

TITLE OF THE INVENTION

APPARATUS FOR AUTOMATICALLY APPLYING AND PREPARING
SOFTWARE, AND RECORDING MEDIUM FOR PREPARING SOFTWARE

BACKGROUND OF THE INVENTION

5 The present invention relates to an apparatus and
software recording medium which can detect the meaning
of input data when a businessman simply enters data
without being aware of the conventionally practiced
description of a program language (e.g., COBOL and
10 FORTRAN) in accordance with a flow chart in preparing
software and, more particularly, to an apparatus for
automatically applying and preparing software and a
recording medium for preparing software, capable of
automatically selecting and applying software for
15 processing the input data in accordance with the
meaning of the input data upon detecting the meaning of
the input data.

 To conventionally create software, a routine for
applying this software is designed in a flow chart, the
20 program language is described in accordance with the
flow chart, and the program language is then encoded
into the machine language.

 According to this method, however, the program
language must be checked as a whole and corrected when
25 the programmer wants to change setting conditions and
dates in software data processing. Therefore, it takes
time to change the design of the program, or jobs by

specialists are required.

Even a simple change in processing contents and conditions of the conventional program becomes expensive, takes time, and requires the jobs of specialists.

BRIEF SUMMARY OF THE INVENTION

It is, therefore, an object of the present invention to provide an apparatus for automatically applying and preparing software and a recording medium for preparing software, capable of automatically applying and preparing data processing software by detecting the meaning and contents of a data input when the user simply inputs the data without being aware of the description of a program language (e.g., COBOL or FORTRAN).

In order to achieve the above object according to the present invention, there is provided an apparatus for applying and preparing software, comprising a file storing various kinds of business worksheets each including at least one business logic term representing a minimum unit in a business operation, rule setting means for displaying a given one of the business worksheets which corresponds to user selection information on a display to indicate a data input position of the given business worksheet together with a corresponding business logic term, a business data file for, when data is input to the data input position,

storing the input data as business rule setting data,
using means for inputting application data correspond-
ing to the business logic term stored in the business
data file, and business logic applying means for, when
5 the application data is input, determining software to
be used in correspondence with the business logic term
corresponding to the application data, performing
arithmetic processing by the determined software using
the application data and the business rule setting data
10 corresponding to the application data, and obtaining an
arithmetic processing result.

According to the above means, in designing a
program, rule setting data is input to a data input
position accompanying to a business logic term on a
15 business worksheet. The rule setting data is made to
correspond to software for processing this rule setting
data as reference data, on the basis of the meaning of
the business logic term. This operation is a rule
setting data input job for pursuing business operation
20 rather than program design operation.

When application data corresponding to the above
rule setting data is input in use of the apparatus, the
application program is automatically selected and
executed, thereby obtaining the processing result
25 represented by the business term.

According to the present invention, there is
provided a recording medium for applying and preparing

software, comprising a worksheet file section storing various kinds of business worksheets each including at least one business logic term representing the minimum unit in a business operation, rule setting software for
5 displaying a given one of the business worksheets which corresponds to user selection information on a display to indicate a data input position of the given business worksheet together with a corresponding business logic term, a business data file section for, when data is
10 input to the data input position, storing the input data as business rule setting data, first use software for inputting application data corresponding to the rule setting data stored in the business data file section, and second use software for, when the
15 application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data
20 corresponding to the application data, and obtaining an arithmetic processing result.

In designing a program, the above recording medium is operated on the computer to allow the user to input rule setting data in a data input position accompanying
25 to the business logic term on the business worksheet. The rule setting data is made to correspond to software for processing this rule setting data as reference data.

When application data corresponding to the above rule setting data is input in use of the computer, the application program is automatically selected and executed, thereby obtaining the processing result represented by the business term.

Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out hereinafter.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate presently preferred embodiments of the invention, and together with the general description given above and the detailed description of the preferred embodiments give below, serve to explain the principles of the invention.

FIG. 1 is a block diagram showing the basic concept of the present invention;

FIG. 2 is a block diagram showing the overall arrangement of an embodiment of the present invention;

FIGS. 3A and 3B are views showing windows in use of an apparatus of the present invention;

FIG. 4 is a view showing the table of a business

logic applying section;

FIG. 5 is a block diagram showing the detailed arrangement of the apparatus of the present invention;

FIGS. 6A to 6Z are tables of business logic
5 applying section or data file;

FIGS. 7A-1, 7A-2, 7B-1, 7B-2 and 7B-3 are tables of the business logic applying section or data file;

FIGS. 8A-1, 8A-2, 8B-1, 8B-2 and 8B-3 are tables of the business logic applying section or data file;

10 FIGS. 9A and 9B are tables of the business logic applying section or data file;

FIG. 10 is a flow chart of an operation routine when the apparatus of the present invention is used;

FIG. 11 is a flow chart of another operation
15 routine when the apparatus of the present invention is used;

FIG. 12 is a flow chart of still another operation routine when the apparatus of the present invention is used;

20 FIGS. 13A to 13C are block diagrams showing apparatuses according to other embodiments of the present invention;

FIG. 14 is a block diagram of another business data file of the apparatus of the present invention;

25 FIGS. 15A and 15B are views showing other display examples of the apparatus of the present invention;

FIGS. 16A and 16B are views showing window

examples in use of the apparatus of the present invention;

FIGS. 17A and 17B are views showing other window examples in use of the apparatus of the present invention;

FIGS. 18A and 18B are views showing still other window examples in use of the apparatus of the present invention;

FIGS. 19A and 19B are views showing still other window examples in use of the apparatus of the present invention; and

FIGS. 20A and 20B are views showing the still other window examples in use of the apparatus of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiments of the present invention will be described in detail with reference to the several views of the accompanying drawing.

FIG. 1 shows an embodiment of the present invention. Reference numeral 100 denotes a computer main body constituted by hardware and an operation system (OS). Reference numeral 500 denotes a display; and 1000, a new working apparatus of the present invention, which is constituted by a recording medium and its drive unit (to be described later), or an IC logic block.

FIG. 2 shows the details of the embodiment of the

present invention. The computer main body is constituted by hardware and the operation system (OS). A business logic applying section 200 is mounted in the computer main body 100. The business logic applying
5 section 200 is constituted by a business operation system (business OS) 201 and a business rule matching/check section 202.

The business operation system (business OS) is predetermined software such as presence check software,
10 upper limit check software, lower limit check software, and total amount processing software. These software programs are used as common software programs for various processing operations.

The business rule matching/check section 202
15 serves as a determination section for determining which software is used when business operation system software is used on the basis of the business logic terms of a business worksheet in data processing (to be described later).

20 The business worksheets, business logic terms, and rule setting data are stored in a business data file 400. The business data file 400 stores, as data, various types of worksheets such as a rule setting register, a slip, and a plan for rule setting required
25 in business operations, and a slip, a book and slip, an order slip, a settling slip used in distribution business. Each worksheet includes at least one

business logic term representing the minimum unit in a business operation.

5 A data input position is present in correspondence with the business logic term. In designing a program, when data is input to the data input position of a plan or a rule setting worksheet, this input data serves as rule setting data. Upon inputting the rule setting data, when data is input to a data input position of a worksheet such as a rule confirmation or estimate in
10 use of a computer in a business operation, this data serves as application data.

The display 500 displays a worksheet when a program is to be created or used upon creation of the program. The display 500 is used to confirm
15 the user data input or the program processing result. In preparing and using a program, an overall management section 600 operates in response to an input operation from the operation unit and accesses peripheral block data or starts the peripheral block. At the same time,
20 the overall management section 600 controls data input/output timings.

In response to the operation input through the overall management section 600, a display controller 300 determines a specific one of the worksheets to be
25 displayed. The display controller 300 reads out data from the business data file 400. Data accompanying to the readout worksheet is also read out. The readout

data and worksheet are transmitted through the overall management section 600 and displayed on the display 500.

For example, the worksheet describes business logic terms, as shown in FIG. 3. Data can be filled in blank portions (data input positions) corresponding to these business terms. This example is a worksheet with which a credit amount is set for a client. The title "Description of Credit Amount for Client" is set in this worksheet. To read out this worksheet, an operation called the start of program preparation (or business rule setting) is performed from an operation unit 501. For example, if the menu requests a desired title, the title menu corresponding to the request appears. The user refers to the title menu and clicks the title "Description of Credit Amount for Client". Therefore, the worksheet is displayed on the display.

The overall management section 600 activates the system and responds to an input from the operation unit 501.

Since the data processing contents corresponding to the item "Description of Credit Amount for Client" are predetermined, the business logic applying section 200 has data representing the correlation between software for performing this data processing and the worksheet.

In the display state shown in FIG. 3A, the client

number and the company name are input. This worksheet also has columns of the date of start of application, the date of end of application, the credit amount, and the stop of application. Necessary data are filled in these columns, respectively. In this example, the date of start of application is 97/06/06, and the credit amount is 200,000,000. No data are filled in the columns of the date of end of application and the stop of application. When no data are filled, data processing for these business logic items are not automatically performed.

A worksheet for creating a sales merchandise list of a client is also stored in the business logic applying section 200. Various types of data of the client (these data are called business rule setting data hereinafter) can be created.

When necessary rule setting data are filled in the necessary worksheet, the end of window display is clicked. Each worksheet is stored in the business data file 400. Since the necessary data processing in a business operation is predetermined depending on the types (contents) of the rule setting data, a program to be applied to each data can be determined upon the data input.

In actual use of the computer, when application data is input to check a client for, e.g., the above-mentioned credit amount, it must be determined

whether the application data is appropriate. The upper
limit check processing is performed by comparing the
application data with the previously input credit
amount (business setting data) and by determining
5 whether the amount represented by the application data
exceeds the value of the business rule setting data.

More specifically, according to the present
invention, business application software is perfectly
separated into business logic and program logic
10 (computer logic) in accordance with a predetermined
reference, and the arrangement of the apparatus is
considered based on this separation. Elements of the
predetermined reference are slips and references.
And computer windows, computer books, slips for
15 business worksheets (business documents) and items
expressed in the worksheets are made.

Further the business data are classified into
a business transaction know-how data group (meaningful
minimum unit elements for determining the contents of
20 a business contract and the like), a basic business
operation data group (meaningful minimum unit elements
such as company rules for pursuing the contract), and
an account data group (meaningful minimum units such as
accounting processing rules based on the Commercial
25 Code, the tax law, the commercial transaction law).
These data groups are made to corresponding to applica-
tion software programs for processing these data groups.

More specifically, the data groups are made to correspond to application software programs such as an upper limit check program, a lower limit check program, a presence check program, and an total amount processing program.

The data are separated and arranged as described above. Only the mechanism for processing the above items is left as the program logic to constitute the application software. This is the business OS. These business items are simple data if their contents are known. These are business data.

The software (business OS) stored in the business logic applying means is a software group for performing upper limit check processing, the lower limit check processing, the presence check processing, and the total amount processing using the application data (i.e., data input when the apparatus of the present invention is used in actual business transaction and the corresponding business rule setting data (data stored as a database in advance).

Referring back to FIG. 3, a database using a worksheet is prepared. The above example is the case in which the credit amount is set for a given client. In addition, a client company list database, database of sales merchandise for clients, data of unit prices and quantity information of the sales merchandise can also be prepared.

FIG. 3B shows an application window when a client, ABCDE Co. made an order. In this case, an application worksheet is read out as the worksheet. As shown in FIGS. 3A and 3B, accessed information is input to each
5 necessary position. More specifically, the client code, the client name, the merchandise code, the unit price, the quantity, and the amount of order received are input. When these data are input, the start is instructed. The apparatus is switched to the
10 application mode by the operation unit 501, and the user requests the menu of the above application window for its worksheet. The display controller 300 displays the title of the application worksheet. When a desired title, i.e., "order reception" is present, the user
15 clicks the title.

The application window shown in FIG. 3B is obtained on the display 500. The user then inputs data. When the start of inquiry is operated by the user, it is determined whether the amount of order received
20 exceeds the credit amount (upper limit check processing). At this time, the software is executed as follows. The business logic applying unit 200 detects the item defined as the amount of order received, automatically selects the upper limit check processing
25 software, and then executes this software. The resultant data is displayed as "within the credit amount" or "over the credit amount" is displayed on

the display 500 through the display controller 300 and the overall management section 600.

FIG. 4 shows a correlation table among the worksheets, the business logic terms described in the worksheets, the worksheet group data in which the business logic terms are present, and application software. The business data file 400 or the business logic applying section 200 has this correlation table to detect the worksheet currently accessed on the display 500, detects the corresponding business logic term when data is input, and determines the application software. Data obtained upon applying the software is fed back as a window on the display again. The table in FIG. 4 can be described in either the business logic applying section 200 or the business data file 400.

The above embodiment has described the basic principle of the present invention. The present invention is not limited to the above embodiment. The business logic terms are merely examples. All the items such as various types of slips, books and slips, and settling slips correspond to the business logic terms of the present invention. These terms are used as the references that the business logic applying section selects appropriate software.

FIG. 5 is a block diagram showing the detailed arrangement of the present invention.

The same reference numerals as in FIG. 2 denote

the same parts in FIG. 5. The data in the business data file 400 in FIG. 2 are classified using the worksheet and the data applied to the items described in this worksheet.

5 In addition, the data in FIG. 5 are classified in accordance with the natures. The data natures are classified into frequently updated simple data and semipermanent data. In FIG. 5, the simple data are collected in a business data recording section, while
10 the semipermanent data are collected in a control data recording section.

 The data in the business data recording section are further classified, depending on the types, into a business transaction recording section, a business
15 operation recording section, and a rule (e.g., various regulations) recording section.

 When these data are updated, the results are left as a record (history).

 The transaction time, the company, and the
20 contents of a transaction are left as a business transaction record. The operation proceeding data, the accounting history data, and the personnel management history data are recorded as a business operation record. Various regulation data (e.g., data before and
25 after changes in office regulation) and data before and after changes in credit amount of a client company are recorded as a business rule record. Information

representing a change in purchase quantity of
merchandise of a client company, and the like are also
recorded in the business data recording section. The
business data recording section also serves as a
5 recording section for recording a value of a special
sales merchandise sold at a discount.

The data in the control data recording section
are classified, depending on the types, into a rule
applying regulation recording section, a window layout
10 recording section, and a book and slip layout recording
section. As described with reference to FIG. 4, the
logic term of a worksheet, and a table representing the
relationship between the logic term and the associated
software are described in the rule applying section.

15 In the above description, for better understanding
of functions, the overall management section 600, the
business logic applying section 200, and the display
controller 300 are illustrated as the separate blocks,
but may be integrated with each other.

20 In the above system, the rule setting data input
position for inputting the date of application as the
business logic term for setting the business rule is
present on the worksheet. That is, the worksheet has
time axis information which is effectively utilized.
25 The date of start of application and the date of end of
application are present for the lapse of time and the
date of application. The data input positions are

present for these items. To input the date of application, a means for requesting a password key input concomitently operates in the rule setting means.

5 The operation unit 501 can be immediately operated to change the rule setting data in the presence of these functions when the user wants to stop business transactions with a plurality of client companies or to stop importing some merchandise from a supplier. For this reason, the operation speed in business
10 operations can increase. When this system is applied to business operations, business operation management has high reliability, and the system has a high utilization value. In addition, the system can immediately cope with a change of rate in foreign
15 currency.

 Since the business rule data representing the past rule records are present in this system, data currently accessed at a past rate can be easily calculated.

20 From FIG. 6A, the detailed tables of business operations arranged in the business logic applying section 200 are shown. The correlation tables among the respective business operation processing, the business operation contents, windows to be used, the
25 books on which data are to be recorded, and ledgers.

 FIGS. 6A to 6Z show business operation processing standards. The columns of each standard has computer

business operation processing (business operation processing minimum unit reference/computer business operation processing reference), a rule setting business operation, a commercial transaction operation, a distribution operation, a circulation operation, a manufacturing operation, slips (slip filling reference/window design reference) for recording basic business operations, books/slips/ledgers for recording basic business operations, a Commercial Code reference, an accounting reference, a tax reference, and a securities exchange reference are sequentially formed from the left column. A circle in each column represents a flag.

For example, the columns having No. 17 in FIG. 6B describe the processing contents for opening the transaction account of a client. To execute this processing is to execute rule setting business operation. An item representing the opening of the transaction account of a client is clicked in the menu. An account-opening slip for the transaction account is displayed in the window in order to open the account. The user operates the apparatus while viewing the window, so that the data described in this slip is described in a client book (file) as client data. When the data is added as described above, the Commercial Code reference, the accounting reference, the tax reference, and the commercial transaction reference are

applied. The following meaning is described in the columns having No. 79 in FIG. 6G. No. 79 represents the shipping instruction of sales merchandise. This belongs to the commercial transaction operation. When
5 a shipping instruction is to be issued, the note of shipment of the sales merchandise is read on the window, and the operator enters data (e.g., permission and quantity). This data is described in the shipping instruction register. The stock or the like can be
10 calculated when using the input data (e.g., permission and quantity). Software for processing this data (e.g., permission and quantity) can be determined. For example, inventory processing of the sales merchandise having No. 111 in FIG. 6I can be executed
15 using the determined software.

A database associated with each business operation can be prepared by preparing the business operation processing standard table as described above. In addition, software can be automatically determined when
20 the data of such a database are used. A program for associating these data with software is stored in, e.g., the overall management section 600.

FIGS. 7A-1 to 8B-3 show the tables of contents (rules) by which the apparatus of the present invention
25 operates in performing an order reception operation and an ordering operation. FIGS. 7A-1, 7A-2, 7B-1, 7B-2, and 7B-3 represent one table, and FIGS. 8A-1, 8A-2,

8B-1, 8B-2, and 8B-3 represent one table. This table has the columns of business operation processing rule, business operation processing rule logic, business operation processing rule application item, and business operation rule check item from the left column. For example, when confirmation of purchase merchandise having No. 1 in FIG. 7A-1 is selected from the menu, it is checked if the purchase merchandise is purchasable. A window for inputting the name of the purchase merchandise and its code is displayed in the window. When the user inputs appropriate data while watching the window, the check is started on the basis of the determination in the business logic applying section 200. A supplier, and the presence of a supplier organization are automatically checked while referring to the database. When confirmation of the appropriate stock of the purchase merchandises having No. 6 and whether the total stock is proper are selected, the appropriate stock of purchase merchandises is checked. At this time, the user inputs the quantity of order in the item, "order purchase merchandise" appearing in the window. The total stock is automatically checked. This check is the upper limit check to determine whether the quantity of order exceeds the total stock. In addition, it is also checked if this purchase merchandise is stocked.

FIGS. 9A and 9B show a business rule table applied

to confirm the presence of a person in charge in
ordering or order reception. FIGS. 9A and 9B
constitute one table.

5 In the above table, some items are exemplified,
but other items can also be used in the same manner as
described above.

User's operation of the apparatus of the present
invention when installing the apparatus will be briefly
described below.

10 The new working apparatus can be prepared by a
data control type business application recorded on,
e.g., a recording medium. The application is installed
in the computer main body using a setup program.

15 FIG. 10 shows an operation example in the
preparation stage in which the apparatus of the present
invention is used in business operations. Overall unit
management is performed by the overall management
section 600, and the operation order of the respective
units, data search, data output, and the like are
20 controlled by the overall management section 600.

In the preparation stage, items whose flags are
set in the columns of the rule setting operations in
the tables from FIG. 6B are processed. For example,
assume that the operation unit is operated to use the
25 apparatus for business operation working. A business
operation working window (worksheet) for preparing for
a data file is displayed on the display from a working

preparation menu (steps a1 and a2). While viewing the window, the user inputs business setting data in the black portions of appropriate items (step a3) to prepare a business operation data file. A similar
5 processing routine is executed to set a business operation rule.

FIG. 11 shows an operation example for using a data base (control data) thus prepared. In a business operation menu display state, when the user selects
10 a target item in the menu (step b1), the window is changed to a business operation processing window (step b2) corresponding to the selected item. The user inputs necessary data while viewing the business operation processing window (b3). The business logic
15 applying section 200 intelligently determines necessary software using the tables shown in FIGS. 6A-1 to 9B in accordance with the types of input data, and displays the processing result (step b4). The user retries the operation upon checking the processing result or enters
20 OK (step b5).

FIG. 12 shows a processing sequence used when a business operation rule must be changed. When the user operates the business operation rule change key, a prompt is displayed to input a password with keys
25 (c1 and c2). This aims at preventing anybody from arbitrarily changing the rule. When the password is input, a preparation menu is displayed as in the above

preparation. The user selects an item for changing the rule from the displayed menu (step c3). When the business operation rule setting window appears, condition data is input to a necessary portion
5 (step c5).

Several examples will be described below.

(1) Check of Account of Client in Order Reception
Operation

(a) Preparation for Order Reception...the client
10 is registered in this preparation.

(b) Actual Order Reception Operation Time...it is checked if the client is registered in advance.

(2) Check of Credit Amount in Order Reception Operation

(a) Preparation for Order Reception...the client
15 is registered, and its credit amount is registered.

(b) Actual Order Reception Operation Time...it is checked if the sum of the account receivable of the client and the amount of order exceeds the credit amount.

20 (3) Check of Authority of Person in Charge in Order Reception Operation

(a) Preparation for Order Reception...the person in charge is registered, and the upper limit amount of the sales authority of the person in charge is
25 registered.

(b) Actual Order Reception Operation Time...it is checked if the total amount of order received exceeds

the upper limit amount of the sales authority of the person in charge.

The present invention is not limited to the above embodiment, various changes and modifications can be made.

FIG. 13A shows an arrangement in which a display 500 and a new working apparatus 1000 are connected through data transmission/reception units (modems) 701 and 702. With this arrangement of the apparatus, business data processing and business rule setting can be performed at a remote location through the network. In this case, software for controlling the transmission/reception unit 701 is installed on the recording medium or in the hardware of the new working apparatus.

According to the present invention, the new working apparatus 1000 and the computer main body 100 may be arranged in a server on the network.

FIG. 13B shows an arrangement in which a new working apparatus 1000 and a computer main body 100 are arranged in a server 200 on the network. The new working apparatus 1000 can be accessed from a terminal 500A having a display and an operation unit. The new working apparatus 1000 can also be accessed from a terminal 500B through the server 201. In this case, each terminal must have a modem.

With the above arrangement, when the new working

apparatus 1000 can issue identification codes to the respective terminals and can individually process the data from the terminals, the new working apparatus 100 can be shared by a plurality of different companies.

5 FIG. 13C shows an arrangement in which a new working apparatus 1000 and a computer main body 100 are integrated with a personal computer 3000 having a display, an operation unit, and a modem. The program-installed personal computer 3000 is connected
10 to other personal computers 3001 and 3002 through a network. By preparing this network, the user can use the personal computers 3001 and 3002 as if the new working apparatus 1000 were owned by the personal computers 3001 and 3002.

15 FIG. 14 shows various business data files. The business data files are prepared in a plurality of languages as languages used in these files and appearing in the windows of the display. With this arrangement, the system of the present invention can be
20 used in all countries in the world. In this case, an overall management section 600 has a language selection function, and the user can set a desired language through an operation unit 501.

 The present invention is not limited to the
25 above embodiment. The display controller 300 also has a function of displaying a plurality of business operation processing windows (worksheets) on

the display 500. More specifically, as shown in FIG. 15A, for example, slips 1, 2, and 3 can be displayed and processed in comparison. When data are input to data input positions of a worksheets, the
5 priority of data processing may be determined in advance or the processing order may be determined in accordance with operations. As indicated by the hatched portions in FIG. 15B, for example, a slip may have a plurality of items, and the items may serve as
10 a plurality of data input positions. In this case, the data processing order may be determined by the user or automatically determined. No data processing is performed for a blank portion having no data, as a matter of course.

15 The use examples of the apparatus of the present invention will be further described below.

FIG. 16A shows a rule setting window for setting a presence check rule. FIG. 16B shows a presence check application window. The rule setting window has a
20 supplier code, a supplier name, the date of start of transaction, the date of end of transaction, and the stop of application.

Assume that the order No., the date of order, and the supplier code are input as 0501, 95/06/06, and 0300,
25 respectively. Since this supplier is present in the data file and the date of start of transaction is appropriate, an order can be made. The information of

the supplier, merchandise codes, and merchandise names are displayed. At this time, if no supplier is present, or the date of end of transaction has passed, an alarm message or sound is generated.

5 FIG. 17A shows a rule setting window when the rule is set for checking the upper limit of the sales amount authority of the person in charge. FIG. 17B shows the upper limit check application window. The rule setting window has, as items, the date of start of application,
10 the date of end of application, the sales amount authority, and the stop of application. Assume that the person in charge inputs the person-in-charge code as 95010, the order reception date as 97/01/30, the client as X company, merchandise codes, merchandise
15 names, quantities, unit prices, and the like in the order reception application window. In the application window, spreadsheet software is automatically operated to calculate the total amount. Check software is then operated to check if the total amount falls within the
20 sales amount authority and if the date of application is appropriate. In the illustrated example, nothing appears or no alarm is generated because all the input data are appropriate.

 FIG. 18A shows a rule setting window for setting
25 a rule upon describing the number of days required for merchandise delivery. FIG. 18B shows a lower limit check application window. The rule setting window has,

as items, the merchandise code, the merchandise name, the date of start of application, the date of end of application, the number of days required for merchandise delivery, and the stop of application.

5 Assume that the person in charge inputs the order reception date as 97/07/07, the date of delivery as 97/07/10, the merchandise code, the merchandise name, the quantity, and the unit price in the order reception application window. In this case, the merchandise code
10 is confirmed, and the sum of the order reception date and two days (the number of days required for delivery) is calculated as 97/07/09. The date of delivery desired by the user is 97/07/10. The lower limit check processing is then performed to determine that the
15 order reception is allowed.

FIG. 19A shows a rule setting window for setting a rule for a merchandise sales set as an example of unit check. FIG. 19B shows an order reception application window. The rule setting window has, as items, the
20 merchandise code, the merchandise name, the date of start of application, the date of end of application, the sales set, and the stop of application. Data are then input to these items.

Assume that the order reception date, the
25 merchandise code, and the quantity are input as 97/03/03, 4531213, and 100, respectively, in the application window upon allowing order reception.

In this case, since the input quantity is 100 which is twice 50, the order reception is allowed.

FIG. 20A shows a rule setting window for describing merchandise unit prices for the respective quantities. This processing belongs to edit processing. The rule setting window has, as items, the merchandise code, the merchandise name, the date of start of application, the date of end of application, the quantity range, the unit price, and the stop of application.

Assume that the order reception date, the merchandise code, and the quantity are input as 97/06/01, 4531213, and 250, respectively in the application window. In this case, the order reception can be allowed without any problem. If the quantity is 205, the unit price is given as ¥90 according to the rule setting data. Data "90" is read out and displayed in the column of unit price. The arithmetic function is performed to calculate 90×250 , and "22,500" is displayed in the column of amount.

In addition, according to the apparatus of the present invention, data processing of the same contents can be performed for a plurality of items in different conditions.

For example, when merchandise sales quantity data is present, an exchange table representing the business results in dollar, yen, and mark can be

easily displayed using the business result sheet as the application window. This processing can be performed using the common program for executing the exchange rule because only the exchange conditions
5 (rate coefficients) are different. The merchandise sales quantity data is input to the input position of the sales quantity in the business result sheet, and yen, dollar, or mark is set in the condition input position. When the apparatus of the present invention
10 is used as described above, for example, a plurality of business result sheets are displayed, and the business results obtained upon exchange in yen, dollar, and mark can be simultaneously checked in the same window.

The above rule setting windows and application
15 windows are merely examples. Various changes and modifications may be made within the spirit and scope of the invention.

In the above description, the new working apparatus 1000 is installed in the computer system
20 using a recording medium such as an optical disk to prepare the respective processing routines. The present invention, however, is not limited to this. The new working apparatus 1000 itself is prepared as hardware constituting the business logic applying
25 section 200, the display controller 300, the overall management section 600. In addition, the business data file 400 may be constituted by a hardware memory, and

this portion may be constituted as a detachable recording medium such as a disk. When the business data file section is detachably arranged, it can be replaced with a new one in the change and correction of design and layout of a worksheet.

As has been described above, when the user simply inputs data without being aware of a program language (e.g., COBOL or FORTRAN), the input data meaning is detected, and software for this data processing can be automatically applied and prepared. Immediate response processing is allowed in accordance with the setting data input. Software recheck or correction need not be performed.

Additional advantages and modifications will readily occurs to those skilled in the art. Therefore, the invention in its broader aspects is not limited to the specific details and representative embodiments shown and described herein. Accordingly, various modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.



CLAIMS

1. An apparatus for applying and preparing software, comprising:

5 a worksheet file storing various kinds of business worksheets each including at least one business logic term representing a minimum unit in a business operation;

10 rule setting means for displaying a given one of the business worksheets which corresponds to user selection information on a display to indicate a data input position of the given business worksheet together with a corresponding business logic term;

15 a business data file for, when data is input to the data input position, storing the input data as business rule setting data;

using means for inputting application data corresponding to the business logic term stored in said business data file; and

20 business logic applying means for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data
25 corresponding to the application data, and obtaining an arithmetic processing result.

2. An apparatus according to claim 1, wherein

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the software used in said business logic applying means is software for performing upper limit check processing using the application data and rule setting data corresponding to the application data.

5 3. An apparatus according to claim 1, wherein the software used in said business logic applying means is software for performing lower limit check processing using the application data and rule setting data corresponding to the application data.

10 4. An apparatus according to claim 1, wherein the software used in said business logic applying means is software for performing presence check processing using the application data and rule setting data corresponding to the application data.

15 5. An apparatus according to claim 1, wherein the software used in said business logic applying means is software for performing unit check processing using the application data and rule setting data corresponding to the application data.

20 6. An apparatus according to claim 1, wherein the software used in said business logic applying means is software for performing edit processing using the application data and rule setting data corresponding to the application data.

25 7. An apparatus according to claim 1, wherein the software used in said business logic applying means is software for performing total amount/comparison



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processing using the application data and rule setting data corresponding to the application data.

8. An apparatus according to claim 1, wherein the business logic term is prepared in display data
5 corresponding to a plurality of languages.

9. An apparatus according to claim 1, wherein said display and said using means are located at a remote place through a communication path.

10. An apparatus according to claim 1, comprising
10 security means for requesting a key input of a user when data is to be input from said using means.

11. An apparatus according to claim 1, wherein said rule setting means for displaying the worksheet on said display has a function of simultaneously
15 displaying a plurality of types of worksheets.

12. An apparatus according to claim 11, wherein when data are input to data input positions of the plurality of types of worksheets, a data processing order is predetermined.

20 13. An apparatus according to claim 1, wherein the worksheet has a rule setting data input position for inputting a date of application as a business logic term for setting a business rule.

25 14. An apparatus according to claim 13, wherein the date of application includes a date of start of application and a date of end of application, and data input positions for the date of start of application



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and the date of end of application are present.

15. An apparatus according to claim 13, wherein means for requesting a password input is concomitantly operated in said rule setting means in order to input
5 the date of application.

16. An apparatus for applying and preparing software, comprising:

a worksheet file section storing various kinds of business worksheets each including at least one
10 business logic term representing a minimum unit in a business operation;

a storage section for rule setting software for displaying a given one of the business worksheets which corresponds to user selection information on a display
15 to indicate a data input position of the given business worksheet together with a corresponding business logic term;

a business data file section for, when data is input to the data input position, storing the input
20 data as business rule setting data;

a storage section of first use software for inputting application data corresponding to the business logic term stored in said business data file;
and

25 a storage section of second use software for applying business logic for, when the application data is input, determining software to be used in





correspondence with the business logic term
corresponding to the application data, performing
arithmetic processing by the determined software using
the application data and the business rule setting data
5 corresponding to the application data, and obtaining an
arithmetic processing result.

17. An apparatus according to claim 16, wherein
software stored in said storage section of second
use software is a software group for performing upper
10 limit check processing, lower limit check processing,
presence check processing, and total amount processing
using the application data and rule setting data
corresponding to the application data.

18. An apparatus for applying and preparing
15 software, comprising:

a worksheet file storing various kinds of business
worksheets each including at least one business logic
term representing a minimum unit in a business
transaction;

20 rule setting means for displaying a given one of
the business worksheets which corresponds to user
selection information on a display to indicate a data
input position of the given business worksheet together
with a corresponding business logic term;

25 a business data file for, when data is input to
the data input position, storing the input data as
business rule setting data;





using means for inputting application data corresponding to the business logic term stored in said business data file; and

5 business logic applying means for, when the application data is input, determining a plurality of software programs to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing and logic processing by the determined software programs using
10 the application data and the business rule setting data corresponding to the application data, and obtaining an arithmetic processing result.

19. A recording medium for applying and preparing software, comprising:

15 a worksheet file section storing various kinds of business worksheets each including at least one business logic term representing the minimum unit in a business operation;

rule setting software for displaying a given one
20 of the business worksheets which corresponds to user selection information on a display to indicate a data input position of the given business worksheet together with a corresponding business logic term;

a business data file section for, when data is
25 input to the data input position, storing the input data as business rule setting data;

first use software for inputting application data





corresponding to the rule setting data stored in said business data file section; and

second use software for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data, and obtaining an arithmetic processing result.

20. A medium according to claim 19, wherein the second use software is software for performing upper limit check processing using the application data and rule setting data corresponding to the application data.

21. A medium according to claim 19, wherein the second use software is software for performing lower limit check processing using the application data and rule setting data corresponding to the application data.

22. A medium according to claim 19, wherein the second use software is software for performing presence check processing using the application data and rule setting data corresponding to the application data.

23. A medium according to claim 19, wherein the second use software is software for performing unit check processing using the application data and rule setting data corresponding to the application data.

24. A medium according to claim 19, wherein





the second use software is software for performing edit processing using the application data and rule setting data corresponding to the application data.

25. A medium according to claim 19, wherein the
5 second use software is software for performing total amount/comparison processing using the application data and rule setting data corresponding to the application data.

26. A medium according to claim 19, wherein the
10 business logic term is prepared in display data corresponding to a plurality of languages.

27. A medium according to claim 19, wherein software for displaying data on said display includes transmission/reception control software.

15 28. A medium according to claim 19, wherein the rule setting software includes procedure means for performing security check for requesting a key input of a user when data is to be input from said using means.

20 29. A medium according to claim 19, wherein rule setting software for displaying the worksheet on said display has a processing routine for displaying a plurality of types of worksheets.

30. A medium according to claim 29, wherein when
25 data are input to data input positions of the plurality of types of worksheets, a data processing order is predetermined.

31. A medium according to claim 19, wherein



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the worksheet has a rule setting data input position for inputting a date of application as a business logic term for setting a business rule.

5 32. A medium according to claim 31, wherein the date of application includes a date of start of application and a date of end of application, and data input positions for the date of start of application and the date of end of application are present.

10 33. A medium according to claim 31, wherein a processing routine for requesting a password key input is concomitantly operated under an environment of the rule setting software in order to input the date of application.

15 34. An apparatus for automatically applying and preparing software, and recording medium for preparing software, substantially as hereinbefore described with reference to the accompanying drawings.



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ABSTRACT OF THE DISCLOSURE (FIG. 2)

"APPARATUS FOR AUTOMATICALLY APPLYING AND
PREPARING SOFTWARE, AND RECORDING MEDIUM FOR
PREPARING SOFTWARE"

5

When data is simply input without being aware of
describing a program language (e.g., COBOL or FORTRAN),
the data input meaning is detected, and software for
this data processing is automatically applied and
10 prepared. Various types of worksheets corresponding
to the business logic terms and data input positions
are stored in a business data file. When an operation
unit is operated and data is input to the data input
position, the input data is stored as rule setting data.
15 When application data corresponding to the rule setting
data is input through the operation unit, a business
logic applying section determines the use software in
accordance with the corresponding business logic term.

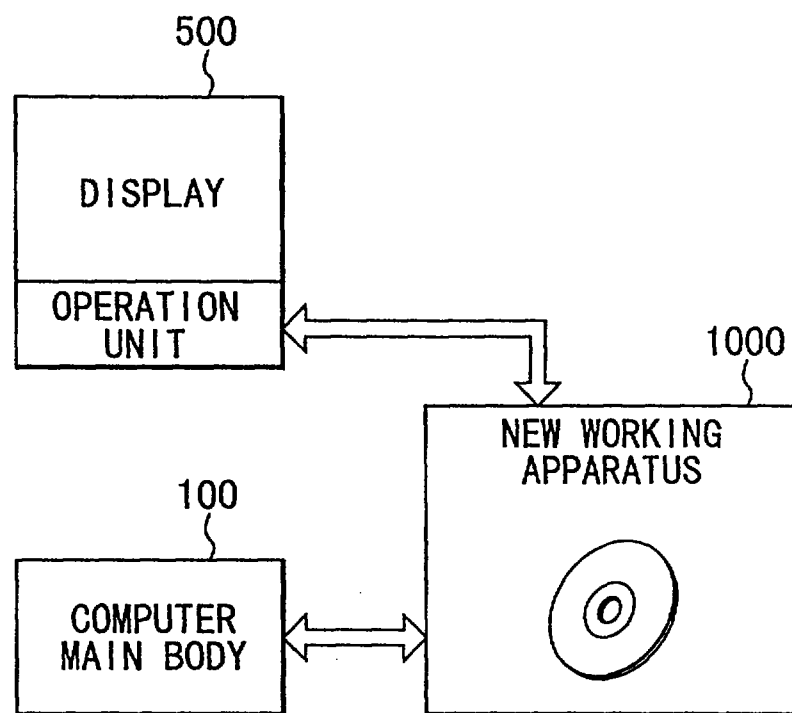


FIG. 1

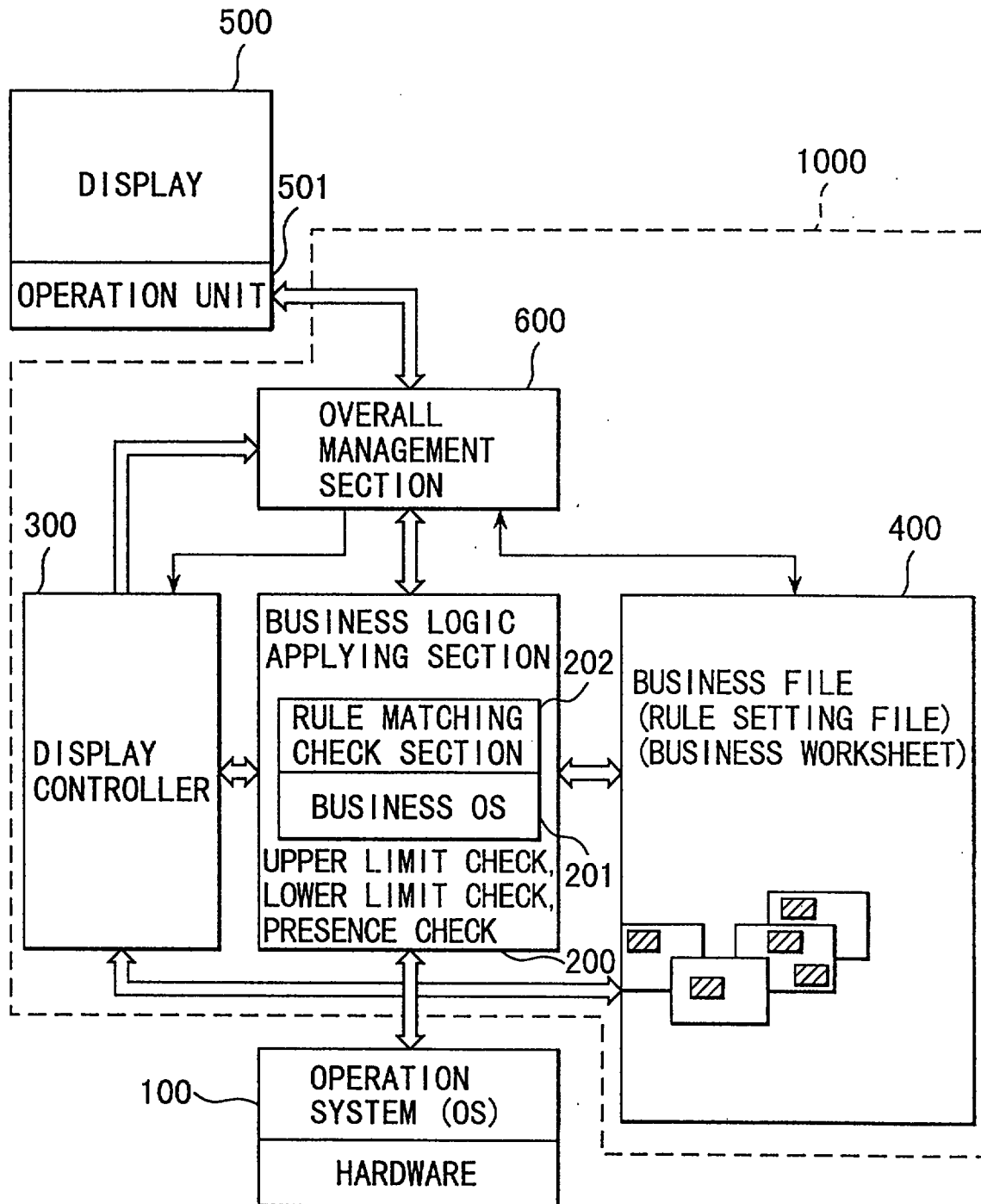


FIG. 2

DESCRIPTION OF CREDIT AMOUNT OF CLIENT			
CLIENT NO. <u>020010</u>		CLIENT NAME <u>ABCDE COMPANY</u>	
DATA OF START OF APPLICATION	DATA OF END OF APPLICATION	CREDIT AMOUNT	STOP OF APPLICATION
97/06/06	00/00/00	200,000,000	
			END CANCEL

[SETTING WINDOW]

FIG. 3A

ORDER RECEPTION			
CLIENT NO. <u>020010</u>		CLIENT NAME <u>ABCDE COMPANY</u>	
MERCHANDISE CODE <u>XX0001</u>	UNIT PRICE <u>XXXX</u>	QUANTITY <u>YYYY</u>	
		AMOUNT OF ORDER RECEIVED <u>○○○○○○○</u>	

[APPLICATION WINDOW]

FIG. 3B

BUSINESS TERM	WORKSHEET	APPLICATION SOFTWARE (UPPER LIMIT) (LOWER LIMIT) (PRESENCE) (TOTAL AMOUNT)
DATA	00000	PRESENCE
CLIENT NO.	00000	PRESENCE
MERCHANDISE CODE	01000	PRESENCE
AMOUNT OF ORDER RECEIVED	10100	UPPER LIMIT
:	:	:
:	:	:
:	:	:

FIG. 4

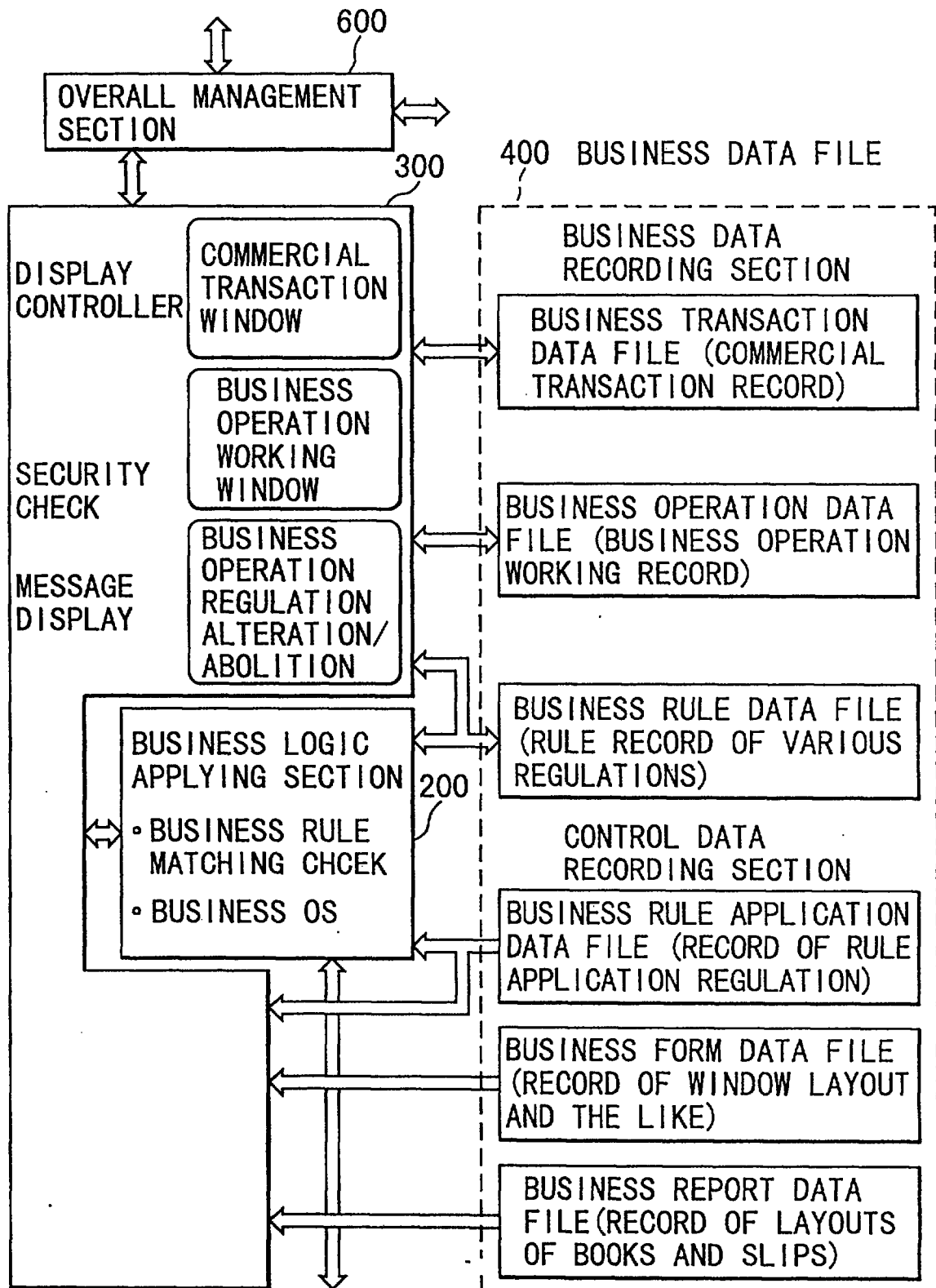


FIG. 5

COMPUTER BUSINESS OPERATION PROCESSING STANDARD

No.	COMPUTER BUSINESS OPERATION PROCESSING (BUSINESS OPERATION PROCESSING MINIMUM UNIT REFERENCE/COMPUTER BUSINESS OPERATION PROCESSING REFERENCE)	RULE SETTING BUSINESS OPERATION	COMMERCIAL TRANSACTION OPERATION	ALLOTMENT OPERATION	CIRCULATION OPERATION	MANUFACTURING OPERATION	SLIPS FOR RECORDING BASIC BUSINESS OPERATIONS (SLIP FILLING REFERENCE/WINDOW DESIGN REFERENCE)	BOOKS/SLIPS/LEDGERS FOR RECORDING BASIC BUSINESS OPERATIONS (ENTRY REFERENCE/ DATA FILE DESIGN REFERENCE)	COMMERCIAL CODE REFERENCE	ACCOUNTING REFERENCE	TAX REFERENCE	SECURITIES EXCHANGE REFERENCE
1	SETTING OF BUSINESS DAY	○					BUSINESS DAY CALENDAR	BUSINESS DAY CALENDAR				
2	REGISTRATION OF PERSON IN CHARGE	○					PERSON IN CHARGE	PERSON IN CHARGE				
3	SETTING OF SALES MERCHANDISE OF PERSON IN CHARGE	○					SALES MERCHANDISE OF PERSON IN CHARGE	SALES MERCHANDISE OF PERSON IN CHARGE				
4	SETTING OF CLIENT OF PERSON IN CHARGE	○					CLIENT OF PERSON IN CHARGE	CLIENT OF PERSON IN CHARGE				
5	SETTING OF SALES AUTHORITY OF PERSON IN CHARGE	○					SALES AUTHORITY OF PERSON IN CHARGE	SALES AUTHORITY OF PERSON IN CHARGE				
6	SETTING OF PURCHASE MERCHANDISE OF PERSON IN CHARGE	○					PURCHASE MERCHANDISE OF PERSON IN CHARGE	PURCHASE MERCHANDISE OF PERSON IN CHARGE				
7	SETTING OF SUPPLIER OF PERSON IN CHARGE	○					SUPPLIER OF PERSON IN CHARGE	SUPPLIER OF PERSON IN CHARGE				
8	SETTING OF PURCHASE AUTHORITY OF PERSON IN CHARGE	○					PURCHASE AUTHORITY OF PERSON IN CHARGE	PURCHASE AUTHORITY OF PERSON IN CHARGE				
9	REGISTRATION OF ORGANIZATION	○					ORGANIZATION CHART	ORGANIZATION CHART				
10	SETTING OF BUSINESS DAY OF ORGANIZATION	○					BUSINESS DAY OF ORGANIZATION	BUSINESS DAY OF ORGANIZATION				
11	SETTING OF SALES MERCHANDISE OF ORGANIZATION	○					SALES MERCHANDISE OF ORGANIZATION	SALES MERCHANDISE OF ORGANIZATION				
12	SETTING OF CLIENT OF ORGANIZATION	○					CLIENT OF ORGANIZATION	CLIENT OF ORGANIZATION				

FIG. 6A

13	SETTING OF CLIENT ORGANIZATION OF ORGANIZATION	○						CLIENT ORGANIZATION OF ORGANIZATION					
14	SETTING OF PURCHASE MERCHANDISE OF ORGANIZATION	○						PURCHASE MERCHANDISE OF ORGANIZATION					
15	SETTING OF SUPPLIER OF ORGANIZATION	○						SUPPLIER OF ORGANIZATION					
16	SETTING OF SUPPLIER ORGANIZATION OF ORGANIZATION	○						SUPPLIER ORGANIZATION OF ORGANIZATION					
17	OPENING OF CLIENT ACCOUNT	○						CLIENT ACCOUNT OPENING SLIP	○	○	○	○	○
18	STOP OF TRANSACTION FOR CLIENT ACCOUNT	○						CLIENT ACCOUNT TRANSACTION STOP SLIP	○	○	○	○	○
19	RESTART OF TRANSACTION FOR CLIENT ACCOUNT	○						CLIENT ACCOUNT TRANSACTION RESTART SLIP	○	○	○	○	○
20	CLOSING OF CLIENT ACCOUNT	○						CLIENT ACCOUNT CLOSING SLIP	○	○	○	○	○
21	RESTORATION OF CLIENT ACCOUNT	○						CLIENT ACCOUNT TRANSACTION RESTORATION SLIP	○	○	○	○	○
22	SETTING OF BUSINESS DAY OF CLIENT	○						BUSINESS DAY CALENDAR OF CLIENT					
23	SETTING OF ORGANIZATION OF CLIENT	○						ORGANIZATION CHART OF CLIENT					
24	SETTING OF COLLECTION SCHEDULE DATE OF CLIENT	○						COLLECTION SCHEDULE DATE OF CLIENT					
25	SETTING OF BILLING PERIOD OF CLIENT	○						BILLING PERIOD OF CLIENT					
26	SETTING OF DEADLINE OF CLIENT	○						DEADLINE OF CLIENT					

FIG. 6B

27	SETTING OF DELIVERY DESTINATION OF CLIENT	○						DELIVERY DESTINATION OF CLIENT				
28	SETTING OF CREDIT AMOUNT OF CLIENT	○						TABLE OF CREDIT AMOUNT OF CLIENT				
29	REGISTRATION OF SALES OF SALES MERCHANDISE	○						SLIP OF START OF SALES MERCHANDISE	○	○	○	○
30	STOP OF SALES OF SALES MERCHANDISE	○						SALES STOP SLIP OF SALES MERCHANDISE	○	○	○	○
31	RESTART OF SALES OF SALES MERCHANDISE	○						SALES RESTART SLIP OF SALES MERCHANDISE	○	○	○	○
32	ABANDONMENT OF SALES OF SALES MERCHANDISE	○						SALES ABANDONMENT SLIP OF SALES MERCHANDISE	○	○	○	○
33	RESTORATION OF SALES OF SALES MERCHANDISE	○						SALES RESTORATION SLIP OF SALES MERCHANDISE	○	○	○	○
34	SETTING OF SALES PRICE OF SALES MERCHANDISE	○						PRICE LIST OF SALES MERCHANDISE				
35	SETTING OF QUANTITY DISCOUNT PRICE OF SALES MERCHANDISE	○						QUANTITY DISCOUNT PRICE LIST OF SALES MERCHANDISE				
36	SETTING OF GOOD BUY RELATED TO SALES MERCHANDISE	○						GOOD BUY RELATED TO SALES MERCHANDISE				
37	SETTING OF SUBSTITUTE OF SALES MERCHANDISE	○						SUBSTITUTE OF SALES MERCHANDISE				
38	SETTING OF MERCHANDISE SIMILAR TO SALES MERCHANDISE	○						MERCHANDISE SIMILAR TO SALES MERCHANDISE				
39	SETTING OF STRATEGIC STOCK OF SALES MERCHANDISE	○						STRATEGIC STOCK OF SALES MERCHANDISE				
40	SETTING OF SALES LOT OF SALES MERCHANDISE	○						SALES LOT OF SALES MERCHANDISE				

FIG. 6C

41	SETTING OF DELIVERY LOT OF SALES MERCHANDISE	○							DELIVERY LOT OF SALES MERCHANDISE				
42	SETTING OF TIME REQUIRED FOR DELIVERY OF SALES MERCHANDISE	○							TIME REQUIRED FOR DELIVERY OF SALES MERCHANDISE				
43	SETTING OF STOCK LIMIT OF SALES MERCHANDISE	○							STOCK LIMIT OF SALES MERCHANDISE				
44	SETTING OF APPROPRIATE STOCK OF SALES MERCHANDISE	○							APPROPRIATE STOCK OF SALES MERCHANDISE				
45	SETTING OF ORDERING POINT OF SALES MERCHANDISE	○							ORDERING POINT OF SALES MERCHANDISE				
46	SETTING OF SALES PLAN OF SALES MERCHANDISE	○							WRITTEN SALES PLAN OF SALES MERCHANDISE				
47	SALES REGISTRATION OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES START SLIP OF SALES MERCHANDISE FOR CLIENT				
48	STOP OF SALES OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES STOP SLIP OF SALES MERCHANDISE FOR CLIENT				
49	RESTART OF SALES OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES RESTART SLIP OF SALES MERCHANDISE FOR CLIENT				
50	ABANDONMENT OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES ABANDONMENT SLIP OF SALES MERCHANDISE FOR CLIENT				
51	RESTORATION OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES RESTORATION SLIP OF SALES MERCHANDISE FOR CLIENT				
52	SETTING OF SALES PRICE OF SALES MERCHANDISE FOR EACH CLIENT	○							SALES PRICE LIST OF SALES MERCHANDISE FOR CLIENT				

FIG. 6D

53	SETTING OF QUANTITY DISCOUNT PRICE OF SALES MERCHANDISE FOR EACH CLIENT	○					QUANTITY DISCOUNT PRICE LIST OF SALES MERCHANDISE FOR EACH CLIENT					
54	SETTING OF QUANTITY ALLOTMENT OF SALES MERCHANDISE FOR EACH CLIENT	○					QUANTITY ALLOTMENT TABLE OF SALES MERCHANDISE FOR EACH CLIENT					
55	REGISTRATION OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION	○					REGISTRATION SLIP OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION					
56	STOP OF TRANSACTION FOR BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION	○					STOP SLIP OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION					
57	RESTART OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION	○					RESTART SLIP OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION					
58	ABANDONMENT OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION	○					ABANDONMENT SLIP OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION					
59	RESTORATION OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION	○					RESTORATION SLIP OF BANKING ORGANIZATION ACCOUNT FOR SALES COLLECTION					
60	SETTING OF SALES TAX RATE INFORMATION	○					SALES TAX RATE INFORMATION	○	○	○	○	○
61	REPORT OF POTENTIAL CUSTOMER		○				POTENTIAL CUSTOMER REPORT					
62	CORRECTION REPORT OF POTENTIAL CUSTOMER INFORMATION		○				POTENTIAL CUSTOMER REPORT					
63	CANCELLATION REPORT OF POTENTIAL CUSTOMER INFORMATION		○				POTENTIAL CUSTOMER REPORT					

FIG. 6E

64	PREPARATION AND REPORT OF ESTIMATE								ESTIMATE REGISTER				
65	CORRECTION REPORT OF ESTIMATE								ESTIMATE REGISTER				
66	CANCELLATION REPORT OF ESTIMATE								ESTIMATE REGISTER				
67	REPORT OF POTENTIAL ORDER RECEPTION INFORMATION								POTENTIAL ORDER RECEPTION REGISTER				
68	CORRECTION REPORT OF POTENTIAL ORDER RECEPTION INFORMATION								POTENTIAL ORDER RECEPTION REGISTER				
69	CANCELLATION REPORT OF POTENTIAL ORDER RECEPTION INFORMATION								POTENTIAL ORDER RECEPTION REGISTER				
70	ORDER RECEPTION CONTRACT (RESERVED)								ORDER RECEPTION REGISTER				
71	CORRECTION OF ORDER RECEPTION CONTRACT (RESERVED)								ORDER RECEPTION REGISTER				
72	CANCELLATION OF ORDER RECEPTION CONTRACT (RESERVED)								ORDER RECEPTION REGISTER				
73	ORDER RECEPTION CONTRACT (UNOFFICIAL NOTIFICATION)								ORDER RECEPTION REGISTER				
74	CORRECTION OF ORDER RECEPTION CONTRACT (UNOFFICIAL NOTIFICATION)								ORDER RECEPTION REGISTER				
75	CANCELLATION OF ORDER RECEPTION CONTRACT (UNOFFICIAL NOTIFICATION)								ORDER RECEPTION REGISTER				
76	ORDER RECEPTION CONTRACT (SETTLED)								ORDER RECEPTION REGISTER				

FIG. 6F

77	CORRECTION OF ORDER RECEPTION CONTRACT (SETTLED)								ORDER RECEPTION REGISTER					
78	CANCELLATION OF ORDER RECEPTION CONTRACT (SETTLED)								ORDER RECEPTION REGISTER					
79	INSTRUCTION FOR SHIPMENT OF SALES MERCHANDISE								SHIPMENT INSTRUCTION REGISTER					
80	CORRECTION INSTRU- CTION OF SHIPMENT OF SALES MERCHANDISE								SHIPMENT INSTRUCTION REGISTER					
81	CANCELLATION INSTRU- CTION OF SHIPMENT OF SALES MERCHANDISE								SHIPMENT INSTRUCTION REGISTER					
82	REPORT OF SHIPMENT RESULT OF SALES MERCHANDISE								SHIPMENT REGISTER					
83	CORRECTION REPORT OF SHIPMENT RESULT OF SALES MERCHANDISE								SHIPMENT REGISTER					
84	CANCELLATION REPORT OF SHIPMENT RESULT OF SALES MERCHANDISE								SHIPMENT REGISTER					
85	REPORT OF SHIPMENT RETURN RESULT OF SALES MERCHANDISE								SHIPMENT RETURN REGISTER					
86	CORRECTION REPORT OF SHIPMENT RETURN RESULT OF SALES MERCHANDISE								SHIPMENT RETURN REGISTER					
87	CANCELLATION REPORT OF SHIPMENT RETURN RESULT OF SALES MERCHANDISE								SHIPMENT RETURN REGISTER					
88	ISSUANCE OF BILL								BILLING REGISTER					
89	CORRECTION ISSUANCE OF BILL								BILLING REGISTER					

FIG. 6G

104	CANCELLATION REPORT OF STOCK WASTE OF SALES MERCHANDISE						SALES MERCHANDISE STOCK WASTE REGISTER	○	○	○	○
105	REPORT OF DISPATCH SCHEDULE OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH SCHEDULE TABLE				
106	CORRECTION REPORT OF DISPATCH SCHEDULE OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH SCHEDULE TABLE				
107	CANCELLATION REPORT OF DISPATCH SCHEDULE OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH SCHEDULE TABLE				
108	REPORT OF DISPATCH RESULT OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH REGISTER	○	○	○	○
109	CORRECTION REPORT OF DISPATCH RESULT OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH REGISTER	○	○	○	○
110	CANCELLATION REPORT OF DISPATCH RESULT OF SALES MERCHANDISE				○		SALES MERCHANDISE DISPATCH REGISTER	○	○	○	○
111	SUMMING-UP OF SALES MERCHANDISE STOCK					○	GENERAL LEDGER	○	○	○	○
112	OPENING OF TRANSACTION ACCOUNT OF SUPPLIER	○					SUPPLIER REGISTER	○	○	○	○
113	STOP OF TRANSACTION FOR TRANSACTION ACCOUNT OF SUPPLIER	○					SUPPLIER REGISTER	○	○	○	○
114	RESTART OF TRANSACTION FOR TRANSACTION ACCOUNT OF SUPPLIER	○					SUPPLIER REGISTER	○	○	○	○
115	ABANDONMENT OF TRANS- ACTION FOR TRANSACTION ACCOUNT OF SUPPLIER	○					SUPPLIER REGISTER	○	○	○	○
116	RESTORATION OF TRANS- ACTION FOR TRANSACTION ACCOUNT OF SUPPLIER	○					SUPPLIER REGISTER	○	○	○	○

FIG. 6I

117	SETTING OF ORGANIZATION OF SUPPLIER	○					ORGANIZATION CHART OF SUPPLIER				
118	SETTING OF BILLING PERIOD OF SUPPLIER	○					BILLING PERIOD OF SUPPLIER				
119	SETTING OF DEADLINE OF SUPPLIER	○					DEADLINE OF SUPPLIER				
120	SETTING OF MERCHANTISE ORDER ALLOTMENT AMOUNT OF SUPPLIER	○					SUPPLIER'S MERCHANTISE ORDER ALLOTMENT AMOUNT TABLE				
121	SETTING OF PURCHASE LIMIT AMOUNT OF SUPPLIER	○					SUPPLIER'S PURCHASE LIMIT AMOUNT TABLE				
122	SETTING OF BUSINESS DAY OF SUPPLIER	○					SUPPLIER BUSINESS DAY CALENDAR				
123	SETTING OF DATE OF PAYMENT SCHEDULE OF SUPPLIER	○					SUPPLIER PAYMENT SCHEDULE DATE				
124	REGISTRATION OF PURCHASE OF PURCHASE MERCHANDISE	○					PURCHASE MERCHANTISE START SLIP	○	○	○	○
125	STOP OF PURCHASE OF PURCHASE MERCHANDISE	○					PURCHASE MERCHANTISE PURCHASE STOP SLIP	○	○	○	○
126	RESTART OF PURCHASE OF PURCHASE MERCHANDISE	○					PURCHASE MERCHANTISE RESTART SLIP	○	○	○	○
127	ABANDONMENT OF PURCHASE OF PURCHASE MERCHANDISE	○					PURCHASE MERCHANTISE ABANDONMENT SLIP	○	○	○	○
128	RESTORATION OF PURCHASE OF PURCHASE MERCHANDISE	○					PURCHASE MERCHANTISE RESTORATION SLIP	○	○	○	○
129	SETTING OF TIME REQUIRED FOR SUPPLYING PURCHASE MERCHANDISE	○					TIME REQUIRED FOR SUPPLYING PURCHASE MERCHANDISE				
130	SETTING OF STOCK LIMIT OF PURCHASE MERCHANDISE	○					STOCK LIMIT OF PURCHASE MERCHANDISE				

FIG. 6J

131	SETTING OF APPROPRIATE STOCK OF PURCHASE MERCHANDISE	○							APPROPRIATE STOCK OF PURCHASE MERCHANDISE				
132	SETTING OF PURCHASE PRICE OF PURCHASE MERCHANDISE	○							PURCHASE MERCHANDISE PURCHASE PRICE REGISTER				
133	SETTING OF ORDERING POINT MERCHANDISE	○							ORDERING POINT OF PURCHASE MERCHANDISE				
134	SETTING OF QUANTITY DISCOUNT PRICE OF PURCHASE MERCHANDISE	○							PURCHASE MERCHANDISE QUANTITY DISCOUNT PRICE LIST				
135	SETTING OF SUPPLY LOT OF PURCHASE MERCHANDISE	○							SUPPLY LOT OF PURCHASE MERCHANDISE				
136	SETTING OF RECEPTION LOT OF PURCHASE MERCHANDISE	○							RECEPTION LOT OF PURCHASE MERCHANDISE				
137	SETTING OF PURCHASE PLAN OF PURCHASE MERCHANDISE	○							PURCHASE SCHEDULE OF PURCHASE MERCHANDISE				
138	REGISTRATION OF PURCHASE OF PURCHASE OF EACH SUPPLIER	○							REGISTER OF SUPPLIER OF PURCHASE MERCHANDISE				
139	STOP OF PURCHASE OF PURCHASE MERCHANDISE OF EACH SUPPLIER	○							REGISTER OF SUPPLIER OF PURCHASE MERCHANDISE				
140	RESTART OF PURCHASE OF PURCHASE OF EACH SUPPLIER	○							REGISTER OF SUPPLIER OF PURCHASE MERCHANDISE				
141	ABANDONMENT OF PURCHASE OF PURCHASE OF EACH SUPPLIER	○							REGISTER OF SUPPLIER OF PURCHASE MERCHANDISE				

FIG. 6K

142	RESTORATION OF PURCHASE PRICE OF EACH SUPPLIER	○					PURCHASE RESTORATION SLIP FOR SUPPLIER OF PURCHASE MERCHANDISE	REGISTER OF SUPPLIER OF PURCHASE MERCHANDISE			
143	SETTING OF PURCHASE PRICE OF PURCHASE MERCHANDISE OF EACH SUPPLIER	○					PURCHASE PRICE LIST OF PURCHASE MERCHANDISE OF SUPPLIER	PURCHASE PRICE LIST OF PURCHASE MERCHANDISE OF SUPPLIER			
144	SETTING OF QUANTITY DISCOUNT PRICE OF PURCHASE MERCHANDISE OF EACH SUPPLIER	○					QUANTITY DISCOUNT PRICE LIST OF PURCHASE MERCHANDISE OF SUPPLIER	QUANTITY DISCOUNT PRICE LIST OF PURCHASE MERCHANDISE OF SUPPLIER			
145	SETTING OF PURCHASE QUANTITY ALLOTMENT OF PURCHASE MERCHANDISE OF SUPPLIER	○					PURCHASE QUANTITY ALLOTMENT TABLE OF PURCHASE MERCHANDISE OF SUPPLIER	PURCHASE QUANTITY ALLOTMENT TABLE OF PURCHASE MERCHANDISE OF SUPPLIER			
146	REGISTRATION OF PAYMENT TRANSACTION FOR BANKING ORGANIZATION ACCOUNT OF SUPPLIER	○					BANKING ORGANIZATION ACCOUNT REGISTRATION SLIP OF SUPPLIER PAYMENT	BANKING ORGANIZATION ACCOUNT REGISTER OF SUPPLIER PAYMENT			
147	STOP OF PAYMENT TRANSACTION FOR BANKING ORGANIZATION ACCOUNT OF SUPPLIER	○					BANKING ORGANIZATION ACCOUNT STOP SLIP OF SUPPLIER PAYMENT	BANKING ORGANIZATION ACCOUNT REGISTER OF SUPPLIER PAYMENT			
148	RESTART OF PAYMENT TRANSACTION FOR BANKING ORGANIZATION ACCOUNT	○					BANKING ORGANIZATION ACCOUNT RESTART SLIP OF SUPPLIER PAYMENT	BANKING ORGANIZATION ACCOUNT REGISTER OF SUPPLIER PAYMENT			
149	ABANDONMENT OF PAYMENT TRANSACTION FOR BANKING ORGANIZATION ACCOUNT	○					BANKING ORGANIZATION ACCOUNT ABANDONMENT SLIP OF SUPPLIER PAYMENT	BANKING ORGANIZATION ACCOUNT REGISTER OF SUPPLIER PAYMENT			
150	RESTORATION OF PAYMENT TRANSACTION FOR BANKING ORGANIZATION ACCOUNT	○					BANKING ORGANIZATION ACCOUNT RESTORATION SLIP OF SUPPLIER PAYMENT	BANKING ORGANIZATION ACCOUNT REGISTER OF SUPPLIER PAYMENT			
151	ISSUANCE OF WRITTEN ESTIMATE REQUEST		○				WRITTEN ESTIMATE REQUEST	WRITTEN ESTIMATE REQUEST REGISTER			

FIG. 6L

166	INSTRUCTION FOR WAREHOUSING OF PURCHASE MERCHANDISE CORRECTION								WAREHOUSING INSTRUCTION REGISTER				
167	INSTRUCTION OF WAREHOUSING OF PURCHASE MERCHANDISE								WAREHOUSING INSTRUCTION REGISTER				
168	CANCELLATION INSTRUCTION OF WAREHOUSING OF PURCHASE MERCHANDISE								WAREHOUSING INSTRUCTION REGISTER				
169	REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								WAREHOUSING REGISTER				
170	CORRECTION REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								WAREHOUSING REGISTER				
171	CANCELLATION REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								WAREHOUSING REGISTER				
172	REPORT OF WAREHOUSING RETURN RESULT OF PURCHASE MERCHANDISE								WAREHOUSING RETURN REGISTER				
173	CORRECTION REPORT OF WAREHOUSING RETURN RESULT OF PURCHASE MERCHANDISE								WAREHOUSING RETURN REGISTER				
174	CANCELLATION REPORT OF WAREHOUSING RETURN RESULT OF PURCHASE MERCHANDISE								WAREHOUSING RETURN REGISTER				
175	REPORT OF STOCKING BILLING CONFIRMATION								WRITTEN STOCKING BILLING CONFIRMATION				
176	CORRECTION REPORT OF STOCKING BILLING CONFIRMATION								WRITTEN STOCKING BILLING CONFIRMATION				

FIG. 6N

177	CANCELLATION REPORT OF STOCKING BILLING CONFIRMATION								STOCKING BILL	WRITTEN STOCKING BILLING CONFIRMATION			
178	STOCKING SUMMING-UP								STOCKING SUMMING-UP SLIP	GENERAL LEDGER			
179	PAYMENT SUMMING-UP								PAYMENT SUMMING-UP SLIP	GENERAL LEDGER			
180	REPORT OF WAREHOUSING SCHEDULE OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE SLIP	PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE TABLE			
181	CORRECTION REPORT OF WAREHOUSING SCHEDULE OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE CORRECTION SLIP	PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE TABLE			
182	CANCELLATION REPORT OF WAREHOUSING SCHEDULE OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE CANCELLATION SLIP	PURCHASE MERCHAN- DISE WAREHOUSING SCHEDULE TABLE			
183	REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING SLIP	PURCHASE MERCHAN- DISE WAREHOUSING REGISTER			
184	CORRECTION REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING CORRECTION SLIP	PURCHASE MERCHAN- DISE WAREHOUSING REGISTER			
185	CANCELLATION REPORT OF WAREHOUSING RESULT OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE WAREHOUSING CANCELLATION SLIP	PURCHASE MERCHAN- DISE WAREHOUSING REGISTER			
186	REPORT OF INVENTORY OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE INVENTORY SLIP	PURCHASE MERCHAN- DISE INVENTORY REGISTER			
187	CORRECTION REPORT OF INVENTORY OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE INVENTORY CORRECTION SLIP	PURCHASE MERCHAN- DISE INVENTORY REGISTER			
188	CANCELLATION REPORT OF INVENTORY OF PURCHASE MERCHANDISE								PURCHASE MERCHAN- DISE INVENTORY CANCELLATION SLIP	PURCHASE MERCHAN- DISE INVENTORY REGISTER			

FIG. 60

189	REPORT OF STOCK WASTE OF PURCHASE MERCHANDISE						PURCHASE MERCHANDISE STOCK WASTE REGISTER	○	○	○	○
190	CORRECTION REPORT OF STOCK WASTE OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE STOCK WASTE REGISTER	○	○	○	○
191	CANCELLATION REPORT OF STOCK WASTE OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE STOCK WASTE REGISTER	○	○	○	○
192	REPORT OF DISPATCH SCHEDULE OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH SCHEDULE TABLE				
193	CORRECTION REPORT OF DISPATCH SCHEDULE OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH SCHEDULE TABLE				
194	CANCELLATION REPORT OF DISPATCH SCHEDULE OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH SCHEDULE TABLE				
195	REPORT OF DISPATCH RESULT OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH REGISTER	○	○	○	○
196	CORRECTION REPORT OF DISPATCH RESULT OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH REGISTER	○	○	○	○
197	CANCELLATION REPORT OF DISPATCH RESULT OF PURCHASE MERCHANDISE					○	PURCHASE MERCHANDISE DISPATCH REGISTER	○	○	○	○
198	INVENTORY OF PURCHASE MERCHANDISE					○	GENERAL LEDGER	○	○	○	○
199	REGISTRATION OF PRODUCTION	○					PRODUCT REGISTER	○	○	○	○
200	STOP OF PRODUCTION OF PRODUCT	○					PRODUCT REGISTER	○	○	○	○
201	RESTART OF PRODUCTION OF PRODUCT	○					PRODUCT REGISTER	○	○	○	○

FIG. 6P

202	ABANDONMENT OF PRODUCTION OF PRODUCT	○						PRODUCT PRODUCTION ABANDONMENT SLIP	PRODUCT REGISTER	○	○	○	○
203	RESTORATION OF PRODUCTION OF PRODUCT	○						PRODUCT PRODUCTION RESTORATION SLIP	PRODUCT REGISTER	○	○	○	○
204	REPORT OF PRODUCTION PLAN	○						PRODUCTION PLAN TABLE	PRODUCTION PLAN TABLE				
205	CORRECTION REPORT OF PRODUCTION PLAN	○						PRODUCTION PLAN TABLE	PRODUCTION PLAN TABLE				
206	CANCELLATION REPORT OF PRODUCTION PLAN	○						PRODUCTION PLAN TABLE	PRODUCTION PLAN TABLE				
207	REGISTRATION OF MANUFACTURING PROCESS	○						MANUFACTURING PROCESS CHART	MANUFACTURING PROCESS CHART		○	○	○
208	CORRECTION OF MANUFACTURING PROCESS	○						MANUFACTURING PROCESS CHART	MANUFACTURING PROCESS CHART		○	○	○
209	CANCELLATION OF MANUFACTURING PROCESS	○						MANUFACTURING PROCESS CHART	MANUFACTURING PROCESS CHART		○	○	○
210	REPORT OF WAREHOUSING SCHEDULE OF MATERIAL						○	MATERIAL WAREHOUSING SCHEDULE SLIP	MATERIAL WAREHOUSING SCHEDULE TABLE				
211	CORRECTION REPORT OF WAREHOUSING SCHEDULE OF MATERIAL						○	MATERIAL WAREHOUSING SCHEDULE CORRECTION SLIP	MATERIAL WAREHOUSING SCHEDULE TABLE				
212	CANCELLATION REPORT OF WAREHOUSING SCHEDULE OF MATERIAL						○	MATERIAL WAREHOUSING SCHEDULE CANCELLATION SLIP	MATERIAL WAREHOUSING SCHEDULE TABLE				
213	REPORT OF WAREHOUSING RESULT OF MATERIAL						○	MATERIAL WAREHOUSING SLIP	MATERIAL WAREHOUSING REGISTER	○	○	○	○
214	CORRECTION REPORT OF WAREHOUSING RESULT OF MATERIAL						○	MATERIAL WAREHOUSING CORRECTION SLIP	MATERIAL WAREHOUSING REGISTER	○	○	○	○
215	CANCELLATION REPORT OF WAREHOUSING RESULT OF MATERIAL						○	MATERIAL WAREHOUSING CANCELLATION SLIP	MATERIAL WAREHOUSING REGISTER	○	○	○	○
216	REPORT OF INVENTORY OF MATERIAL						○	MATERIAL INVENTORY SLIP	MATERIAL INVENTORY REGISTER	○	○	○	○
217	CORRECTION REPORT OF INVENTORY OF MATERIAL						○	MATERIAL INVENTORY CORRECTION SLIP	MATERIAL INVENTORY REGISTER	○	○	○	○

FIG. 6Q

218	CANCELLATION REPORT OF INVENTORY OF MATERIAL							MATERIAL INVENTORY CANCELLATION SLIP	MATERIAL INVENTORY REGISTER				
219	REPORT OF STOCK WASTE OF MATERIAL							MATERIAL STOCK WASTE SLIP	MATERIAL STOCK WASTE REGISTER				
220	CORRECTION REPORT OF STOCK WASTE OF MATERIAL							MATERIAL STOCK WASTE CORRECTION SLIP	MATERIAL STOCK WASTE REGISTER				
221	CANCELLATION REPORT OF STOCK WASTE OF MATERIAL							MATERIAL STOCK WASTE CANCELLATION SLIP	MATERIAL STOCK WASTE REGISTER				
222	REPORT OF DISPATCH SCHEDULE OF MATERIAL							MATERIAL DISPATCH SCHEDULE SLIP	MATERIAL DISPATCH SCHEDULE TABLE				
223	CORRECTION REPORT OF DISPATCH SCHEDULE OF MATERIAL							MATERIAL DISPATCH SCHEDULE CORRECTION SLIP	MATERIAL DISPATCH SCHEDULE TABLE				
224	CANCELLATION REPORT OF DISPATCH SCHEDULE OF MATERIAL							MATERIAL DISPATCH SCHEDULE CANCELLATION SLIP	MATERIAL DISPATCH SCHEDULE TABLE				
225	REPORT OF DISPATCH RESULT OF MATERIAL							MATERIAL DISPATCH SLIP	MATERIAL DISPATCH REGISTER				
226	CORRECTION REPORT OF DISPATCH RESULT OF MATERIAL							MATERIAL DISPATCH CORRECTION SLIP	MATERIAL DISPATCH REGISTER				
227	CANCELLATION REPORT OF DISPATCH RESULT OF MATERIAL							MATERIAL DISPATCH CANCELLATION SLIP	MATERIAL DISPATCH REGISTER				
228	REPORT OF WAREHOUSING SCHEDULE OF MATERIAL							MATERIAL WAREHOUSING SCHEDULE SLIP	MATERIAL WAREHOUSING SCHEDULE REGISTER				
229	CORRECTION REPORT OF WAREHOUSING SCHEDULE OF MATERIAL							MATERIAL WAREHOUSING SCHEDULE CORRECTION SLIP	MATERIAL WAREHOUSING SCHEDULE REGISTER				
230	CANCELLATION REPORT OF WAREHOUSING SCHEDULE OF MATERIAL							MATERIAL WAREHOUSING SCHEDULE CANCELLATION SLIP	MATERIAL WAREHOUSING SCHEDULE REGISTER				
231	REPORT OF WAREHOUSING RESULT OF MATERIAL							MATERIAL WAREHOUSING SLIP	MATERIAL WAREHOUSING REGISTER				

FIG. 6R

261	REPORT OF DISPATCH RESULT OF PARTS								PARTS DISPATCH SLIP		PARTS DISPATCH REGISTER					
262	CORRECTION REPORT OF DISPATCH RESULT OF PARTS								PARTS DISPATCH CORRECTION SLIP		PARTS DISPATCH REGISTER					
263	CANCELLATION REPORT OF DISPATCH RESULT OF PARTS								PARTS DISPATCH CANCELLATION SLIP		PARTS DISPATCH REGISTER					
264	REPORT OF PROCESS WAREHOUSING SCHEDULE OF MATERIAL								MATERIAL PROCESS WAREHOUSING SCHEDULE SLIP		MATERIAL PROCESS WAREHOUSING SCHEDULE TABLE					
265	CORRECTION REPORT OF PROCESS WAREHOUSING SCHEDULE OF MATERIAL								MATERIAL PROCESS WAREHOUSING SCHED- ULE CORRECTION SLIP		MATERIAL PROCESS WAREHOUSING SCHEDULE TABLE					
266	CANCELLATION REPORT OF PROCESS WAREHOUSING SCHEDULE OF MATERIAL								MATERIAL PROCESS WAREHOUSING SCHEDULE CANCELLATION SLIP		MATERIAL PROCESS WAREHOUSING SCHEDULE TABLE					
267	REPORT OF PROCESS WAREHOUSING RESULT OF MATERIAL								MATERIAL PROCESS WAREHOUSING SLIP		MATERIAL PROCESS WAREHOUSING REGISTER					
268	CORRECTION REPORT OF PROCESS WAREHOUSING RESULT OF MATERIAL								MATERIAL PROCESS WAREHOUSING CORRECTION SLIP		MATERIAL PROCESS WAREHOUSING REGISTER					
269	CANCELLATION REPORT OF PROCESS WAREHOUSING RESULT OF MATERIAL								MATERIAL PROCESS WAREHOUSING CANCELLATION SLIP		MATERIAL PROCESS WAREHOUSING REGISTER					
270	REPORT OF PROCESS INVENTORY OF MATERIAL								MATERIAL PROCESS INVENTORY SLIP		MATERIAL PROCESS INVENTORY REGISTER					
271	CORRECTION REPORT OF PROCESS INVENTORY OF MATERIAL								MATERIAL PROCESS INVENTORY CORRECTION SLIP		MATERIAL PROCESS INVENTORY REGISTER					
272	CANCELLATION REPORT OF PROCESS INVENTORY OF MATERIAL								MATERIAL PROCESS INVENTORY CANCELLATION SLIP		MATERIAL PROCESS INVENTORY REGISTER					
273	REPORT OF PROCESS STOCK WASTE OF MATERIAL								MATERIAL PROCESS STOCK WASTE SLIP		MATERIAL PROCESS STOCK WASTE REGISTER					

FIG. 6U

287	CANCELLATION REPORT OF PROCESS STOCK WASTER OF MATERIAL							MATERIAL PROCESS STOCK WASTE CANCELLATION SLIP	MATERIAL PROCESS STOCK WASTE REGISTER	○	○	○	○
288	REPORT OF PROCESS WAREHOUSING SCHEDULE OF PARTS							PARTS PROCESS WAREHOUSING SCHEDULE SLIP	PARTS PROCESS WAREHOUSING SCHEDULE TABLE				
289	CORRECTION REPORT OF PROCESS WAREHOUSING SCHEDULE OF PARTS							PARTS PROCESS WAREHOUSING SCHEDULE CORRECTION SLIP	PARTS PROCESS WAREHOUSING SCHEDULE TABLE				
290	CANCELLATION REPORT OF PROCESS WAREHOUSING SCHEDULE OF PARTS							PARTS PROCESS WAREHOUSING SCHEDULE CANCELLATION SLIP	PARTS PROCESS WAREHOUSING SCHEDULE TABLE				
291	REPORT OF PROCESS WAREHOUSING RESULT OF PARTS							PARTS PROCESS WAREHOUSING SLIP	PARTS PROCESS WAREHOUSING REGISTER	○	○	○	○
292	CORRECTION REPORT OF PROCESS WAREHOUSING RESULT OF PARTS							PARTS PROCESS WAREHOUSING CORRECTION SLIP	PARTS PROCESS WAREHOUSING REGISTER	○	○	○	○
293	CANCELLATION REPORT OF PROCESS WAREHOUSING RESULT OF PARTS							PARTS PROCESS WAREHOUSING CANCELLATION SLIP	PARTS PROCESS WAREHOUSING REGISTER	○	○	○	○
294	REPORT OF PROCESS INVENTORY OF PARTS							PARTS PROCESS INVENTORY SLIP	PARTS PROCESS INVENTORY REGISTER	○	○	○	○
295	CORRECTION REPORT OF PROCESS INVENTORY OF PARTS							PARTS PROCESS INVENTORY CORRECTION SLIP	PARTS PROCESS INVENTORY REGISTER	○	○	○	○
296	CANCELLATION REPORT OF PROCESS INVENTORY OF PARTS							PARTS PROCESS INVENTORY CANCELLATION SLIP	PARTS PROCESS INVENTORY REGISTER	○	○	○	○
297	REPORT OF PROCESS STOCK WASTE OF PARTS							PARTS PROCESS STOCK WASTE SLIP	PARTS PROCESS STOCK WASTE REGISTER	○	○	○	○
298	CORRECTION REPORT OF PROCESS STOCK WASTE OF PARTS							PARTS PROCESS STOCK WASTE CORRECTION SLIP	PARTS PROCESS STOCK WASTE REGISTER	○	○	○	○

FIG. 6W

299	CANCELLATION REPORT OF PROCESS STOCK WASTE OF PARTS								PARTS PROCESS STOCK WASTE REGISTER	○	○	○	○
300	REPORT OF PROCESS DISPATCH SCHEDULE OF PRODUCT							○	PRODUCT PROCESS DISPATCH SCHEDULE TABLE				
301	CORRECTION REPORT OF PROCESS DISPATCH SCHEDULE OF PRODUCT							○	PRODUCT PROCESS DISPATCH SCHEDULE TABLE				
302	CANCELLATION REPORT OF PROCESS DISPATCH SCHEDULE OF PRODUCT							○	PRODUCT PROCESS DISPATCH SCHEDULE TABLE				
303	REPORT OF PROCESS DISPATCH RESULT OF PRODUCT							○	PRODUCT PROCESS DISPATCH REGISTER	○	○	○	○
304	CORRECTION REPORT OF PROCESS DISPATCH RESULT OF PRODUCT							○	PRODUCT PROCESS DISPATCH REGISTER	○	○	○	○
305	CANCELLATION REPORT OF PROCESS DISPATCH RESULT OF PRODUCT							○	PRODUCT PROCESS DISPATCH REGISTER	○	○	○	○
306	REPORT OF PRODUCTION RESULT							○	PRODUCTION RESULT REGISTER				
307	CORRECTION REPORT OF PRODUCTION RESULT							○	PRODUCTION RESULT REGISTER				
308	CANCELLATION REPORT OF PRODUCTION RESULT							○	PRODUCTION RESULT REGISTER				
309	REPORT OF WAREHOUSING SCHEDULE OF PRODUCT							○	PRODUCT WAREHOUSING SCHEDULE TABLE				
310	CORRECTION REPORT OF WAREHOUSING SCHEDULE OF PRODUCT							○	PRODUCT WAREHOUSING SCHEDULE TABLE				
311	CANCELLATION REPORT OF WAREHOUSING SCHEDULE OF PRODUCT							○	PRODUCT WAREHOUSING SCHEDULE TABLE				
312	REPORT OF WAREHOUSING RESULT OF PRODUCT							○	PRODUCT WAREHOUSING REGISTER	○	○	○	○

FIG. 6X

313	CORRECTION REPORT OF WAREHOUSING RESULT OF PRODUCT							PRODUCT WAREHOUSING CORRECTION SLIP	PRODUCT WAREHOUSING REGISTER					
314	CANCELLATION REPORT OF WAREHOUSING RESULT OF PRODUCT							PRODUCT WAREHOUSING CANCELLATION SLIP	PRODUCT WAREHOUSING REGISTER					
315	REPORT OF INVENTORY OF PRODUCT							PRODUCT INVENTORY SLIP	PRODUCT INVENTORY REGISTER					
316	CORRECTION REPORT OF INVENTORY OF PRODUCT							PRODUCT INVENTORY CORRECTION SLIP	PRODUCT INVENTORY REGISTER					
317	CANCELLATION REPORT OF INVENTORY OF PRODUCT							PRODUCT INVENTORY CANCELLATION SLIP	PRODUCT INVENTORY REGISTER					
318	REPORT OF STOCK WASTE OF PRODUCT							PRODUCT STOCK WASTE SLIP	PRODUCT STOCK WASTE REGISTER					
319	CORRECTION REPORT OF STOCK WASTE OF PRODUCT							PRODUCT STOCK WASTE CORRECTION SLIP	PRODUCT STOCK WASTE REGISTER					
320	CANCELLATION REPORT OF STOCK WASTE OF PRODUCT							PRODUCT STOCK WASTE CANCELLATION SLIP	PRODUCT STOCK WASTE REGISTER					
321	REPORT OF DISPATCH SCHEDULE OF PRODUCT							PRODUCT DISPATCH SCHEDULE SLIP	PRODUCT DISPATCH SCHEDULE TABLE					
322	CORRECTION REPORT OF DISPATCH SCHEDULE OF PRODUCT							PRODUCT DISPATCH SCHEDULE CORRECTION SLIP	PRODUCT DISPATCH SCHEDULE TABLE					
323	CANCELLATION REPORT OF DISPATCH SCHEDULE OF PRODUCT							PRODUCT DISPATCH SCHEDULE CANCELLATION SLIP	PRODUCT DISPATCH SCHEDULE TABLE					
324	REPORT OF DISPATCH RESULT OF PRODUCT							PRODUCT DISPATCH SLIP	PRODUCT DISPATCH REGISTER					
325	CORRECTION REPORT OF DISPATCH RESULT OF PRODUCT							PRODUCT DISPATCH CORRECTION SLIP	PRODUCT DISPATCH REGISTER					
326	CANCELLATION REPORT OF DISPATCH RESULT OF PRODUCT							PRODUCT DISPATCH CANCELLATION SLIP	PRODUCT DISPATCH REGISTER					

FIG. 6Y

327	RAW MATERIAL INVENTORY								RAW MATERIAL INVENTORY SLIP	GENERAL LEDGER				
328	MATERIAL INVENTORY								MATERIAL INVENTORY SLIP	GENERAL LEDGER				
329	PARTS INVENTORY								PARTS INVENTORY SLIP	GENERAL LEDGER				
330	PROCESS RAW MATERIAL INVENTORY								PROCESS RAW MATERIAL INVENTORY SLIP	GENERAL LEDGER				
331	PROCESS MATERIAL INVENTORY								PROCESS MATERIAL INVENTORY	GENERAL LEDGER				
332	PROCESS PARTS INVENTORY								PROCESS PARTS INVENTORY	GENERAL LEDGER				
333	PRODUCT INVENTORY								PRODUCT INVENTORY SLIP	GENERAL LEDGER				

FIG. 6Z

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDER RECEPTION)

No.	BUSINESS OPERATION PROCESSING RULE	BUSINESS OPERATION PROCESS RULE LOGIC
1	CONFIRMATION OF CLIENT	CHECK OF OPENING OF TRANSACTION ACCOUNT OF CLIENT
2	PROPRIETY OF BUSINESS DAY OF CLIENT	CHECK OF TRANSACTABLE DAY OF CLIENT
3	CONFIRMATION OF ORGANIZATION OF CLIENT	CHECK OF COLLECTION SCHEDULE DATE OF MERCHANDISE SALES AMOUNT OF CLIENT
4	CONFIRMATION OF COLLECTION SCHEDULE DATE OF CLIENT	CHECK OF COLLECTION SCHEDULE DATE OF MERCHANDISE SALES AMOUNT FROM CLIENT
5	CONFIRMATION OF MERCHANDISE FOR CLIENT	CONFIRMATION OF CLIENT AND MERCHANDISE FOR CLIENT
6	CONFIRMATION OF MERCHANDISE ORDER RECEPTION ALLOTMENT OF CLIENT	CONFIRMATION OF CLIENT AND MERCHANDISE SALES ALLOTMENT QUANTITY FOR CLIENT
7	CONFIRMATION AND PROPRIETY OF MERCHANDISE QUANTITY DISCOUNT PRICE FOR CLIENT	CHECK OF CLIENT AND MERCHANDISE QUANTITY DISCOUNT PRICE FOR CLIENT
8	CONFIRMATION OF BILLING PERIOD OF CLIENT	BILLING DEADLINE OF SALES TRANSACTION WITH CLIENT
9	BILLING DEADLINE OF CLIENT	BILLING DEADLINE OF SALES TRANSACTION WITH CLIENT
10	CONFIRMATION OF CREDIT AMOUNT OF CLIENT AND PROPRIETY OF SALES AMOUNT	AMOUNT OF SALES LIMIT FOR EACH CLIENT
11	CONFIRMATION OF DELIVERY DESTINATION OF CLIENT	CONFIRMATION OF DELIVERY DESTINATION OF CLIENT
12	CONFIRMATION OF SALES MERCHANDISE	SALES MERCHANDISE AND SALES PERIOD
13	CONFIRMATION AND PROPRIETY OF PRICE OF SALES MERCHANDISE	PRICE OF SALES MERCHANDISE AND ITS APPLICATION PERIOD
14	CONFIRMATION AND PROPRIETY OF QUANTITY PRICE OF SALES MERCHANDISE	SALES PRICE OF SALES MERCHANDISE FOR EACH SALES QUANTITY
15	CONFIRMATION OF GOOD BUY RELATED TO SALES MERCHANDISE	GOOD BUY RELATED TO SALES MERCHANDISE
16	CONFIRMATION OF SUBSTITUTE OF SALES MERCHANDISE	MERCHANDISE SUBSTITUTABLE FOR SALES MERCHANDISE
17	CONFIRMATION OF MERCHANDISE SIMILAR TO SALES MERCHANDISE	MERCHANDISE SIMILAR TO SALES MERCHANDISE
18	STRATEGIC STOCK OF SALES MERCHANDISE	DISCLOSED STOCK AS STRATEGIC STOCK OF SALES MERCHANDISE
19	CONFIRMATION OF SALES LOT OF SALES MERCHANDISE AND PROPRIETY OF SALES QUANTITY	MINIMUM UNIT OF SALES QUANTITY OF SALES MERCHANDISE

FIG. 7A-1

	CONFIRMATION OF DELIVERY LOT OF SALES MERCHANDISE AND PROPRIETY OF DELIVERY QUANTITY	MINIMUM UNIT OF DELIVERY QUANTITY OF SALES MERCHANDISE
20	CONFIRMATION OF REQUIRED DELIVERY TIME OF SALES MERCHANDISE AND PROPRIETY OF DELIVERY DATE	TIME AND DAYS REQUIRED FROM ORDER RECEPTION OF SALES MERCHANDISE TO DELIVERY
21	CONFIRMATION OF ORDERING POINT OF SALES MERCHANDISE AND PROPRIETY OF REGULAR ORDER	STOCK FOR DETERMINING ORDERING TIME OF REGULAR ORDER FOR SALES MERCHANDISE
22	CONFIRMATION OF SALES PLAN OF SALES MERCHANDISE	PLAN OF SALES PERIOD, QUANTITY, AND PROFIT OF SALES MERCHANDISE
23	CONFIRMATION OF STOCK LIMIT OF SALES MERCHANDISE AND PROPRIETY OF STOCK	UPPER LIMIT QUANTITY OF STOCK OF SALES MERCHANDISE
24	CONFIRMATION OF APPROPRIATE STOCK OF SALES MERCHANDISE AND PROPRIETY OF STOCK	APPROPRIATE QUANTITY OF STOCK OF SALES MERCHANDISE
25	CONFIRMATION OF BANKING ORGANIZATION ACCOUNT FOR SALES AMOUNT COLLECTION	SETTING OF BANKING ORGANIZATION ACCOUNT FOR SALES AMOUNT COLLECTION
26	CONFIRMATION OF SALES AUTHORITY OF PERSON IN CHARGE AND PROPRIETY OF SALES AMOUNT	UPPER LIMIT AMOUNT OF SALES AUTHORITY OF PERSON IN CHARGE
27	CONFIRMATION OF CLIENT OF PERSON IN CHARGE	CONFIRMATION OF CLIENT OF PERSON IN CHARGE
28	CONFIRMATION OF MERCHANDISE OF PERSON IN CHARGE	CONFIRMATION OF MERCHANDISE OF PERSON IN CHARGE
29	CONFIRMATION OF CLIENT OF ORGANIZATION	CHECK OF TRANSACTION ACCOUNT OPENING OF CLIENT OF ORGANIZATION IN CHARGE
30	CONFIRMATION OF CLIENT ORGANIZATION OF	CHECK OF TRANSACTION ACCOUNT OPENING OF CLIENT ORGANIZATION OF GANIZATION IN CHARGE
31		

FIG. 7A-2

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDER RECEPTION)

No.	BUSINESS OPERATION PROCESSING RULE APPLICATION ITEM	ITEM CHECK					ARITHMETIC OPERATION / EDITING
		UPPER LIMIT CHECK APPLICATION ITEM	LOWER LIMIT CHECK APPLICATION ITEM	UNIT CHECK APPLICATION ITEM	PRESENCE CHECK APPLICATION ITEM	TOTAL AMOUNT / COMPARISON CHECK APPLICATION ITEM	
1	CLIENT	—	—	—	CLIENT	—	—
2	DATE OF SHIPMENT, DATE OF DELIVERY, ETC.	—	—	—	CLIENT	—	—
3	CLIENT ORGANIZATION	—	—	—	CLIENT, CLIENT ORGANIZATION	—	—
4	COLLECTION SCHEDULE DATE	—	—	—	CLIENT	—	—
5	SALES MERCHANDISE	—	—	—	CLIENT	—	—
6	SALES QUANTITY	—	SALES QUANTITY	—	CLIENT	—	—
7	SALES AMOUNT	—	—	—	CLIENT, MERCHANDISE, SALES QUANTITY	—	—
8	TURNOVER	TURNOVER DATE	TURNOVER DATE	—	CLIENT	—	—
9	BILLING DATE	BILLING DATE	—	—	CLIENT	—	—
10	ORDER RECEPTION AMOUNT	CREDIT AMOUNT	—	—	CLIENT	TOTAL AMOUNT OF ORDER RECEIVED WITHIN PERIOD	—
11	DELIVERY DESTINATION	—	—	—	CLIENT, DELIVERY DESTINATION	—	—

FIG. 7B-1

26	BANKING ORGANIZATION, BRANCH, ACCOUNT	—	—	—	—	BANKING ORGANIZATION, BRANCH, ACCOUNT	STOCK OF SALES MERCHANDISE	—	—
27	SALES AMOUNT	SALES AMOUNT OF PERSON IN CHARGE	—	—	—	PERSON IN CHARGE	—	—	—
28	SALES DESTINATION	—	—	—	—	PERSON IN CHARGE, CLIENT	—	—	—
29	SALES MERCHANDISE	—	—	—	—	PERSON IN CHARGE, MERCHANDISE	—	—	—
30	CLIENT	—	—	—	—	ORGANIZATION, CLIENT	—	—	—
31	ORGANIZATION, CLIENT	—	—	—	—	ORGANIZATION, CLIENT, CLIENT ORGANIZATION	—	—	—

FIG. 7B-3

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDERING)

No.	BUSINESS OPERATION PROCESSING RULE	BUSINESS OPERATION PROCESSING RULE LOGIC
1	CONFIRMATION OF PURCHASE MERCHANDISE	CHECK OF PURCHASABLE STATE OF PURCHASE MERCHANDISE
2	CONFIRMATION OF REFERENCE PRICE OF PURCHASE MERCHANDISE AND PROPRIETY OF PURCHASE PRICE	CHECK OF PURCHASE REFERENCE PRICE OF PURCHASE MERCHANDISE
3	CONFIRMATION OF PURCHASE PLAN OF PURCHASE MERCHANDISE	CONFIRMATION OF PURCHASE PERIOD, QUANTITY, AMOUNT PLAN OF PURCHASE MERCHANDISE
4	CONFIRMATION OF UPPER LIMIT PURCHASE PRICE OF PURCHASE MERCHANDISE	CHECK OF UPPER LIMIT PURCHASE PRICE OF PURCHASE MERCHANDISE
5	CONFIRMATION STOCK LIMIT OF PURCHASE MERCHANDISE AND PROPRIETY OF STOCK	UPPER LIMIT STOCK QUANTITY OF PURCHASE MERCHANDISE
6	CONFIRMATION OF APPROPRIATE STOCK OF PURCHASE MERCHANDISE AND PROPRIETY OF STOCK	CHECK OF APPROPRIATE STOCK OF PURCHASE MERCHANDISE
7	CONFIRMATION OF REQUIRED SUPPLY TIME OF PURCHASE MERCHANDISE AND PROPRIETY OF DELIVERY PERIOD	TIME AND DAYS REQUIRED FROM ORDER OF PURCHASE MERCHANDISE TO ITS RECEPTION
8	CONFIRMATION OF RECEPTION LOT OF PURCHASE MERCHANDISE AND PROPRIETY OF THE NUMBER OF DELIVERIES	CHECK OF MINIMUM UNIT OF RECEPTION QUANTITY OF PURCHASE MERCHANDISE
9	CONFIRMATION OF SUPPLY LOT OF PURCHASE MERCHANDISE AND PROPRIETY OF THE NUMBER OF PURCHASES	CHECK OF MINIMUM UNIT OF PURCHASE QUANTITY OF PURCHASE MERCHANDISE
10	CONFIRMATION OF REQUIRED SUPPLY TIME OF PURCHASE MERCHANDISE AND PROPRIETY OF DELIVERY DATE	TIME AND DAYS REQUIRED FROM ORDER OF PURCHASE MERCHANDISE TO RECEPTION
11	CONFIRMATION OF ORDERING POINT PURCHASE MERCHANDISE AND PROPRIETY OF REGULAR ORDER	CHECK OF STOCK FOR DETERMINING ORDERING POINT OF REGULAR ORDER OF PURCHASE MERCHANDISE
12	CONFIRMATION OF PRE-ARRANGEMENT LIMIT AMOUNT AND PROPRIETY OF PRE-ARRANGEMENT AMOUNT	LIMIT AMOUNT (SAFE AMOUNT) OF PRE-ARRANGEMENT OF TO-BE-SOLD MERCHANDISE AND THE LIKE
13	CONFIRMATION OF SUPPLIER	CHECK OF PURCHASE TRANSACTION ACCOUNT OPENING OF SUPPLIER
14	PROPRIETY OF BUSINESS DAY OF SUPPLIER	CHECK OF BUSINESS DAY (DAY ALLOWING TRANSACTION) OF SUPPLIER

FIG. 8A-1

15	CONFIRMATION OF PURCHASE LIMIT AMOUNT OF SUPPLIER AND PROPRIETY OF PURCHASE AMOUNT	CHECK OF UPPER LIMIT PURCHASE AMOUNT OF SUPPLIER
16	CONFIRMATION OF PAYMENT SCHEDULE DATE OF SUPPLIER	CHECK OF PAYMENT SCHEDULE DATE OF MERCHANDISE PURCHASE AMOUNT TO SUPPLIER
17	CONFIRMATION OF MERCHANDISE OF SUPPLIER	CHECK OF SUPPLIER AND ITS MERCHANDISE
18	CONFIRMATION OF MERCHANDISE ORDER ALLOTMENT AMOUNT OF SUPPLIER	CONFIRMATION OF SUPPLIER AND ITS ALLOTMENT AMOUNT OF MERCHANDISE
19	CONFIRMATION OF MERCHANDISE ORDER ALLOTMENT PROPORTION OF SUPPLIER	CONFIRMATION OF MERCHANDISE ALLOTMENT QUANTITY OF SUPPLIER
20	CONFIRMATION OF BILLING PERIOD OF SUPPLIER	BILLING UNIT PERIOD OF PURCHASE TRANSACTION WITH SUPPLIER
21	CONFIRMATION OF BILLING DEADLINE OF SUPPLIER	CHECK OF BILLING DEADLINE OF PURCHASE TRANSACTION WITH SUPPLIER
22	CONFIRMATION OF SUPPLIER ORGANIZATION	SUPPLIER ORGANIZATION
23	CONFIRMATION OF BANKING ORGANIZATION ACCOUNT OF PAYMENT TO SUPPLIER	CHECK OF BANKING ORGANIZATION ACCOUNT OF PAYMENT TO SUPPLIER
24	CONFIRMATION OF PURCHASE AUTHORITY OF PERSON IN CHARGE AND PROPRIETY OF PURCHASE AMOUNT	CHECK OF UPPER LIMIT AMOUNT OF PURCHASE AUTHORITY OF PERSON IN CHARGE
25	CONFIRMATION OF SUPPLIER OF PERSON IN CHARGE	CHECK OF SUPPLIER OF PERSON IN CHARGE
26	CONFIRMATION OF PURCHASE MERCHANDISE OF PERSON IN CHARGE	CHECK OF PERCHES MERCHANDISE OF PERSON IN CHARGE
27	CONFIRMATION OF SUPPLIER OF ORGANIZATION	CHECK OF SUPPLIER WITH WHICH ORGANIZATION IS IN CHARGE
28	CONFIRMATION OF SUPPLIER ORGANIZATION OF ORGANIZATION	CHECK OF SUPPLIER ORGANIZATION WITH WHICH ORGANIZATION IS IN CHARGE

FIG. 8A-2

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDERING)

No.	BUSINESS OPERATION PROCESSING RULE APPLICATION ITEM	ITEM CHECK					ARITHMETIC OPERATION / EDITING
		UPPER LIMIT CHECK APPLICATION ITEM	LOWER LIMIT CHECK APPLICATION ITEM	UNIT CHECK APPLICATION ITEM	PRESENCE CHECK APPLICATION ITEM	TOTAL AMOUNT / COMPARISON CHECK APPLICATION ITEM	
1	PURCHASE MERCHANDISE	—	—	—	SUPPLIER, SUPPLIER ORGANIZATION	—	—
2	UNIT PRICE OF PURCHASE MERCHANDISE	—	—	—	MERCHANDISE	—	—
3	PURCHASE RESULT	—	—	—	MERCHANDISE, PURCHASE PERIOD	—	—
4	UNIT PRICE OF PURCHASE MERCHANDISE	—	—	—	MERCHANDISE	—	—
5	THE NUMBER OF ORDERS OF PURCHASE MERCHANDISE	STOCK LIMIT	—	—	MERCHANDISE	STOCK OF PURCHASE MERCHANDISE	—
6	THE NUMBER OF ORDERS OF PURCHASE MERCHANDISE	APPROPRIATE STOCK	APPROPRIATE STOCK	—	MERCHANDISE	STOCK OF PURCHASE MERCHANDISE	—
7	MERCHANDISE RECEPTION DATE	—	REQUIRED SUPPLY TIME	—	MERCHANDISE	—	—
8	ORDERING QUANTITY	—	—	RECEPTION LOT	MERCHANDISE	—	—
9	ORDERING QUANTITY	—	—	SUPPLY LOT	MERCHANDISE	—	—
10	MERCHANDISE RECEPTION DATE	—	REQUIRED SUPPLY TIME	—	MERCHANDISE	—	—

FIG. 8B-1

11	DATE OF ORDER	—	STOCK	—	MERCHANDISE	—	—
12	ORDERING QUANTITY	AMOUNT OF ORDER TO BE RECEIVED AND PRE-ARRANGEMENT	—	—	ORDER TO BE RECEIVED	—	—
13	ORDERING DESTINATION	—	—	—	SUPPLIER	—	—
14	DATE OF DELIVERY, DATE OF RECEPTION, DATE OF MERCHANDISE, DATE OF PAYMENT, ETC.	—	—	—	SUPPLIER	—	—
15	AMOUNT OF ORDER	—	—	—	SUPPLIER	ORDERING TOTAL AMOUNT QUANTITY OF TARGET PERIOD	—
16	DATE OF PAYMENT	PURCHASE LIMIT AMOUNT	—	—	SUPPLIER	—	—
17	MERCHANDISE OF SUPPLIER	—	—	—	SUPPLIER, MERCHANDISE	—	—
18	AMOUNT OF ORDER	—	PURCHASE ALLOTMENT AMOUNT	—	SUPPLIER, MERCHANDISE	ORDERING TOTAL AMOUNT QUANTITY OF TARGET PERIOD	—
19	AMOUNT OF ORDER	—	PURCHASE ALLOTMENT AMOUNT	—	SUPPLIER, MERCHANDISE	ORDERING TOTAL AMOUNT QUANTITY OF TARGET PERIOD	—
20	BILLING AMOUNT	BILLING DATE	BILLING DATE	—	SUPPLIER	—	—
21	BILLING DATE	BILLING DATE	—	—	SUPPLIER	—	—

FIG. 8B-2

22	SUPPLIER ORGANIZATION	—	—	—	SUPPLIER	—	—
23	BANKING ORGANIZATION ACCOUNT FOR PAYMENT	—	—	—	SUPPLIER, BANKING ORGANIZATION, BRANCH ACCOUNT NUMBER	—	—
24	PURCHASE AMOUNT	PURCHASE AMOUNT OF PERSON IN CHARGE	—	—	PERSON IN CHARGE	—	—
25	PURCHASE DESTINATION	—	—	—	PERSON IN CHARGE, SUPPLIER	—	—
26	PURCHASE MERCHANDISE	—	—	—	PERSON IN CHARGE, MERCHANDISE	—	—
27	SUPPLIER	—	—	—	PERSON IN CHARGE, MERCHANDISE	—	—
28	SUPPLIER ORGANIZATION	—	—	—	ORGANIZATION, SUPPLIER, ORGANIZATION	—	—

FIG. 8B-3

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDERING AND ORDER RECEPTION)

No.	BUSINESS OPERATION PROCESSING RULE	BUSINESS OPERATION PROCESSING RULE LOGIC
1	CONFIRMATION OF BUSINESS DAY	CHECK OF BUSINESS DAY (DAY ALLOWING TRANSACTION) OF COMPANY
2	CONFIRMATION OF PERSON IN CHARGE	CHECK OF AUTHORITY OF PERSON IN CHARGE
3	CONFIRMATION OF AUTHORITY WINDOW OF PERSON IN CHARGE	CHECK OF WINDOW WHICH CAN BE USED BY AUTHORITY OF PERSON IN CHARGE
4	CONFIRMATION OF ORGANIZATION	CHECK OF ORGANIZATION
5	PROPRIETY OF BUSINESS DAY OF ORGANIZATION	CHECK OF BUSINESS DAY OF ORGANIZATION (OFFICE, FACTORY, WAREHOUSE, BRANCH OFFICE, SHOP, ETC.)
6	CONFIRMATION OF AUTHORITY WINDOW OF ORGANIZATION	CHECK OF WINDOW WHICH CAN BE USED BY AUTHORITY OF ORGANIZATION
7	CONFIRMATION OF SALES TAX RATE	PROPRIETY OF SALES TAX AND ITS APPLICATION AND EDITING OF VALUES
8	CONFIRMATION OF INTRAOFFICE CURRENCY RATE	EDITING OF VALUES OF INTRAOFFICE REFERENCE CURRENCY RATE

FIG. 9A

COMPUTER BUSINESS OPERATION PROCESSING RULE STANDARD (ORDERING AND ORDER RECEPTION)

No.	BUSINESS OPERATION PROCESSING RULE APPLICATION ITEM	ITEM CHECK						TOTAL AMOUNT /COMPARISON CHECK APPLICATION ITEM	ARITHMETIC OPERATION /EDITING APPLICATION ITEM
		UPPER LIMIT CHECK APPLICATION ITEM	LOWER LIMIT CHECK APPLICATION ITEM	UNIT CHECK APPLICATION ITEM	PRESENCE CHECK APPLICATION ITEM	ARITHMETIC OPERATION /EDITING APPLICATION ITEM			
1	DATE OF DELIVERY, DATE OF RECEPTION, DATE OF PAYMENT	—	—	—	BUSINESS DAY	—	—	—	
2	PERSON IN CHARGE	—	—	—	PERSON IN CHARGE	—	—	—	
3	AUTHORITY WINDOW OF PERSON IN CHARGE	—	—	—	PERSON IN CHARGE, WINDOW	—	—	—	
4	ORGANIZATION	—	—	—	ORGANIZATION	—	—	—	
5	DATE OF DELIVERY, DATE OF RECEPTION, ETC	—	—	—	ORGANIZATION, BUSINESS DAY	—	—	—	
6	AUTHORITY WINDOW OF ORGANIZATION	—	—	—	ORGANIZATION, WINDOW	—	—	—	
7	SALES TAX AMOUNT	—	—	—	APPLICATION PERIOD	—	—	SALES TAX RATE	
8	CURRENCY	—	—	—	CURRENCY CODE	—	—	CURRENCY RATE	

FIG. 9B

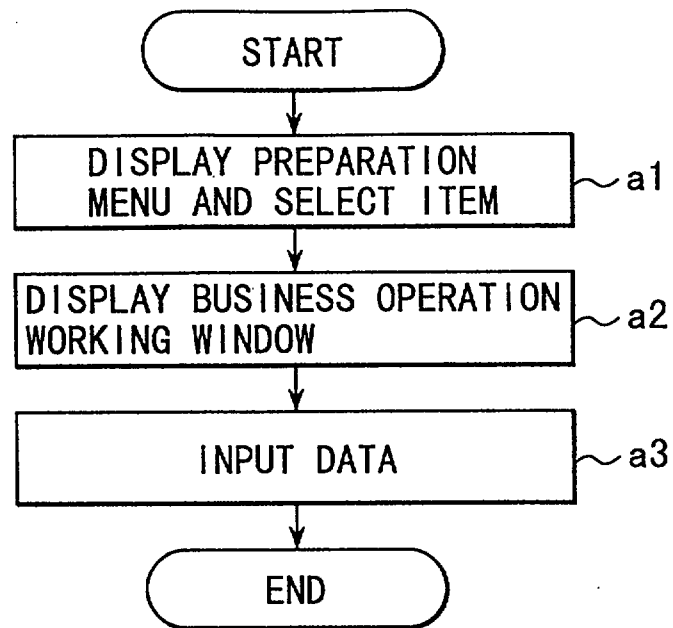


FIG. 10

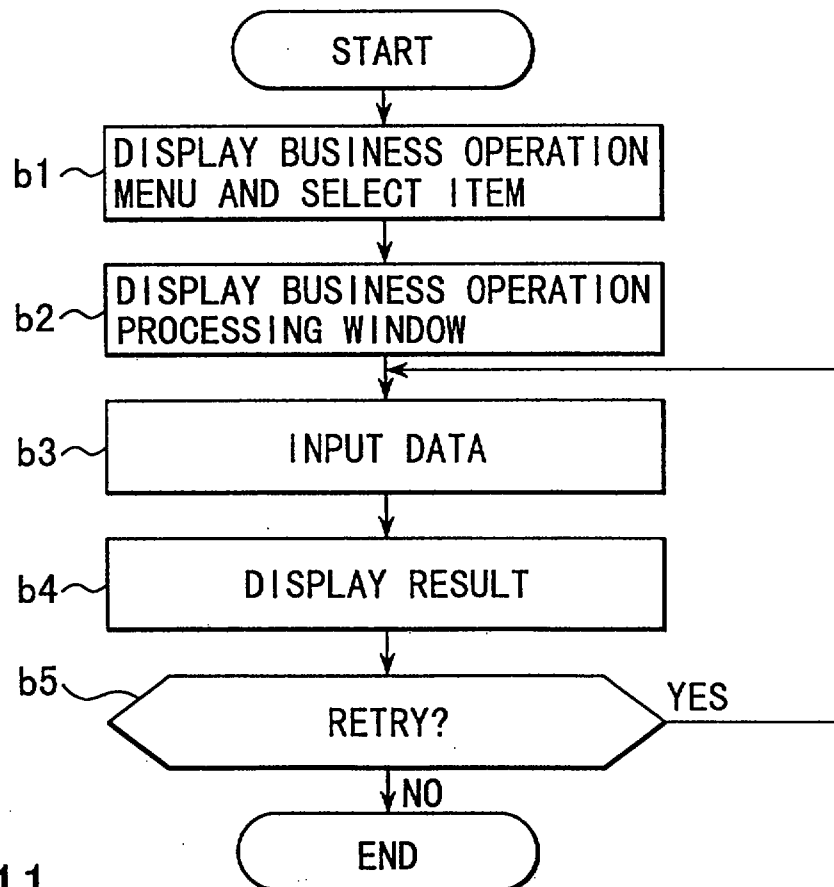


FIG. 11

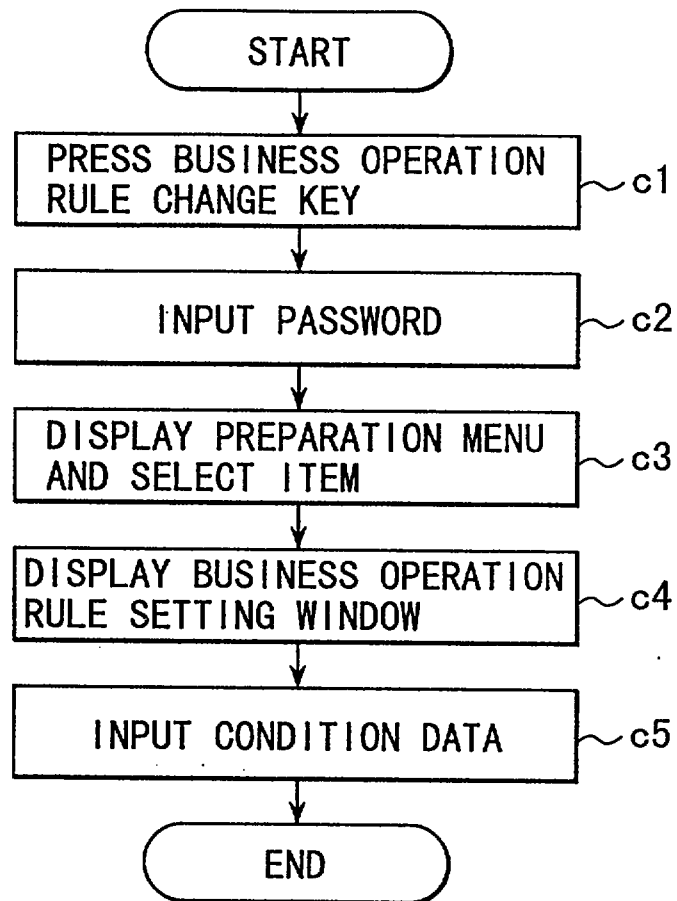


FIG. 12

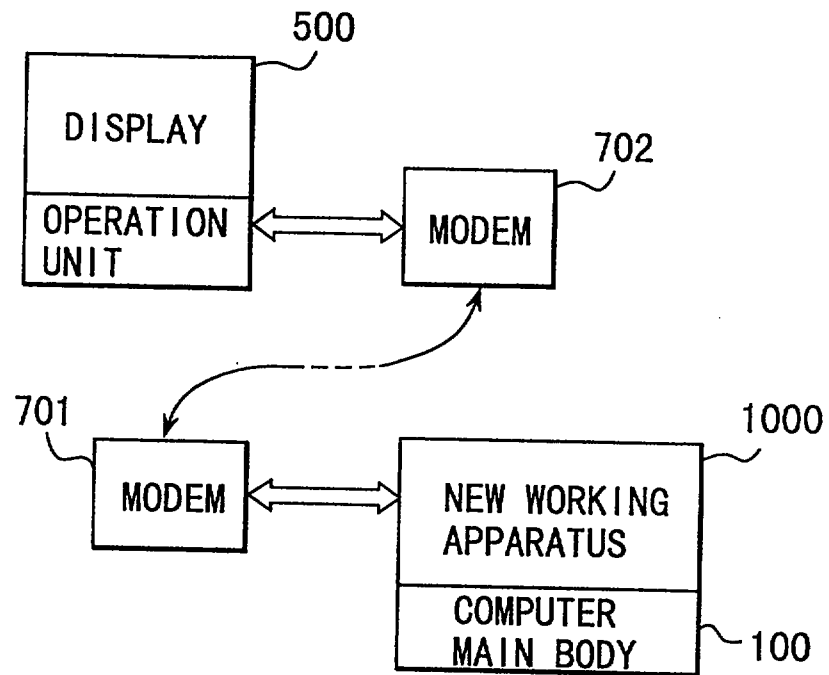


FIG. 13A

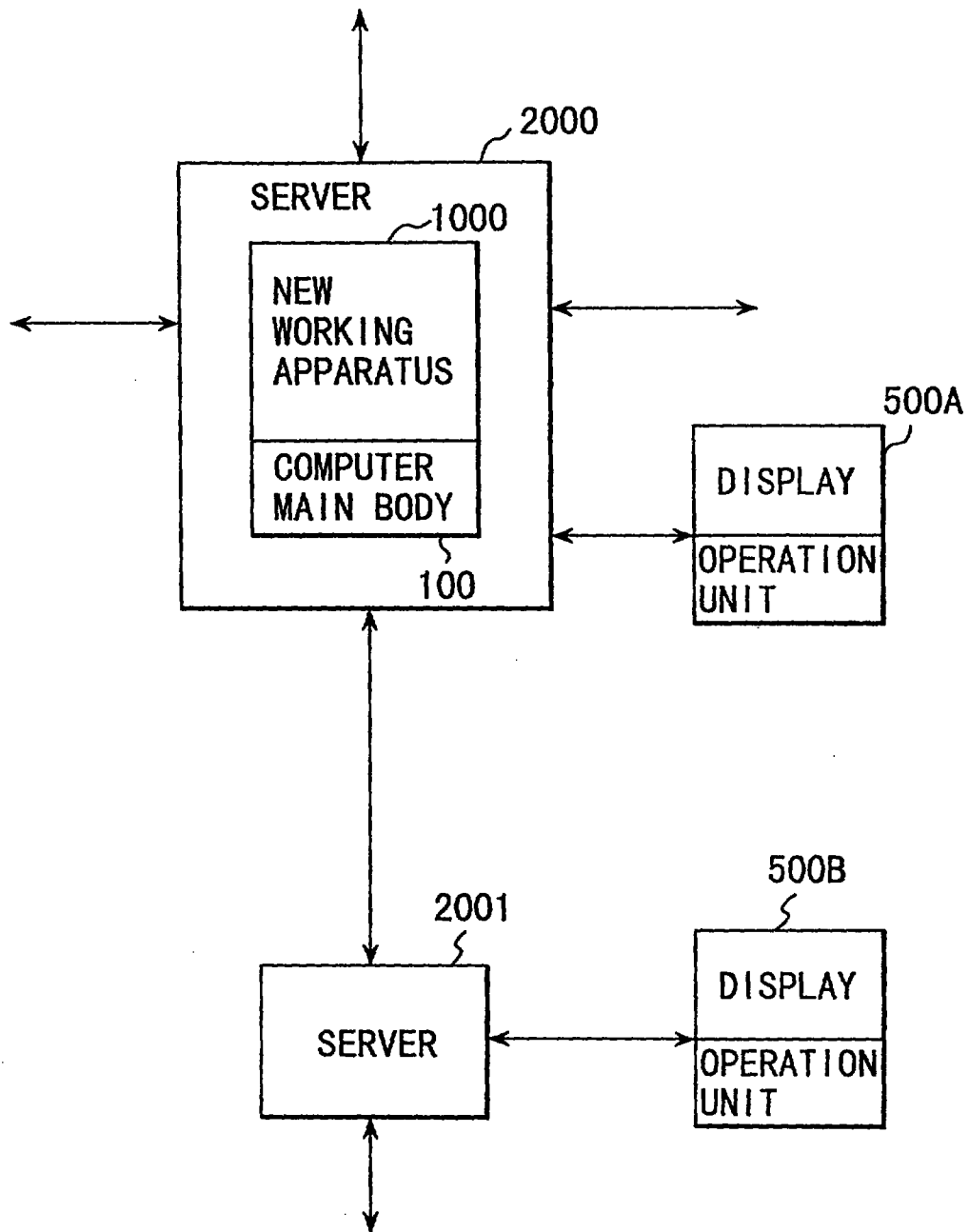


FIG. 13B

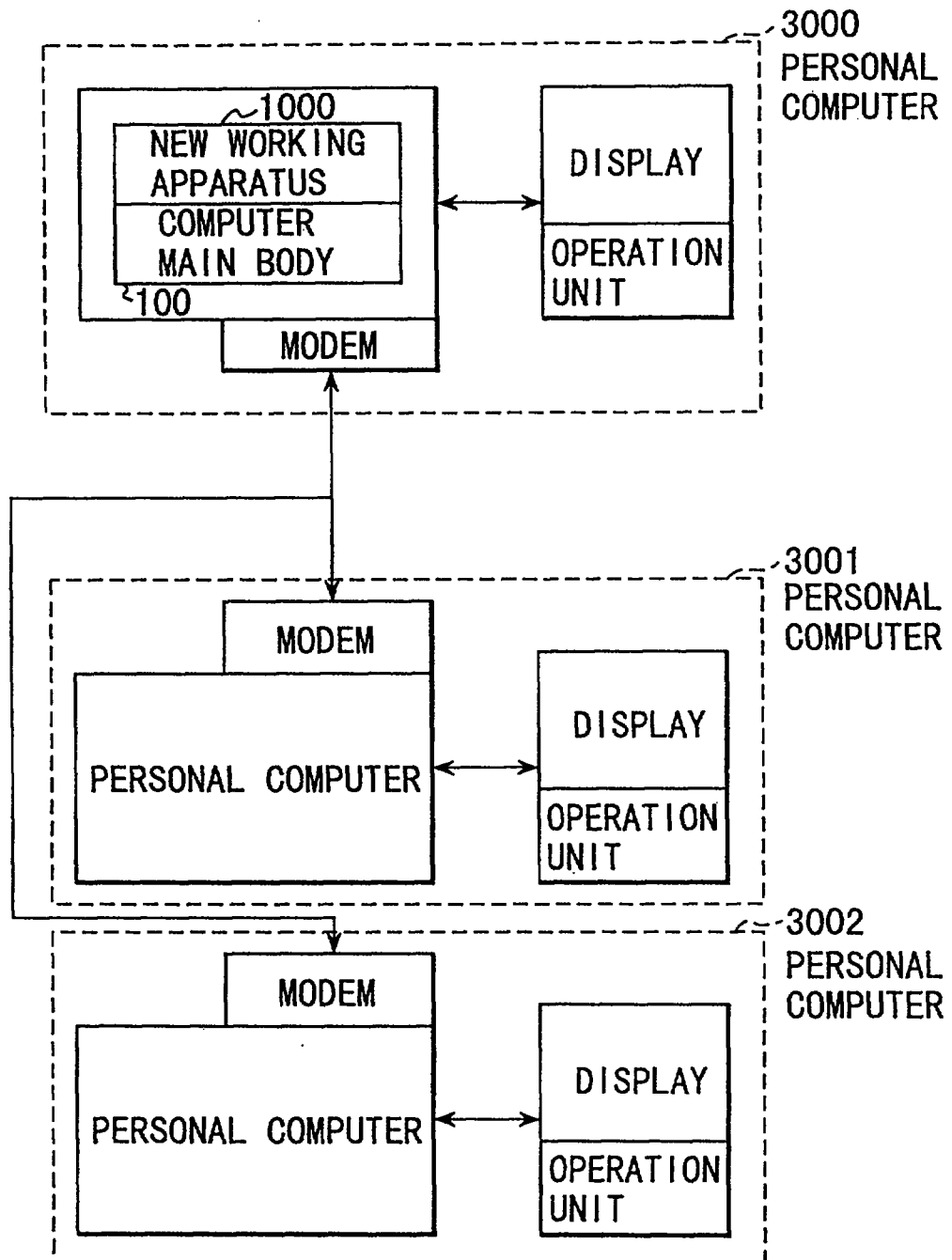


FIG. 13C

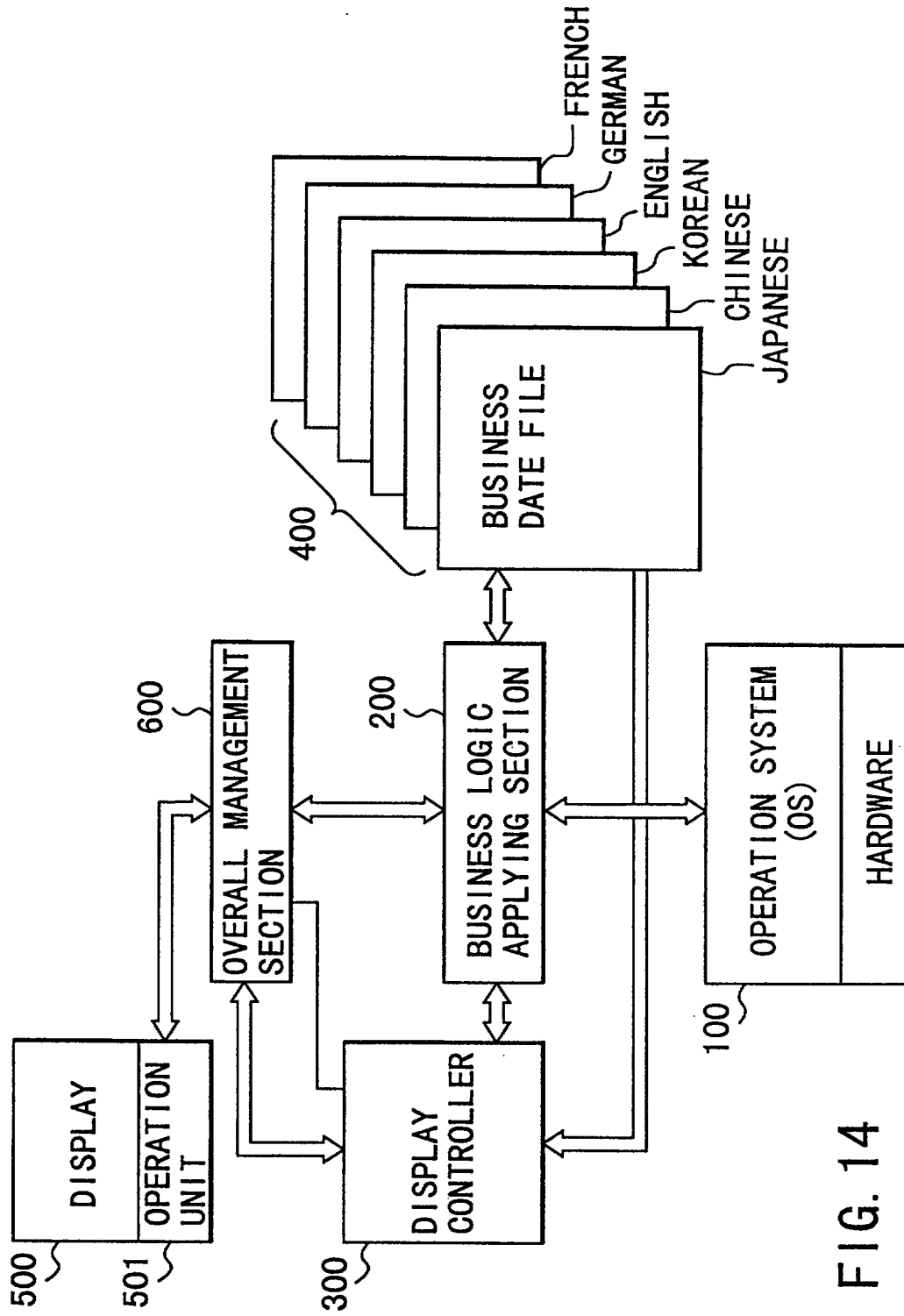


FIG. 14

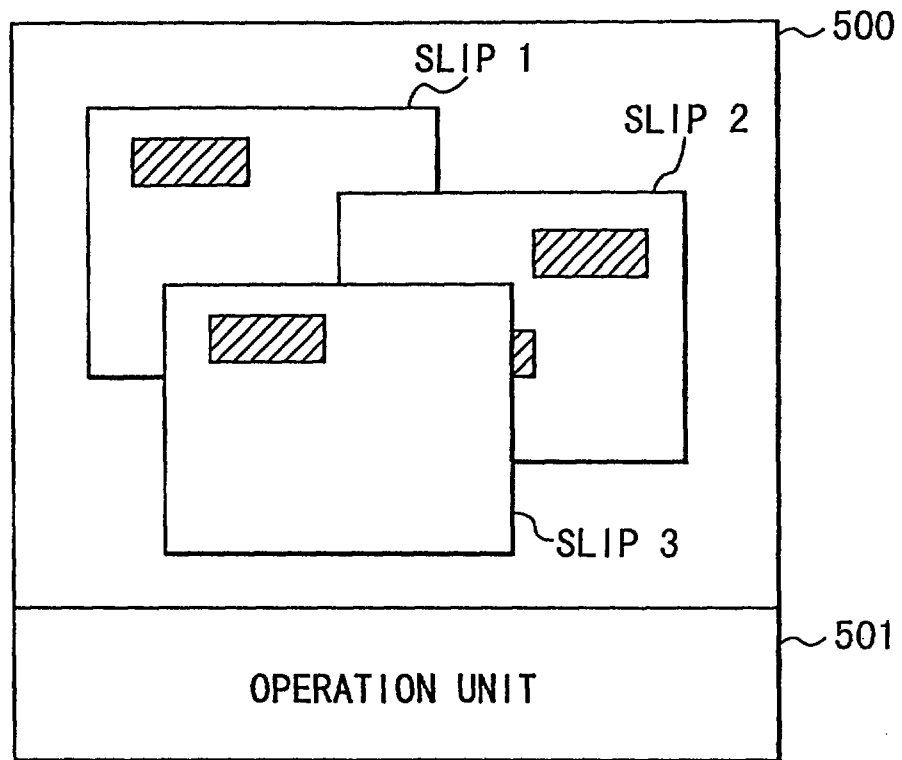


FIG. 15A

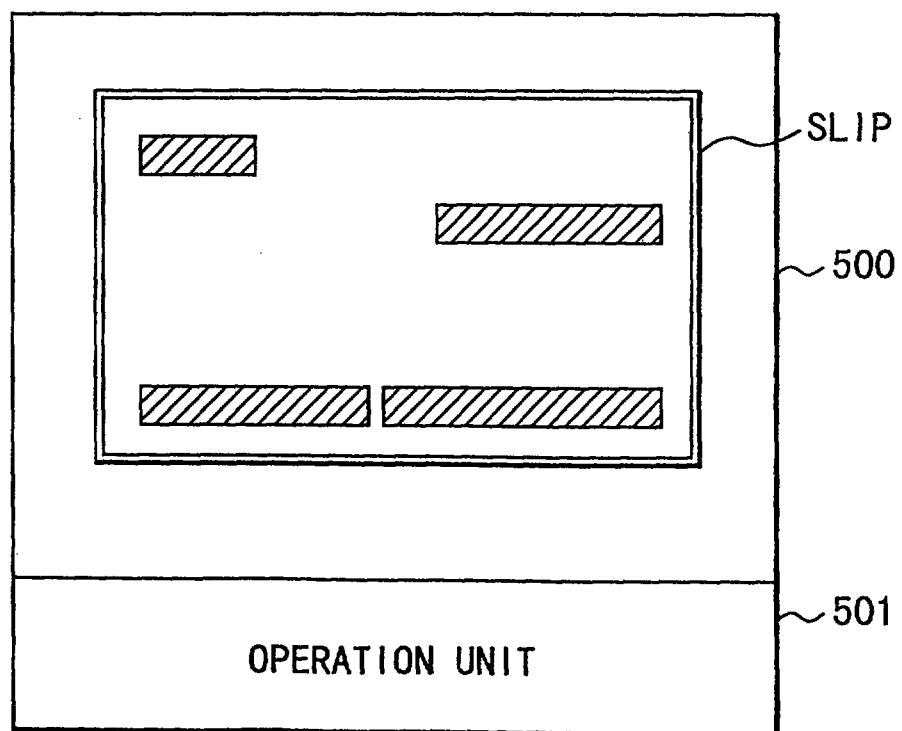


FIG. 15B

PRESENCE CHECK

DESCRIPTION OF SUPPLIER				
SUPPLIER CODE	SUPPLIER NAME	DATE OF START OF TRANSACTION	DATE OF END OF TRANSACTION	STOP OF APPLICATION
0100	A COMPANY	91/01/10	00/00/00	
0200	B COMPANY	92/08/08	93/01/20	
0300	C COMPANY	93/07/07	00/00/00	
0400	D COMPANY	92/05/05	00/00/00	
0500	E COMPANY	94/07/09	00/00/00	

[SETTING WINDOW]

OK BECAUSE SUPPLIERS ARE PRESENT AS COMPANIES TO WHICH ORDERS ARE MADE

FIG. 16A

ORDER RECEPTION		
ORDER NO. 0501	PERSON IN CHARGE FOR ORDER	MR. D
DATE OF ORDER 95/06/06	SUPPLIER CODE <u>0300</u>	C COMPANY
MERCHANDISE CODE <u>4531213</u>	MERCHANDISE NAME	<u>ABC APPARATUS</u>

[APPLICATION WINDOW]

FIG. 16B

UPPER LIMIT CHECK

SALES AMOUNT AUTHORITY OF PERSON IN CHARGE				
CODE OF PERSON IN CHARGE <u>95010</u>				
DATE OF START OF APPLICATION	DATE OF END OF APPLICATION	SALES AMOUNT AUTHORITY	STOP OF APPLICATION	
95/04/01	96/03/31	500,000		
96/04/01	97/03/31	700,000		
97/04/01	00/00/00	1,000,000		

[SETTING WINDOW]

(OK BECAUSE THE SALES AMOUNT
AUTHORITY IS 700,000 OR LESS)

FIG. 17A

ORDER RECEPTION				
ORDER NO. <u>970509</u>		CODE OF PERSON IN CHARGE FOR ORDER <u>95010</u>		
DATE OF ORDER <u>97/01/30</u>		CLIENT <u>X COMPANY</u>		
MERCHANDISE CODE	MERCHANDISE NAME	QUANTITY	UNIT PRICE	AMOUNT
0100	ABC APPARATUS	10	100	1000
0200	XYZ APPARATUS	10	150	1500
TOTAL AMOUNT				<u>2,500</u>

[APPLICATION WINDOW]

FIG. 17B

LOWER LIMIT CHECK

DESCRIPTION OF DAYS REQUIRED FOR MERCHANDISE DELIVERY				
MERCHANDISE CODE <u>4531213</u>		MERCHANDISE NAME <u>ABC APPARATUS</u>		
DATE OF START OF APPLICATION	DATE OF END OF APPLICATION	DAYS REQUIRED FOR DELIVERY	STOP OF APPLICATION	
94/04/01	95/03/31	5		
95/04/01	96/03/31	4		
96/04/01	97/03/31	3		
97/04/01	00/00/00	2		

[SETTING WINDOW]

OK BECAUSE THE VALUE OF DELIVERY
PERIOD IS LARGER THAN THE DATE
OF ORDER + 2 DAYS

FIG. 18A

ORDER RECEPTION		
ORDER NO. <u>01040</u>	CLIENT	<u>Z COMPANY</u>
DATE OF ORDER <u>97/07/07</u>	DATE OF DELIVERY	<u>97/07/10</u>
MERCHANDISE CODE <u>4531213</u>	MERCHANDISE NAME	<u>ABC APPARATUS</u>
QUANTITY <u>100</u>	UNIT PRICE <u>95</u>	AMOUNT <u>9,500</u>

[APPLICATION WINDOW]

FIG. 18B

UNIT CHECK

MERCHANDISE SALES SET				
MERCHANDISE CODE <u>4531213</u>		MERCHANDISE NAME <u>ABC APPARATUS</u>		
DATE OF START OF APPLICATION	DATE OF END OF APPLICATION	SALES SET	STOP OF APPLICATION	
95/04/01	96/03/31	10		
96/04/01	97/03/31	50		
97/04/01	00/00/00	100		

[SETTING WINDOW]

OK BECAUSE THE SALES SET
INDICATES A MULTIPLE OF 50

FIG. 19A

ORDER RECEPTION			
ORDER NO. <u>01030</u>		PERSON IN CHARGE FOR ORDER RECEPTION <u>MR. B</u>	
DATE OF ORDER <u>97/03/03</u>		CLIENT <u>X COMPANY</u>	
MERCHANDISE CODE <u>4531213</u>		MERCHANDISE NAME <u>ABC APPARATUS</u>	
QUANTITY	<u>100</u>	UNIT PRICE	<u>95</u>
		AMOUNT	<u>9,500</u>

[APPLICATION WINDOW]

FIG. 19B

EDITING

DESCRIPTION OF MERCHANDISE UNIT PRICE FOR EACH QUANTITY					
MERCHANDISE CODE <u>4531213</u>			MERCHANDISE NAME <u>ABC APPARATUS</u>		
DATE OF START OF APPLICATION	DATE OF END OF APPLICATION	QUANTITY RANGE		UNIT PRICE	STOP OF APPLICATION
97/04/01	00/00/00	0	99	100	
97/04/01	00/00/00	100	199	95	
97/04/01	00/00/00	200	299	90	
97/04/01	00/00/00	200	399	85	

[SETTING WINDOW]

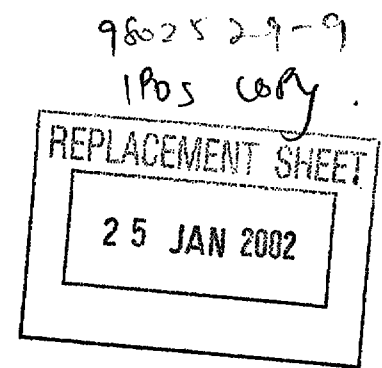
OK BECAUSE THIS CASE CORRESPONDS TO THE UNIT PRICE OF 90, WHICH IS THEN EDITED ON THE WINDOW TO SET THE VALUE

FIG. 20A

ORDER RECEPTION	
ORDER NO. <u>01020</u>	PERSON IN CHARGE FOR ORDER RECEPTION <u>MR. A</u>
DATE OF ORDER <u>97/06/01</u>	CLIENT <u>X COMPANY</u>
MERCHANDISE CODE <u>4531213</u>	MERCHANDISE NAME <u>ABC APPARATUS</u>
QUANTITY <u>250</u> UNITS	UNIT PRICE <u>¥90</u>
	AMOUNT <u>¥22,500</u>

[APPLICATION WINDOW]

FIG. 20B



CLAIMS

1. An apparatus for applying and preparing software, comprising:
a worksheet file storing various kinds of business worksheets each including at least one
5 business logic term which represents a minimum unit in a business operation and is
prepared in a plurality of languages as display data, said business worksheets including
rule setting worksheets for inputting business rule setting data and application data
inputting worksheets for inputting application data;
rule setting means for displaying a given one of the rule setting worksheets which
10 corresponds to user selection information on a display, on which a rule setting data
input position of the given rule setting worksheet is indicated by a corresponding
business logic term in such a manner that a user can input the business rule setting data
to said rule setting data input position and change the business rule setting data in said
rule setting data input position;
- 15 a business data file for, when data is input to the rule setting data input position, storing
the input data as business rule setting data together with the corresponding business
logic term;
first using means for displaying a given one of the application data inputting worksheets
which corresponds to user selection information on the display, on which an application
20 data input position of the given application data inputting worksheet is indicated by a
corresponding business logic term;
second using means for inputting application data corresponding to the business logic
term stored in said business data file into the application data input position; and
business logic applying means for, when the application data is input, determining

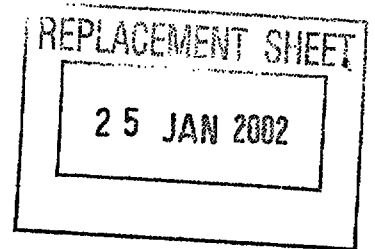


25 JAN 2002

software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data, and obtaining an arithmetic processing unit and thereby supporting a business work of the user.

2. An apparatus according to claim 1 wherein a data processing order is predetermined when the application data is input to the application data input positions.

3. An apparatus for applying and preparing software, comprising:
- a worksheet file storing various kinds of business worksheets each using at least one business logic term representing a minimum unit in a business operation and is prepared in a plurality of languages as display data, said business worksheets including rule setting worksheets for inputting business rule setting data and application data inputting worksheets for inputting application data;
- rule setting means for displaying a given one of the rule setting worksheets which corresponds to user selection information on a display, on which a rule setting data input position of the given rule setting worksheet is indicated by a corresponding business logic term in such a manner that a user can input the business rule setting data to said rule setting data input position and change the business rule setting data in said rule setting data input position, said rule setting data input position having positions for inputting a date of start of application and a date of end of application;
- a business data file for, when data is input to the rule setting data input position, storing the input data as business rule setting data together with the corresponding business



logic term;

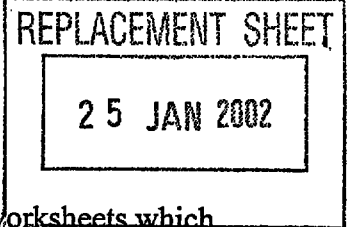
first using means for displaying a given one of the application data inputting worksheets which corresponds to user selection information on the display, on which an application data input position of the given application data inputting worksheet is indicated by a
5 corresponding business logic term;

second using means for inputting application data corresponding to the business logic term stored in said business data file into the application data input position; and
business logic applying means for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the
10 application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data, obtaining an arithmetic processing result, and thereby supporting a business work of the user.

15 4. An apparatus according to claim 3 wherein means for requesting a password input is concomitantly operated in said rule setting means in order to input the date of start of application and the date of end of application.

5. A recording medium for applying and preparing software, comprising:

20 a worksheet file section storing various kinds of business worksheets each using at least one business logic term which represents a minimum unit in a business operation and is prepared in a plurality of languages as display data, said business worksheets including rule setting worksheets for inputting business rule setting data and application data inputting worksheets for inputting application data;



rule setting software for displaying a given one of the rule setting worksheets which corresponds to user selection information on a display, on which a rule setting data input position of the given rule setting worksheet is indicated by a corresponding business logic term in such a manner that a user can input the business rule setting data to said rule setting data input position and change the business rule setting data in said rule setting data input position;

a business data file section for, when data is input to the rule setting data input position, storing the input data as business rule setting data together with the corresponding business logic term;

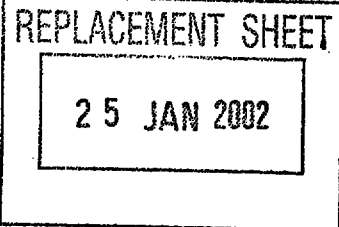
10 first using software for displaying a given one of the application data inputting worksheets which corresponds to user selection information on the display, on which an application data input position of the given application data inputting worksheet is indicated by a corresponding business logic term;

second using software for inputting application data corresponding to the business logic term stored in said business data file section into the application data input position; and

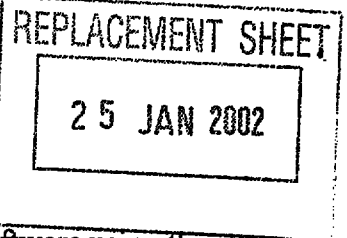
15 business logic applying software for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data,

20 obtaining an arithmetic processing result, and thereby supporting a business work of the user.

6. A medium according to claim 5, wherein a data processing order is predetermined when the application data is input to the application data input position.



7. A recording medium for applying and preparing software, comprising:
a worksheet file section storing various kinds of business worksheets each using at least
one business logic term representing a minimum unit in a business operation and is
prepared in a plurality of languages as display data, said business worksheets including
5 rule setting worksheets for inputting business rule setting data and application data
inputting worksheets for inputting application data;
rule setting software for displaying a given one of the rule setting worksheets which
corresponds to user selection information on a display, on which a rule setting data
input position of the given rule setting worksheet is indicated by a corresponding
10 business logic term in such a manner that a user can input the business rule setting data
to said rule setting data input position and change the business rule setting data in said
rule setting data input position, said rule setting data input position having positions for
inputting a date of start of application and a date of end of application;
a business data file for, when data is input to the rule setting data input position, storing
15 the input data as business rule setting data together the corresponding business logic
term;
first using software for displaying a given one of the application data inputting
worksheets which corresponds to user selection information on the display, on which an
application data input position of the given application data inputting worksheet is
20 indicated by a corresponding business logic term;
second using software for inputting application data corresponding to the business logic
term stored in said business data file into the application data input position; and
business logic applying software for, when the application data is input, determining
software to be used in correspondence with the business logic term corresponding to the



application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data, obtaining an arithmetic processing result, and thereby supporting a business work of the user.

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8. A medium according to claim 7, wherein software for requesting a password input is concomitantly operated under an environment of said rule setting software in order to input the date of start of application and the date of end of application.

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9. An apparatus for applying and preparing software, comprising:

a worksheet file storing various kinds of business worksheets each using at least one business logic term representing a minimum unit in a business operation, said business worksheets including rule setting worksheets for inputting business rule setting data and application data inputting worksheets for inputting application data;

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rule setting means for displaying a given one of the rule setting worksheets which corresponds to user selection information on a display on which a rule setting data input position of the given rule setting worksheet is indicated by a corresponding business logic term in such a manner that a user can input the business rule setting data to said rule setting data input position and change the business rule setting data in said rule

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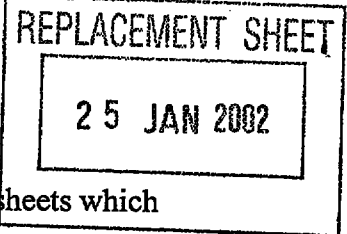
setting data input position;

a business data file for, when data is input to the rule setting data input position, storing the input data as business rule setting data together with the corresponding business logic term;

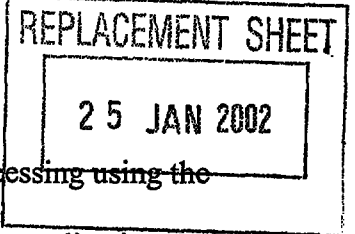


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- first using means for displaying a given one of the application data inputting worksheets which corresponds to user selection information on the display, on which an application data input position of the given application data inputting worksheet is indicated by a corresponding business logic term;
- 5 second using means for inputting application data corresponding to the business logic term stored in said business data file; and
- business logic applying means for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the
- 10 application data and the business rule setting data corresponding to the application data, obtaining an arithmetic processing result, and thereby supporting a business work of the user.
10. An apparatus according to claim 9, comprising security means for requesting a key
- 15 input of a user when the business rule setting data is input.
11. An apparatus according to claim 9, wherein a date of application is input to the rule setting data input position by use of a business logic term for setting a business rule.
- 20 12. A recording medium for applying and preparing software, comprising:
- a worksheet file section storing various kinds of business worksheets each using at least one business logic term representing a minimum unit in a business operation, said business worksheets including rule setting worksheets for inputting business rule setting data and application data inputting worksheets for inputting application data;



- rule setting software for displaying a given one of the rule setting worksheets which corresponds to user selection information on a display, on which a rule setting data input position of the given rule setting worksheet is indicated by a corresponding business logic term in such a manner that a user can input the business rule setting data to said rule setting data input position and change the business rule setting data in said rule setting data input position;
- a business data file for, when data is input to the rule setting data input position, storing the input data as business rule setting data together with the corresponding business logic term;
- 10 first using software for displaying a given one of the application data inputting worksheets which corresponds to user selection information on the display, on which an application data input position of the given application data inputting worksheet is indicated by a corresponding business logic term;
- second using software for inputting application data corresponding to the business logic term stored in said business data file; and
- 15 business logic applying software for, when the application data is input, determining software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data,
- 20 obtaining an arithmetic processing result, and thereby supporting a business work of the user.
13. A medium according to claim 12, wherein the software determined by said business



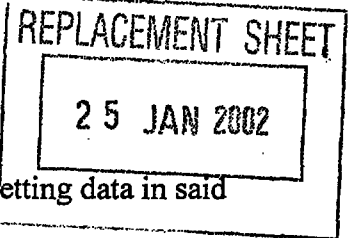
logic applying software is software for performing unit check processing using the application data and business rule setting data corresponding to the application data.

14. A medium according to claim 12, wherein the software determined by said business
5 logic applying software is software for performing total amount/comparison processing using the application data and business rule setting data corresponding to the application data.

15. A medium according to claim 12, wherein the rule setting software includes
10 procedure means for performing security check for requesting a key input of the user when the business rule setting data is input.

16. A medium according to claim 12, wherein a date of application is input to the rule
15 setting data input position by use of a business logic term for setting business rule.

17. An apparatus for applying and preparing software, comprising:
a worksheet file storing various kinds of business worksheets each using at least one
business logic term representing a minimum unit in a business operation, said business
worksheets including rule setting worksheets for inputting business rule setting data and
20 application data inputting worksheets for inputting application data;
rule setting means for displaying a given one of the rule setting worksheets which
corresponds to user selection information on a display, on which a rule setting data
input position of the given rule setting worksheet is indicated by a corresponding
business logic term in such a manner that a user can input the business rule setting data



to said rule setting data input position and change the business rule setting data in said rule setting data input position, said display being located at a remote place and

connected via a communication path;

a business data file for, when data is input to the rule setting data input position, storing

5 the input data as business rule setting data together with the corresponding business logic term;

first using means for displaying a given one of the application data inputting worksheets which corresponds to user selection information on the display, on which an application data input position of the given application data inputting worksheet is indicated by a

10 corresponding business logic term, said first using means being located at the remote place and connected via the communication path;

second using means for inputting application data corresponding to the business logic term stored in said business data file; and

business logic applying means for, when the application data is input, determining

15 software to be used in correspondence with the business logic term corresponding to the application data, performing arithmetic processing by the determined software using the application data and the business rule setting data corresponding to the application data, obtaining an arithmetic processing result, and thereby supporting a business work of the user.