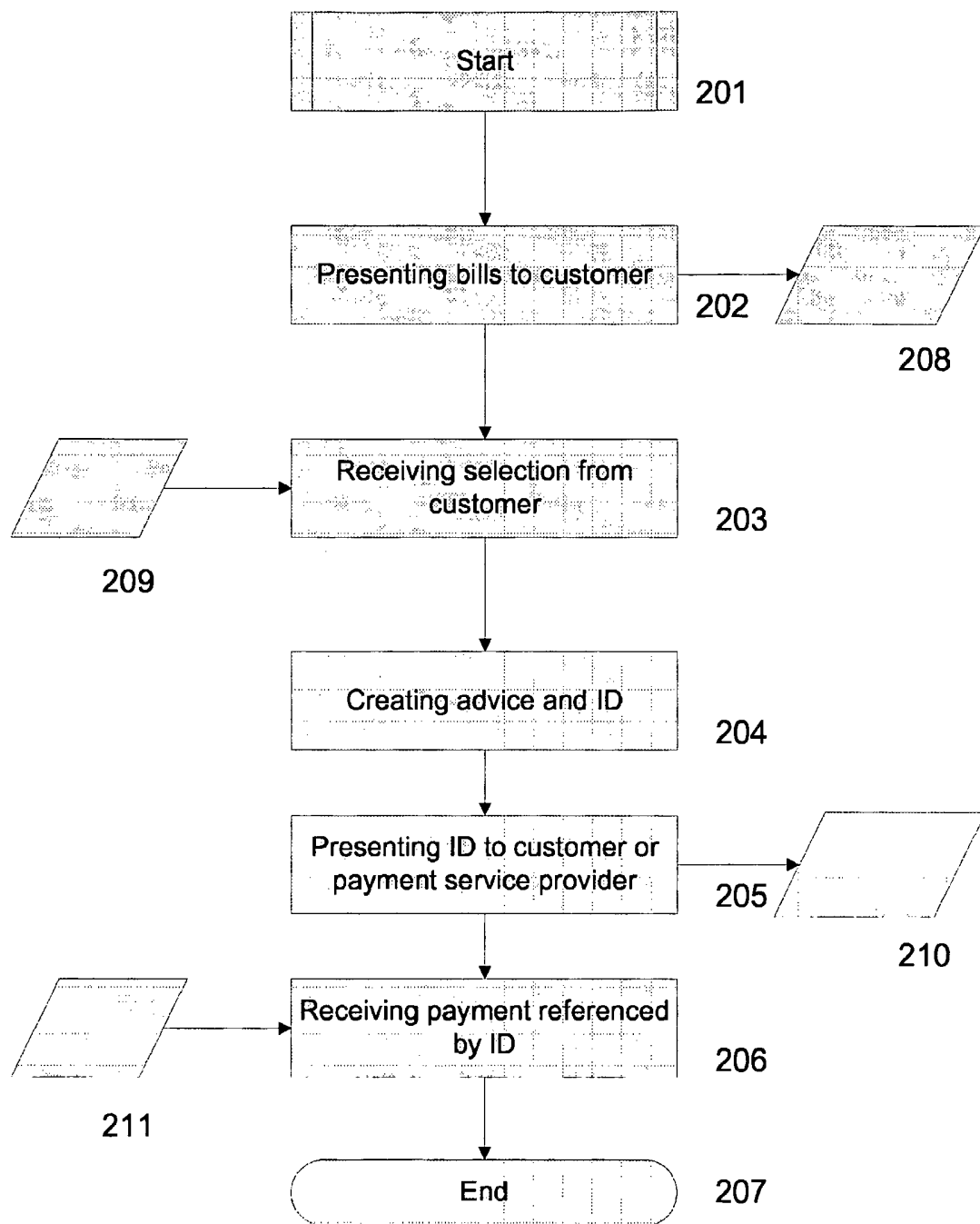


Fig. 1b

**Fig. 2**

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter.1(c) and Rule 39)

Applicant's or agent's file reference 2003P00443WO	IMPORTANT DECLARATION	Date of mailing(day/month/year) 03/11/2004
International application No. PCT/EP2004/051536	International filing date(day/month/year) 19/07/2004	(Earliest) Priority date(day/month/year) 21/07/2003
International Patent Classification (IPC) or both national classification and IPC G07F19/00		
Applicant SAP AKTIENGESELLSCHAFT		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established** on the international application for the reasons indicated below

1. ☒ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☒ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☐ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
 ☐ the claims
 ☐ the drawings
3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.
4. ☐ The failure of the tables related to the nucleotide and/or amino acid sequence listing to comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished.

☐ the computer readable form has not been furnished or does not comply with the technical requirements.
5. Further comments:

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Olga Benitez
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 203

The claims relate to subject matter excluded from patentability under Art. 52(2) and (3) EPC. Given that the claims are formulated in terms of such subject matter or merely specify commonplace features relating to its technological implementation, the search examiner could not establish any technical problem which might potentially have required an inventive step to overcome. Hence it was not possible to carry out a meaningful search into the state of the art (Rule 45 EPC). See also Guidelines Part B Chapter VIII, 1-6.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.