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(57) Abstract:



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SYSTEM AND METHOD FOR REPORTING MEDICAL INFORMATION

Field of the Invention

[0001] The present invention relates to systems and methods for reporting medical information. In particular, the present invention relates to systems and methods for generating customized reports and letters and for distributing the reports and letters by fax, e-mail, mail and other means. Concepts described below may be further explained in one or more of the co-filed patent applications entitled HELP UTILITY FUNCTIONALITY AND ARCHITECTURE (Atty Docket: ROCHE-P0033), METHOD AND SYSTEM FOR GRAPHICALLY INDICATING MULTIPLE DATA VALUES (Atty Docket: ROCHE-P0039), SYSTEM AND METHOD FOR DATABASE INTEGRITY CHECKING (Atty Docket: ROCHE-P0056), METHOD AND SYSTEM FOR DATA SOURCE AND MODIFICATION TRACKING (Atty Docket: ROCHE-P0037), PATIENT-CENTRIC HEALTHCARE INFORMATION MAINTENANCE (Atty Docket: ROCHE-P0043), EXPORT FILE WITH MANIFEST FOR ENHANCED DATA TRANSFER (Atty Docket: ROCHE-P0044), GRAPHIC ZOOM FUNCTIONALITY FOR A CUSTOM REPORT (Atty Docket: ROCHE-P0048), METHOD AND SYSTEM FOR SELECTIVE MERGING OF PATIENT DATA (Atty Docket: ROCHE-P0065), METHOD AND SYSTEM FOR PERSONAL MEDICAL DATA DATABASE MERGING (Atty Docket: ROCHE-P0066), METHOD AND SYSTEM FOR WIRELESS DEVICE COMMUNICATION (Atty Docket: ROCHE-P0034), METHOD AND SYSTEM FOR SETTING TIME BLOCKS (Atty Docket: ROCHE-P0054), METHOD AND SYSTEM FOR ENHANCED DATA TRANSFER (Atty Docket: ROCHE-P0044), COMMON EXTENSIBLE DATA EXCHANGE FORMAT (Atty Docket: ROCHE-P0036), METHOD OF CLONING SERVER INSTALLATION TO A NETWORK CLIENT (Atty Docket: ROCHE-P0035), METHOD AND SYSTEM FOR QUERYING A DATABASE (Atty Docket: ROCHE-P0049), METHOD AND SYSTEM FOR EVENT BASED DATA COMPARISON (Atty Docket: ROCHE-P0050), DYNAMIC COMMUNICATION STACK (Atty Docket: ROCHE-P0051), METHOD AND SYSTEM FOR MERGING EXTENSIBLE

DATA INTO A DATABASE USING GLOBALLY UNIQUE IDENTIFIERS (Atty Docket: ROCHE-P0052), METHOD AND SYSTEM FOR ACTIVATING FEATURES AND FUNCTIONS OF A CONSOLIDATED SOFTWARE APPLICATION (Atty Docket: ROCHE-P0057), METHOD AND SYSTEM FOR CONFIGURING A CONSOLIDATED SOFTWARE APPLICATION (Atty Docket: ROCHE-P0058), METHOD AND SYSTEM FOR DATA SELECTION AND DISPLAY (Atty Docket: ROCHE-P0011), METHOD AND SYSTEM FOR ASSOCIATING DATABASE CONTENT FOR SECURITY ENHANCEMENT (Atty Docket: ROCHE-P0041), METHOD AND SYSTEM FOR CREATING REPORTS (Atty Docket: ROCHE-P0046), METHOD AND SYSTEM FOR CREATING USER-DEFINED OUTPUTS (Atty Docket: ROCHE-P0047), DATA DRIVEN COMMUNICATION PROTOCOL GRAMMAR (Atty Docket: ROCHE-P0055), HEALTHCARE MANAGEMENT SYSTEM HAVING IMPROVED PRINTING OF DISPLAY SCREEN INFORMATION (Atty Docket: ROCHE-P0031) and METHOD AND SYSTEM FOR MULTI-DEVICE COMMUNICATION (Atty Docket: ROCHE-P0064), the entire disclosures of which are hereby expressly incorporated herein by reference. It should be understood that the concepts described below may relate to diabetes management software systems for tracking and analyzing health data, such as, for example, the ACCU-CHEK[®] 360° product provided by Roche Diagnostics. However, the concepts described herein may also have applicability to apparatuses, methods, systems, and software in fields that are unrelated to healthcare. Furthermore, it should be understood that references in this patent application to devices, meters, monitors, pumps, or related terms are intended to encompass any currently existing or later developed apparatus that includes some or all of the features attributed to the referred to apparatus, including but not limited to the ACCU-CHEK[®] Active, ACCU-CHEK[®] Aviva, ACCU-CHEK[®] Compact, ACCU-CHEK[®] Compact Plus, ACCU-CHEK[®] Integra, ACCU-CHEK[®] Go, ACCU-CHEK[®] Performa, ACCU-CHEK[®] Spirit, ACCU-CHEK[®] D-Tron Plus, and ACCU-CHEK[®] Voicemate Plus, all provided by Roche Diagnostics or divisions thereof.

Background of the Invention

[0002] Various systems for storing and reporting medical information are known. For example, systems are known which allow a user to download medical data from a

device, such as a blood glucose meter, to a database, such as a database stored on a personal computer. In some such systems, the data can be displayed on monitor or printed.

Summary of the Invention

[0003] In one embodiment of the invention, a method for outputting a report in multiple formats includes the steps of selecting a report recipient, selecting a report template, selecting at least two formats in which the report will be output, populating the report template and outputting the report in the selected formats. Any one of a number of output formats may be used, such as an e-mail, a fax, a printed copy, a text message and/or a posting to a web page. The method may further include the steps of selecting a second report template, populating the second report template and outputting a second report in the selected formats. The recipients and the templates may be selected from a list.

[0004] In one embodiment of the invention, the template is populated with data stored in a database. The data may relate to the recipient and, in particular, may relate to a medical condition of the recipient.

[0005] Another embodiment of the invention includes the step of selecting a language in which at least one format of the report will be output. Other embodiments include the step of selecting a first language in which one format of the report will be output and selecting a second language in which a second format of the report will be output.

[0006] In another embodiment of the invention, a method of outputting a report in multiple formats includes the steps of selecting at least two report recipients, selecting a report template, selecting at least two formats in which the report will be output, populating the report template and outputting the report in the selected formats. One of the recipients may receive the report in one of the selected output formats and a second recipient may receive the report in a different one of the selected output formats.

[0007] In another embodiment of the invention, the report template is populated with a first set of data stored in a database to generate a first report to be output to a

first one of the recipients and the template is populated with a second set of data stored in a database to generate a second report to be output to a second one of the recipients. Different recipients may receive the reports in different languages.

[0008] According to another embodiment of the invention, a system for outputting a report in multiple formats includes a database, a plurality of report recipients stored in the database, a plurality of report templates stored in the database, data stored in the database for populating the report templates to produce reports and means for selecting the formats in which the reports are output. The system may also include means for selecting the report recipients and/or report templates.

Brief Description of the Drawings

[0009] The above-mentioned and other features of this invention, and the manner of attaining them, will become more apparent and the invention itself will be better understood by reference to the following description of embodiments of the invention taken in conjunction with the accompanying drawings, wherein:

[0010] Figs. 1 through 42 depict screen captures of software utilized in connection with embodiments of systems and methods for reporting medical information according to the present invention

[0011] Although the drawings represent embodiments of various features and components according to the present invention, the drawings are not necessarily to scale and certain features may be exaggerated in order to better illustrate and explain the present invention. The exemplification set out herein illustrates certain embodiments of the invention, and such exemplification is not to be construed as limiting the scope of the invention in any manner.

Detailed Description of Embodiments of the Invention

[0012] Fig. 1 is a screen capture of the main menu of a system for reporting medical information according to one embodiment of the present invention. As described in greater detail below, the system includes software having a database

containing various letter templates, report templates, graphs, charts and data. The software may be installed and run on, for example, a personal computer.

[0013] Main menu 10 includes, among other icons, an icon 12 labeled "advanced reports and letters." The "advanced reports and letters" icon 12 can be selected by utilizing a mouse to position a cursor over icon 12 and clicking. Icon 12 can also be selected in other known manners.

[0014] Selecting "advanced reports and letters" icon 12 displays "advanced reports and letters menu" 14 (Fig. 2). Menu 14 includes a "print/e-mail/fax letters" icon 16, a "print/e-mail/fax reports" icon 18, a "build letters" icon 20, a "build custom reports" icon 22 and a "build batch reports" icon 24. The "build letters" icon 20 and the "build custom reports" icon 22 allow the user to construct customized letter and report templates. The "build batch reports" icon 24 allows the user to construct batch reports that are a combination of predefined reports and letters sorted in the system. The "print/e-mail/fax letters" icon 16 and "print/e-mail/fax reports" icon 18 allow the user to send reports via the various means indicated. These features are described in greater detail below.

[0015] To create custom letter templates for reporting medical information, the user first selects the "build letters" icon 20. Selecting the "build letters" icon 20 displays a "letters menu" 26 that lists the available letters stored in the system (Fig. 3). "Letters menu" 26 includes a "create new" icon 28, an "edit" icon 30, a "delete" icon 32 and a "close" icon 34. In the embodiment shown, the "letters menu" 26 includes one stored letter template entitled "Patient Letter 1."

[0016] To create new letter templates, the user selects "create new" icon 28 which causes "create new letter" screen 36 to be displayed (Fig. 4). "Create new letter" screen 36 includes a text box 38 for entering the name of the new letter and a text box 40 for entering a description of the new letter. Entering text in boxes 38 and 40 causes "OK" icon 42 to become active (Fig. 5). "Create new letter" screen 36 further includes a "cancel" icon 44.

[0017] After entering the letter name and description, selecting "OK" icon 42 displays a "create new letter" template 46 (Fig. 6). Template 46 is generally divided into

a first or content items section 48 and a second or template section 50. Content items section 48 includes a variety of content that can be utilized to create the letter template. For example, text content 52 includes various tools for placing written text in template section 50. Graphs content 54 includes various graphs stored in the system database that can be included in template section 50. Favorite reports content 56 includes the particular user's favorite or most frequently used reports. Fields content 58 includes patient content 60, which can include information such as (a) the patient's name, address, e-mail, phone numbers, fax numbers and other contact information, (b) insurance information including insurance provider, name, contact information and policy numbers, (c) patient healthcare provider information such as the healthcare provider's names, contact information and (d) patient demographic information such as the patient's age, birth date, ethnicity, gender and information regarding the patient's medical condition such as the date they were diagnosed with a particular disease (such as diabetes), the type of diabetes and other information. The document content 62 (Fig. 7) includes content that can be utilized in template section 50 to identify information about the document itself, such as its title, page numbers, the date the document was generated and other information.

[0018] The various content items may be stored in the system database in various forms. For example, blood glucose readings and other data for individual patients may be stored in the database and associated with the patient's name. Graph templates may be stored in the system database and populated with other stored data when the graph is generated for output as part of a report or letter, as described below.

[0019] Letter templates can be generated by utilizing a mouse or other known hardware to drag and drop items from content items section 48 to template section 50. For example, in the template shown in Fig. 8, the patient name content 64 and patient address content 66 have been dragged and dropped from content section 48 to template section 50. The standard week graph 68 (which displays blood glucose measurements for a week) has also been dragged and dropped into template section 50. A text box 70 has also been dragged and dropped into the template section 50 and populated with the phrase "your blood glucose readings are displayed above." The user may, of course, select any desired combination of the content items for use in template

section 50. If the user desires to preview the template prior to saving it, the user simply activates the "preview" icon 72. This causes a "letter preview" window 74 to be displayed which shows the format of the letter produced by the template (Fig. 9). To return to the "create new letter" template 46, the user simply selects the "close" icon 76.

[0020] In one embodiment of the invention, the user can adjust the scale and content of the graphs and other information that have been dragged and dropped to template section 50. For example, if the user desires to alter the graph 68, he or she can position a cursor over the graph and click. This causes a boundary box 78 to be displayed around graph 68 and a "graph content" menu 80 to be displayed at the bottom of template section 50 (Fig. 10). The cursor can then be used to expand or contract boundary box 78 by positioning the cursor over a portion of the box and dragging it to increase or decrease the size, as is known in the art. For example, as shown in Fig. 11, boundary box 78 has been reduced in size, thereby reducing the size of graph 68. Note also that as graph 68 has been reduced in size, the y axis scale 82 has been adjusted such that the maximum blood glucose reading displayed is now 20.0 mmol/L, not 22.0 mmol/L. That is, adjusting boundary box 78 to adjust to size of graph 68 does not merely change the size of graph 68 but also reformats the x and y scales as needed.

[0021] The present invention also allows the user to select desired content for graph 68 from the graph content menu 80. For example, if the user selects the "show key" box 84, the key 86 for reading graph 68 is displayed beneath it (Fig. 12). Note that the addition of key 86 has also caused further rescaling of y axis 82. Similarly, selecting the "show statistics" box 88 displays various statistics 90 in conjunction with graph 68. Clicking outside of boundary box 78 causes boundary box 78 and graph content menu 80 to disappear.

[0022] When the user is satisfied with the content of template section 50, he or she selects "OK" icon 92 to save the template in the system database with the previously stored letter and report templates. Selecting "OK" icon 92 also returns the user to "letters menu" 26 which now includes newly created Patient Letter 2 (Fig. 13).

Alternatively, the user can select "cancel" icon 94 to abandon the operation and return to letters menu 26 .

[0023] If the user wants to edit a template, he or she highlights the template to be edited and selects "edit" icon 30. This causes the stored template to be displayed with its content items section 48 and template section 50. The template can then be edited by dragging and dropping content, resizing graphs, changing text, etc. as described in connection with the method for creating the template. A stored letter template can be deleted by highlighting the template in menu 26 and selecting "delete" icon 32. Selecting "close" icon 34 returns the user to the "advanced reports and letters" menu 14.

[0024] Returning to Fig. 2, selecting "build custom reports" icon 22 displays a "reports menu" 96 that lists the available reports stored in the system (Fig. 14). "Reports menu" 96 includes a "create new" icon 98, an "edit" icon 100, a "delete" icon 102 and a "close" icon 104. In the embodiment shown, the "reports menu" 96 includes one stored report template entitled "Overview."

[0025] To create new report templates, the user selects "create new" icon 98 which causes "create new report" screen 106 to display (Fig. 15). "Create new report" screen 106 includes a text box 108 for entering the name of the new report and a text box 110 for entering a description of the new report. Entering text in boxes 108 and 110 causes "OK" icon 112 to become active (Fig. 16). "Create new report" screen 106 further includes a "cancel" icon 114. "Create new report" screen 106 also allows the user to define the report template type. In the example shown, the user can define the report as a patient report by selecting "patient report" option 110A or as a group report by selecting "group report" option 110B. In this manner, report templates can be created for reporting individual patient data or group patient data. For example, a user may want to create a report template for reporting data relating to a group of patients that are the same age, the same gender or that began a particular treatment at a particular time.

[0026] After entering the report name and description, selecting "OK" icon 112 displays a "create new report" template 116 (Fig. 17). Template 116 is generally divided into a first or content items section 118 and a second or template section 120.

As with content section 48 described above, content items section 118 includes a variety of content that can be utilized to create the report template. This content can be the same as or different from the content in section 48.

[0027] Report templates can be generated by utilizing a mouse or other known hardware to drag and drop items from content items section 118 to template section 120 in the same manner as described above with respect to "create new letter" template 46. For example, in the template shown in Fig. 18, the "healthcare provider 1 name" content 122 and "healthcare provider 1 contact" content 124 have been dragged and dropped from content items section 118 to template section 120. The basal profiles graph 126 (which displays information relating to insulin) has also been dragged and dropped into template section 120. As with building letters templates, the user may select any desired combination of the content items for use in template section 120. If the user desires to preview the template prior to saving it, the user simply activates the "preview" icon 128. This causes a "report preview" window 130 to be displayed which shows the format of the report produced by the template (Fig. 19). To return to the "create new report" template 116, the user simply selects the "close" icon 132.

[0028] When building custom report templates, the user can adjust the scale and content of the graphs and other information that have been dragged and dropped to template section 120 in the same manner as described above. For example, if the user desires to alter the graph 126, he or she can position a cursor over the graph and click. This causes a boundary box 134 to be displayed around graph 126 and a graph content menu 136 to be displayed at the bottom of template section 120 (Fig. 20). The cursor can then be used to expand or contract boundary box 134 to increase or decrease the size of graph 126. Changing the size of graph 126 also causes the x and y axes to be resized as needed. Note that in Fig. 20, graph 126 included slide bar 138 because graph 126 is not large enough to appropriately display the entire graph. When graph 126 is sufficiently enlarged, slide bar 138 disappears (Fig. 21). Graph content menu 136 allows the user to display the graph key, statistics and to otherwise alter the content and form of graph 126 in the same manner as described in connection with creating custom letter templates.

[0029] When the user is satisfied with the content of template section 120, he or she selects "OK" icon 140 to save the template. Selecting "OK" icon 140 returns the user to "reports menu" 96 which now includes a newly created Basal Profile report (Fig. 22). Alternatively, the user can select "cancel" icon 142 to abandon the operation and return to "reports menu" 96. Report templates can be deleted and edited in the same manner as described above by selecting icons 100 or 102. Selecting the "close" icon 104 returns the user to the "advanced reports and letters" menu 14.

[0030] Referring again to Fig. 2, selecting "build batch reports" icon 24 displays a "batch reports menu" 144 that lists the available batch reports stored in the system (Fig. 23). A batch report is a combination of previously defined report templates that are stored in the system. In the example shown in Fig. 23, no batch reports have been defined. "Batch reports menu" 144 includes a "create new" icon 146, an "edit" icon 148, a "delete" icon 150 and a "close" icon 152.

[0031] To create new batch report templates, the user selects "create new" icon 146 which causes "create new batch report" screen 154 to display (Fig. 24). "Create new batch report" screen 154 includes a text box 156 for entering the name of the new batch report and a text box 158 for entering a description of the new report. Entering text in boxes 156 and 158 causes "OK" icon 160 to become active. "Create new batch report" screen 154 further includes a "cancel" icon 162. As with the "create new report" screen 106, screen 154 allows the user to select a "patient report" option 164 or a group report option 166.

[0032] After entering the batch report name and description, selecting "OK" icon 160 displays a "create new batch report" list 164 (Fig. 25). List 164 displays the report's name in field 166 and the description in field 168. List 164 also identifies the report type in field 170. List 164 further includes a drop down menu 172 that allows the user to select between various report categories, such as standard reports, favorite reports and custom reports (Figs. 25 and 26). For example, in Fig. 25, the standard reports category is selected in menu 172 and a list of standard reports stored in the system database appears in list field 174. Selecting "custom reports" from menu 172 displays the stored custom reports in field 174 (Fig. 27). "Create new batch report" list 164

further includes "add" icon 176, "remove" icon 178, "add all" icon 180 and "remove all" icon 182. List 164 further includes an included reports field 184, "OK" icon 186 and "cancel" icon 188.

[0033] To create a batch report, the user highlights the desired report (such as the basal profile report as shown in Fig. 27) and selects "add" icon 176. This causes the desired report to be displayed in included report field 84. Highlighting the "overview" report and selecting "add" icon 176 causes that report to be added to included reports field 184 as well (Fig. 29). To remove a report from included report field 184, the user highlights the report and selects "remove" icon 178. Selecting "add all" icon 180 or "remove all" icon 182 will display all of the reports shown in field 174 in included report field 184 or remove all of the reports shown in included report field 184, respectively.

[0034] Once a report has been added to included reports field 184, the user may change the report date range. This is done by highlighting a report in field 184, which activates "change date range" icon 190 and scroll arrows 192 (Fig. 30). Selecting "change date range" icon 190 displays a "change date range" screen 194 (Fig. 31). The user can then select the desired date range from drop down menu 196. Alternatively, the user may select "calendar" icon 198 to display a select date range screen 200 (Fig. 32). The user can then select the desired dates from calendars 198, 200 as known in the art or enter the desired dates in text boxes 202A, 204B. When the user has selected the desired date range, selecting "OK" icon 206 returns the user to "change date range" screen 194. Alternatively, the user can abandon the operation by selecting "cancel" icon 208. Similarly, selecting "OK" icon 210 or "cancel" icon 212 from "change date range" screen 194 either saves the changes or abandons the operation.

[0035] When the user is satisfied with the reports to be included in the new batch report, he or she selects "OK" icon 186 which returns the user to "build batch reports" screen 144, which now displays the newly created batch report (Fig. 33). Alternatively, selecting "cancel" icon 188 will abandon the operation and return the user to "build batch report" screen 144. To edit a batch report, the user highlights the report on screen 144 and selects the "edit" icon 148. This returns the user to an "edit batch report" screen (not shown) similar to list 164 and allows the user to edit the report

through the use of icons 176 through 182. To delete a batch report, the user highlights the report on screen 144 and selects "delete" icon 150

[0036] Note that in one embodiment of the invention, batch reports can be created that include other batch reports. To do so, the user simply selects the "create new" icon 146 to be taken to the "create new batch report" screen 154. The user then enters the name and description of the report as described above. List 164 will then be displayed. Previously stored batch reports will be included in field 174 when the appropriate report category is selected from menu 172. The batch reports could be stored in a separate category, such as one entitled "batch reports," or could be stored as custom or favorite reports. The previously defined batch reports are then added to "included reports" field 184 as described above and other batch reports or individual reports are added to the field to create a new batch report.

[0037] Return again to Fig. 2, selecting "print/e-mail/fax letters" icon 16 displays a "select patients" screen 218 (Fig. 34). "Select patients" screen 218 includes a drop down menu 220 that allows the user to display either a list of individual patients or a list of patient groups in field 222. "Select patients" screen 218 further includes "add" icon 224, "remove" icon 226, "add all" icon 228 and "remove all" icon 230. Screen 218 further includes an included patient field 232, a "back" icon 234, a "next" icon 236 and a "cancel" icon 238. To add a patient or group to included patient field 232, the user highlights the desired patient name and selects "add" icon 224 (Fig. 35). This causes the patient's name to be displayed in included patient field 232. As shown in Fig. 35, two patients have been selected. If the "groups" option had been selected from drop down menu 220, the selected patient groups would be included in field 232.

[0038] Once the user has populated field 232 as desired, he or she selects "next" icon 236 to display "select letter" screen 240 (Fig. 36). Screen 240 includes a listing of the available letters in field 242, "add" icon 244, "remove" icon 246, "add all" icon 248 and "remove all" icon 250. Screen 240 further includes an included letters field 252. To add a letter to field 252, the user highlights the letter in field 242 and selects "add" icon 244. Icons 246-250 are utilized to remove added letters from field 252 or to add and remove all letters to or from field 252 in the same manner as described above. Icons

234 and 236 are used to navigate between the various screens. Note that "select letter" screen 240 further includes a "preview" icon 254 that allows the user to preview the letter to be generated in a manner similar to that described above.

[0039] After the user has populated field 252, he or she selects "next" icon 236 to display "select output" screen 256 (Fig. 37). "Select output" screen 256 includes a print option 258, an e-mail option 260 and a fax option 262. Note that options for printing, e-mailing and faxing are shown only as examples. Other embodiments of the invention could utilize additional or other output devices, such as text messaging sent to a cellular phone, output to a web page or other means of communication. Note also that in other embodiments of the invention, the user can be provided with a language selection screen or drop down menu (not shown) at a desired time during the process to allow the user to select the output language for the letters. In this manner, a user who speaks one language, such as English, can generate letters to a patient who speaks another language, such as Spanish. Different languages can be selected for different patients or patient groups.

[0040] In the example shown in Fig. 37, print option 258 and e-mail option 260 have been selected. Once the desired options are selected, selecting "finish" icon 264 begins the letter output process. For example, selecting icon 264 will cause the system to retrieve from the database the information required to complete the selected letter templates for each patient or group. For example, the system will retrieve patient names, blood glucose readings or other information defined by the template. The selected letters for the selected patients will then print to a previously selected default printer. Alternatively, the system could be configured to display a printer menu so that a different printer could be selected. Similarly, selecting "finish" icon 264 will display a blank e-mail message 266 with the previously selected patient letter or letters attached (Fig. 38). The user can then input the recipient's address and a message before sending the e-mail. In the example shown in Fig. 37, had fax option 262 also been selected, selecting "finish" icon 264 would activate the fax drivers to transmit the selected letters.

[0041] Note that selecting "finish" icon 264 causes the system to output the letters in all of the selected output formats but that the sequence in which this occurs is not relevant. For example, e-mail message 266 shown in Fig. 38 could be displayed prior to the various print options discussed above.

[0042] Returning again to Fig. 2, selecting "print/e-mail/fax" icon 18 displays a "select report type" screen 268 (Fig. 39). Screen 268 allows the user to select a patient report option 270 or a group report option 272. Selecting patient report option 270 and "next" icon 276 displays a "select patients" screen 280 as shown in Fig. 40. Note that although patient report option 270 was selected, drop down menu 282 also includes a "group reports" category (not shown) which would cause a listing of the patient groups to be displayed in field 284 as opposed to the patient listing as shown in Fig. 40. Icons 286, 288, 290 and 292 are used to add and remove patients from field 294 in the same manner as described above. Note also that selecting group reports option 272 in Fig. 39 displays "select groups" screen 296 that allows the user to populate included group field 298 using icons 300, 302, 304 and 306 (Fig. 41).

[0043] After the desired patients or groups have been selected, selecting "next" icon 276 displays a "select reports" screen 308. "Select reports" screen 308 includes a report list field 310, the contents of which are dictated by the options selected from drop down menu 312. Icons 314, 316, 318 and 320 are used to populate included report field 322 in the same manner as previously discussed. Screen 308 also includes a "preview" icon 324 for previewing the selected reports. Once field 322 has been populated, selecting "next" icon 276 causes a select output screen identical to that shown in Fig. 37 to be displayed, except that the screen bears the heading "print/e-mail/fax reports - select output." The reports are then outputted in the same manner as described above in conjunction with the letters output.

[0044] While this invention has been described as having an exemplary design, the present invention may be further modified within the spirit and scope of this disclosure. For example, the system software can be run on any processing device with sufficient memory and other system requirements, such as a cellular phone, PDA, blood glucose meter, an integrated device including an analyte measurement engine, or other

device. Although the system has been described for use in connection with the treatment of diabetes, it can also be used in connection with other medical conditions. Furthermore, the various types of reports, letters, graphs and content are shown merely for purposes of illustration. Other reports, letters, graphs and content could also be used. It should further be noted that use of the term "graph" in this description is intended to cover any type of graphical display of information, such as histograms, pie charts, line graphs, bar charts, etc. Similarly, what is described as a report in the discussion above could be considered a letter and what is described as letter could be considered a report. Accordingly, these terms can be considered interchangeable and the software described above could combine the custom report building functionality with the custom letter building functionality. The same is true of the print/e-mail/fax functionalities. Thus, this application is intended to cover any variations, uses, or adaptations of the invention using its general principles. Further, this application is intended to cover such departures from the present disclosure as come within known or customary practice in the art to which this invention pertains.

WHAT IS CLAIMED IS:

1. A method of outputting a report in multiple formats, including the steps of:
 - selecting a report recipient;
 - selecting a report template;
 - selecting at least two formats in which the report will be output;
 - populating the report template; and
 - outputting the report in the selected formats.
2. The method according to claim 1, wherein an e-mail is one of the selected output formats.
3. The method according to claim 1, wherein a printed copy is one of the selected output formats.
4. The method according to claim 1, wherein a fax is one of the selected output formats.
5. The method according to claim 1, wherein a text message is one of the selected output formats.
6. The method according to claim 1, wherein a posting to a web page is one of the selected output formats.
7. The method according to claim 1, wherein the recipient is selected from a list.
8. The method according to claim 1, wherein the report template is selected from a list.
9. The method according to claim 1, wherein a report is output to the recipient in at least one of the selected formats.
10. The method according to claim 1, wherein the report template is populated with data stored in a database.
11. The method according to claim 10, wherein the data relates to the recipient.

12. The method according to claim 10, wherein the data relates to a medical condition of the recipient.
13. The method according to claim 1, further including the step of selecting a language in which at least one format of the report will be output.
14. The method according to claim 1, further including the step of selecting a first language in which one format of the report will be output and selecting a second language in which a second format of the report will be output.
15. The method according to claim 1, further including the steps of selecting a second report template, populating the second report template and outputting a second report in the selected formats.
16. A method of outputting a report in multiple formats, including the steps of:
 - selecting at least two report recipients;
 - selecting a report template;
 - selecting at least two formats in which the report will be output;
 - populating the report template; and
 - outputting the report in the selected formats.
17. The method according to claim 16, wherein at least one of the report recipients receives the report in at least two of the selected output formats.
18. The method according to claim 16, wherein one recipient receives the report in one of the selected output formats and a second recipient receives the report in a different one of the selected output formats.
19. The method according to claim 16, wherein the report template is populated with data stored in a database.
20. The method according to claim 16, wherein the report template is populated with a first set of data stored in a database to generate a first report to be output to a first one of the recipients and the template is populated with a second set of data stored in a database to generate a second report to be output to a second one of the recipients.

21. The method according to claim 20, wherein the first set of data relates to the first recipient and the second set of data relates to the second recipient.
22. The method according to claim 21, wherein the first set of data relates to a medical condition of the first recipient and the second set of data relates to a medical condition of the second recipient.
23. The method according to claim 16, further including the step of selecting a language in which at least one format of the report will be output.
24. The method according to claim 16, further including the step of selecting a first language in which one format of the report will be output and selecting a second language in which a second format of the report will be output.
25. The method according to claim 16, further including the step of selecting a first language in which the report is generated to be output to a first one of the recipients and selecting a second language in which the report is generated to be output to a second one of the recipients.
26. The method according to claim 16, further including the steps of selecting a second report template, populating the second report template and outputting a second report in the selected formats.
27. A system for outputting a report in multiple formats, including:
- a database;
 - a plurality of report recipients stored in the database;
 - a plurality of report templates stored in the database;
 - data stored in the database for populating the report templates to produce reports; and
 - means for selecting the formats in which the reports are output.
28. The system according to claim 27, further including means for selecting the report recipients.

29. The system according to claim 27, further including means for selecting the report templates.

30. The system according to claim 27, further including means for selecting the languages in which the reports are output.

31. The method according to claim 1, wherein one of the selected output formats is a file configured for access by a computer system.

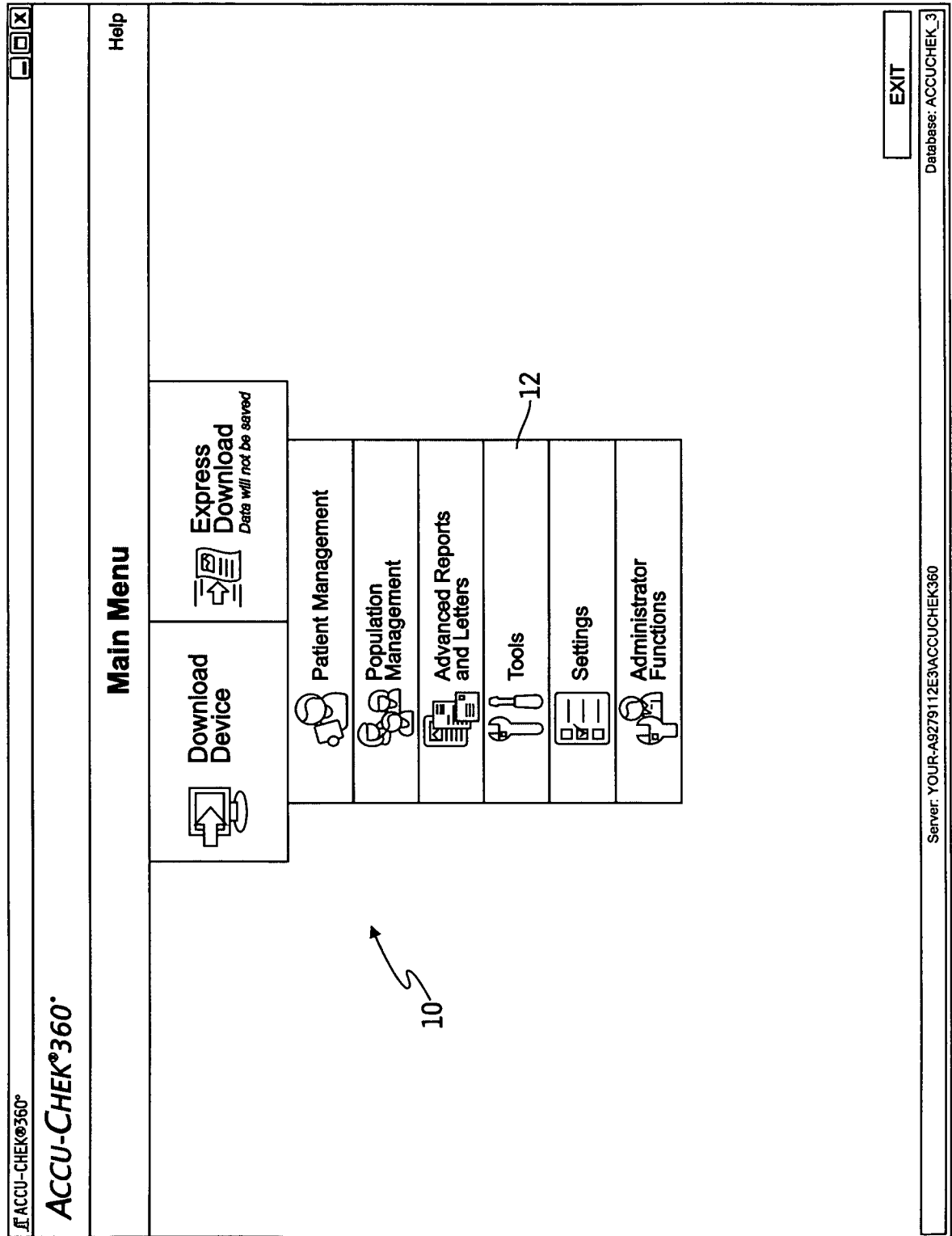


FIG. 1

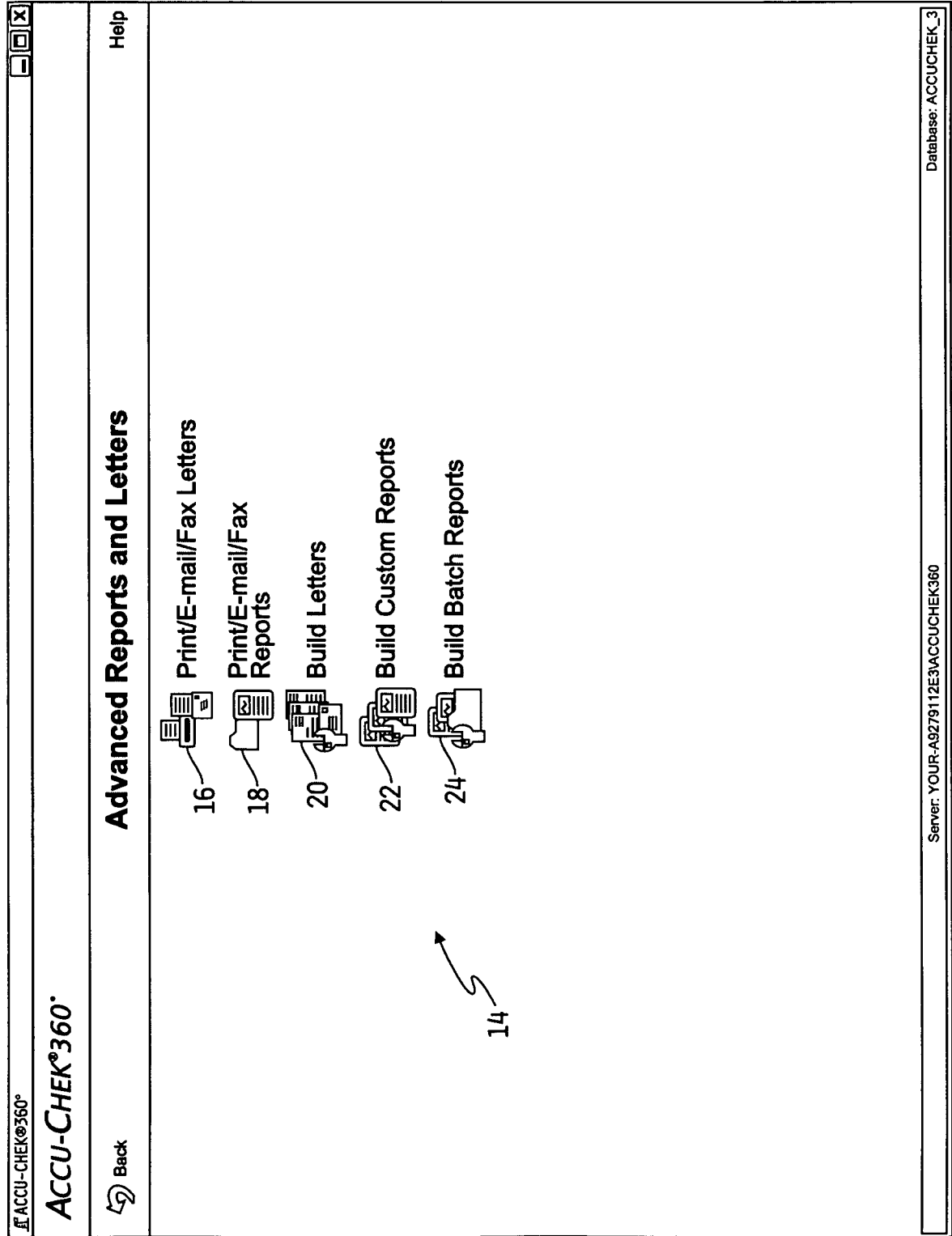


FIG. 2

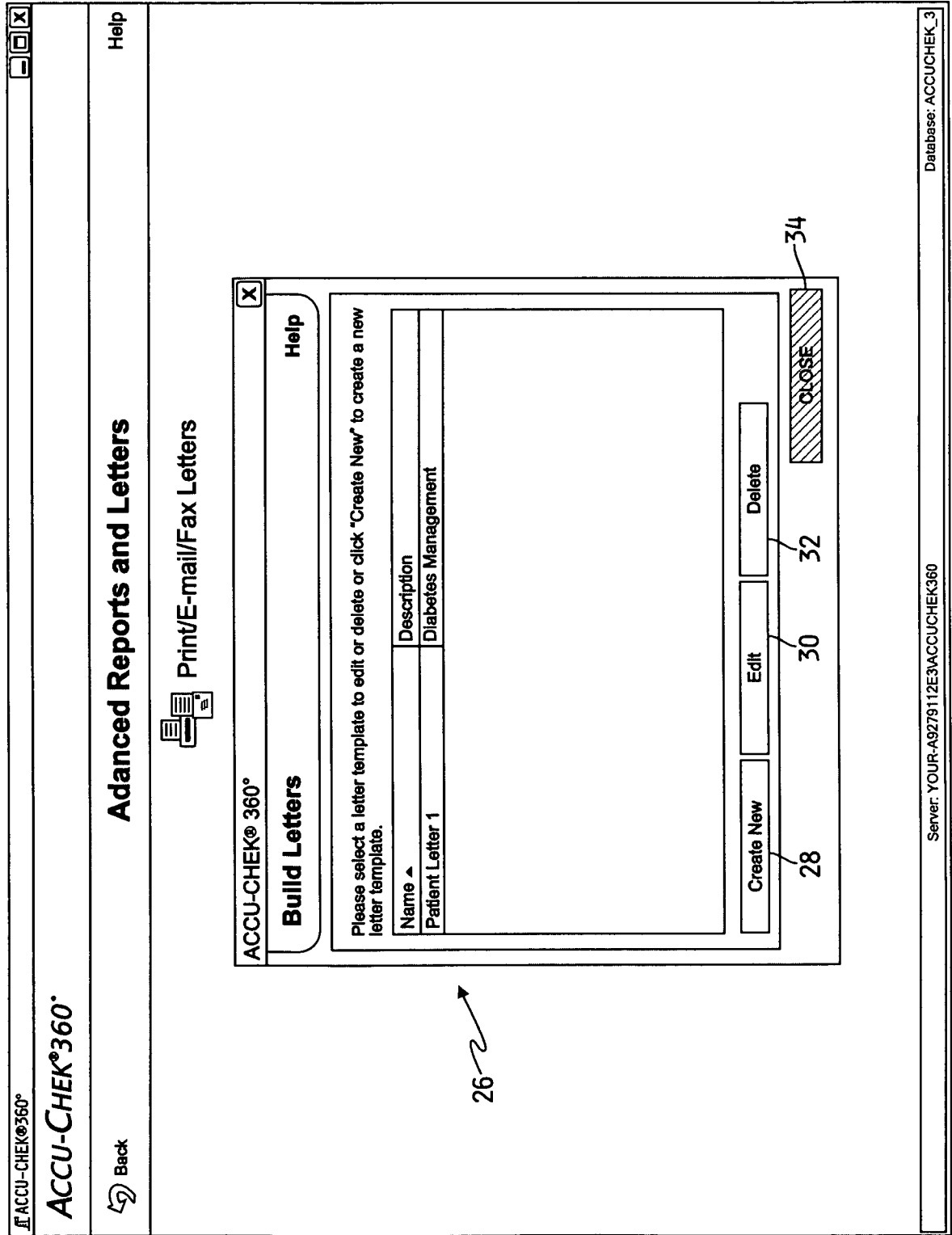


FIG. 3

ACCUCHEK®360°

ACCUCHEK®360°

Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360°

Build Letters

Help

ACCUCHEK® 360°

Create New Letter

Help

Enter information about the letter template you want to create, then click "OK" to begin.

Letter Name: *

38

Description:

40

* Required Field

42

OK

44

CANCEL

Create New

Edit

Delete

CLOSE

36

Database: ACCUCHEK_3

Server: YOUR-A9279112E3\ACCUCHEK360

FIG. 4

ACCUCHEK®360°

ACCUCHEK®360°

ACCUCHEK®360°

Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360°

Build Letters

ACCUCHEK® 360°

Create New Letter

Help

Enter Information about the letter template you want to create, then click "OK" to begin.

Letter Name: * Patient Letter 2 38

Description: Blood Glucose 40

* Required Field

OK 42

CANCEL 44

Create New Edit Delete

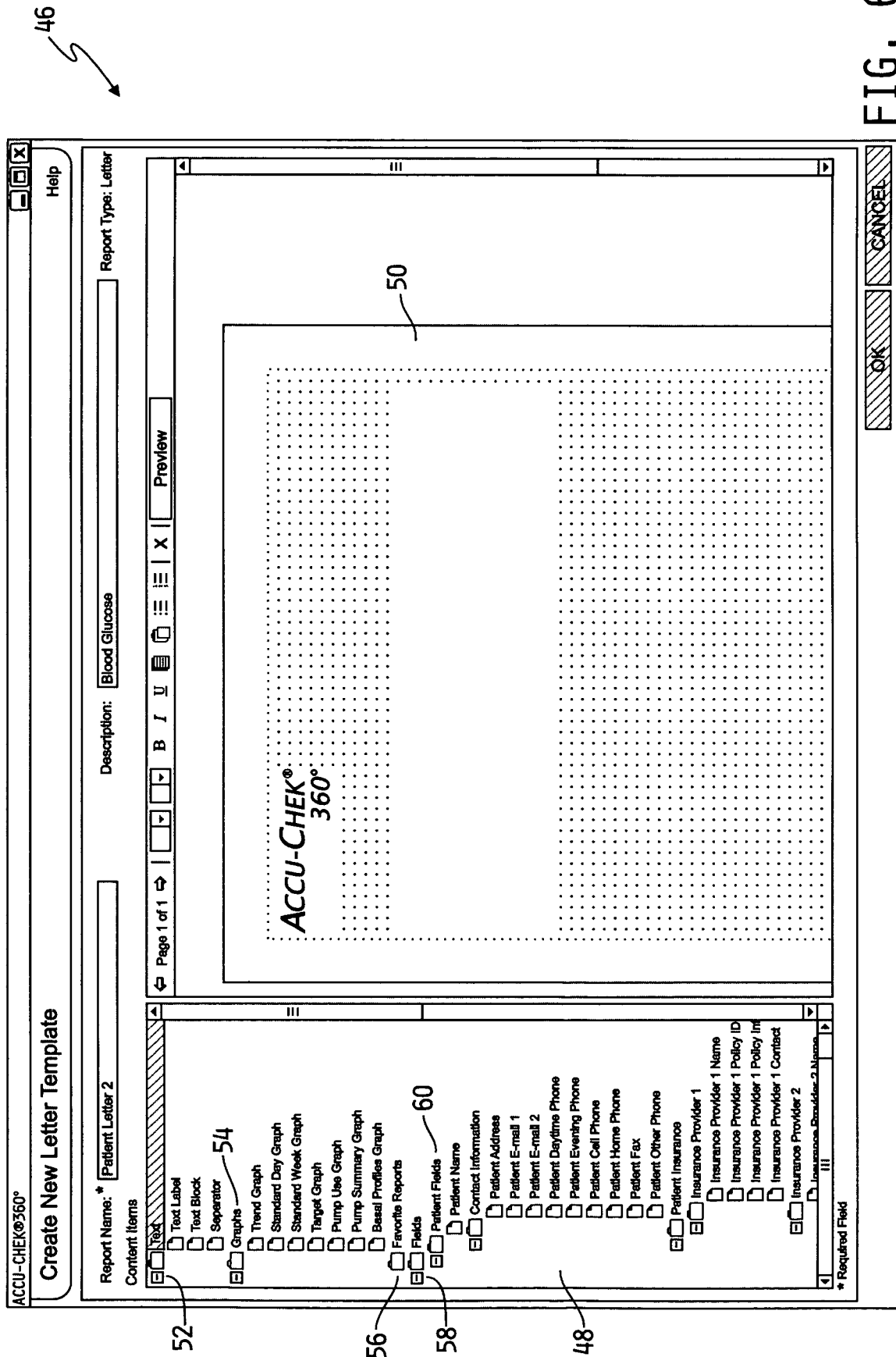
CLOSE

36

Database: ACCUCHEK_3

Server: YOUR-A9279112E3\ACCUCHEK360

FIG. 5



46

ACCUCHEK® 360°

Create New Letter Template

Report Name: * Description: Report Type: Letter

Content Items

- ☐ Healthcare Provider 1 Name
- ☐ Healthcare Provider 1 Practice
- ☐ Healthcare Provider 1 Specialist
- ☐ Healthcare Provider 1 Contact
- ☐ Healthcare Provider 2
- ☐ Healthcare Provider 2 Name
- ☐ Healthcare Provider 2 Practice
- ☐ Healthcare Provider 2 Specialist
- ☐ Healthcare Provider 2 Contact
- ☐ Healthcare Provider 3
- ☐ Healthcare Provider 3 Name
- ☐ Healthcare Provider 3 Practice
- ☐ Healthcare Provider 3 Specialist
- ☐ Healthcare Provider 3 Contact
- ☐ Healthcare Provider 4
- ☐ Healthcare Provider 4 Name
- ☐ Healthcare Provider 4 Practice
- ☐ Healthcare Provider 4 Specialist
- ☐ Healthcare Provider 4 Contact
- ☐ Patient Demographic
- ☐ Patient Age
- ☐ Patient Date of Birth
- ☐ Patient Ethnicity
- ☐ Patient Gender
- ☐ Diabetes
- ☐ Date Diagnosed
- ☐ Diabetes Type
- ☐ Controlled By
- ☐ Targets
- ☐ Document Fields
- ☐ Report Title
- ☐ Page x of y
- ☐ Date Printed

Page 1 of 1

Preview

50

ACCUCHEK® 360°

48

62

OK CANCEL

FIG. 7

46

50

72

68

70

64

66

48

FIG. 8

ACCU-CHEK®360°

Create New Letter Template

Report Name: * [Patient Letter 2] Description: [Blood Glucose] Report Type: Letter

Page 1 of 1

Content Items

- ☐ Text
- ☐ Text Label
- ☐ Text Block
- ☐ Separator
- ☐ Graphs
 - ☐ Trend Graph
 - ☐ Standard Day Graph
 - ☐ Standard Week Graph
 - ☐ Target Graph
 - ☐ Pump Use Graph
 - ☐ Pump Summary Graph
 - ☐ Basal Profiles Graph
- ☐ Favorite Reports
- ☐ Fields
 - ☐ Patient Fields
 - ☐ Patient Name
 - ☐ Patient Address
 - ☐ Patient E-mail 1
 - ☐ Patient E-mail 2
 - ☐ Patient Daytime Phone
 - ☐ Patient Evening Phone
 - ☐ Patient Cell Phone
 - ☐ Patient Home Phone
 - ☐ Patient Fax
 - ☐ Patient Other Phone
 - ☐ Patient Insurance
 - ☐ Insurance Provider 1
 - ☐ Insurance Provider 1 Name
 - ☐ Insurance Provider 1 Policy ID
 - ☐ Insurance Provider 1 Policy Int
 - ☐ Insurance Provider 1 Contact
 - ☐ Insurance Provider 2
 - ☐ Insurance Provider 2 Name

Preview

<<Patient Name>>

<<Patient Address>>

Standard Week - bG - All (14.10.2007-13.11.2007)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
bG - All (mmol/L)	22.0	20.0	18.0	14.0	12.0	10.0	8.0
Sample	x	x	x	x	x	x	x
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Your blood glucose readings are displayed above.

OK CANCEL

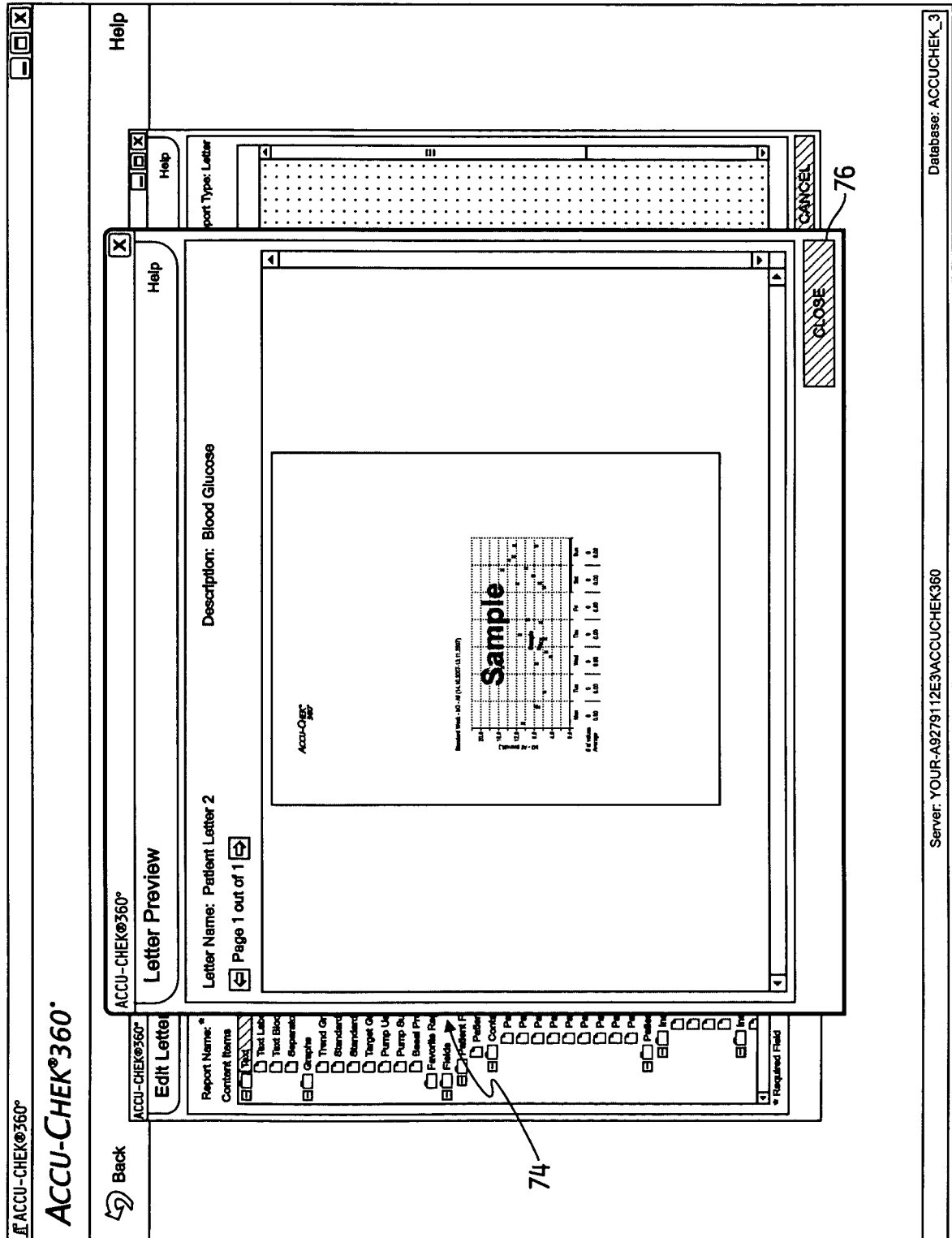
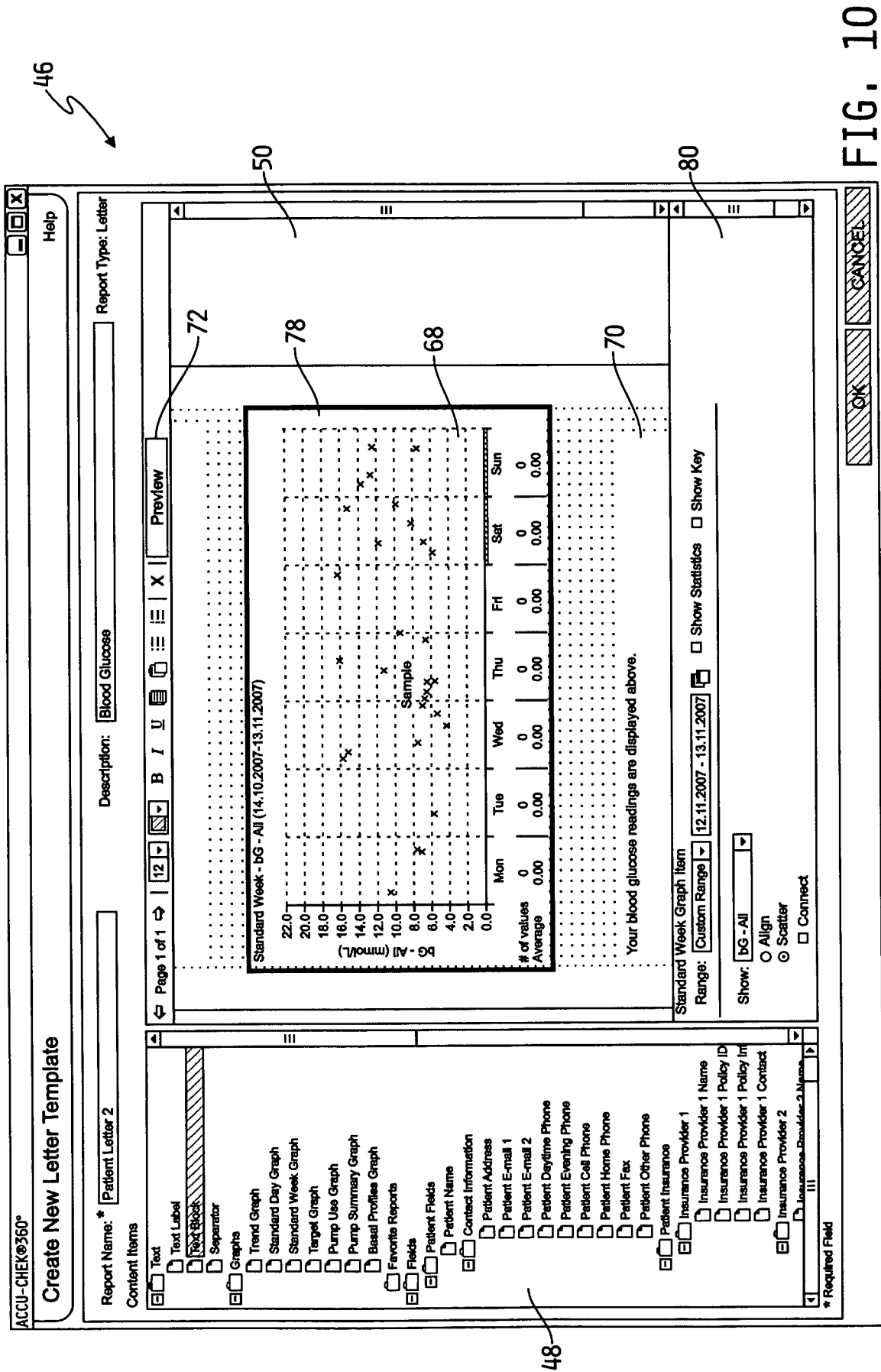


FIG. 9



46

48

50

70

72

78

80

82

92

94

FIG. 11

ACCU-CHEK®360°

Edit Letter Template

Report Name: * Patient Letter 2

Description: Blood Glucose

Report Type: Letter

Page 1 of 1

Preview

Text

Text Label

Text Block

Separator

Graphs

Trend Graph

Standard Day Graph

Standard Week Graph

Target Graph

Pump Use Graph

Pump Summary Graph

Basal Profile Graph

Favorite Reports

Fields

Patient Fields

Patient Name

Contact Information

Patient Address

Patient E-mail 1

Patient E-mail 2

Patient Daytime Phone

Patient Evening Phone

Patient Cell Phone

Patient Home Phone

Patient Fax

Patient Other Phone

Patient Insurance

Insurance Provider 1

Insurance Provider 1 Name

Insurance Provider 1 Policy ID

Insurance Provider 1 Policy Int

Insurance Provider 1 Contact

Insurance Provider 2

Insurance Provider 2 Name

* Required Field

Standard Week - BG - All (14.10.2007-13.11.2007)

BG - All (mmol/L)

20.0

16.0

12.0

8.0

4.0

0.0

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Sample

of values 0 0 0 0 0 0 0

Average 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Your blood glucose readings are displayed above.

Show: BG - All

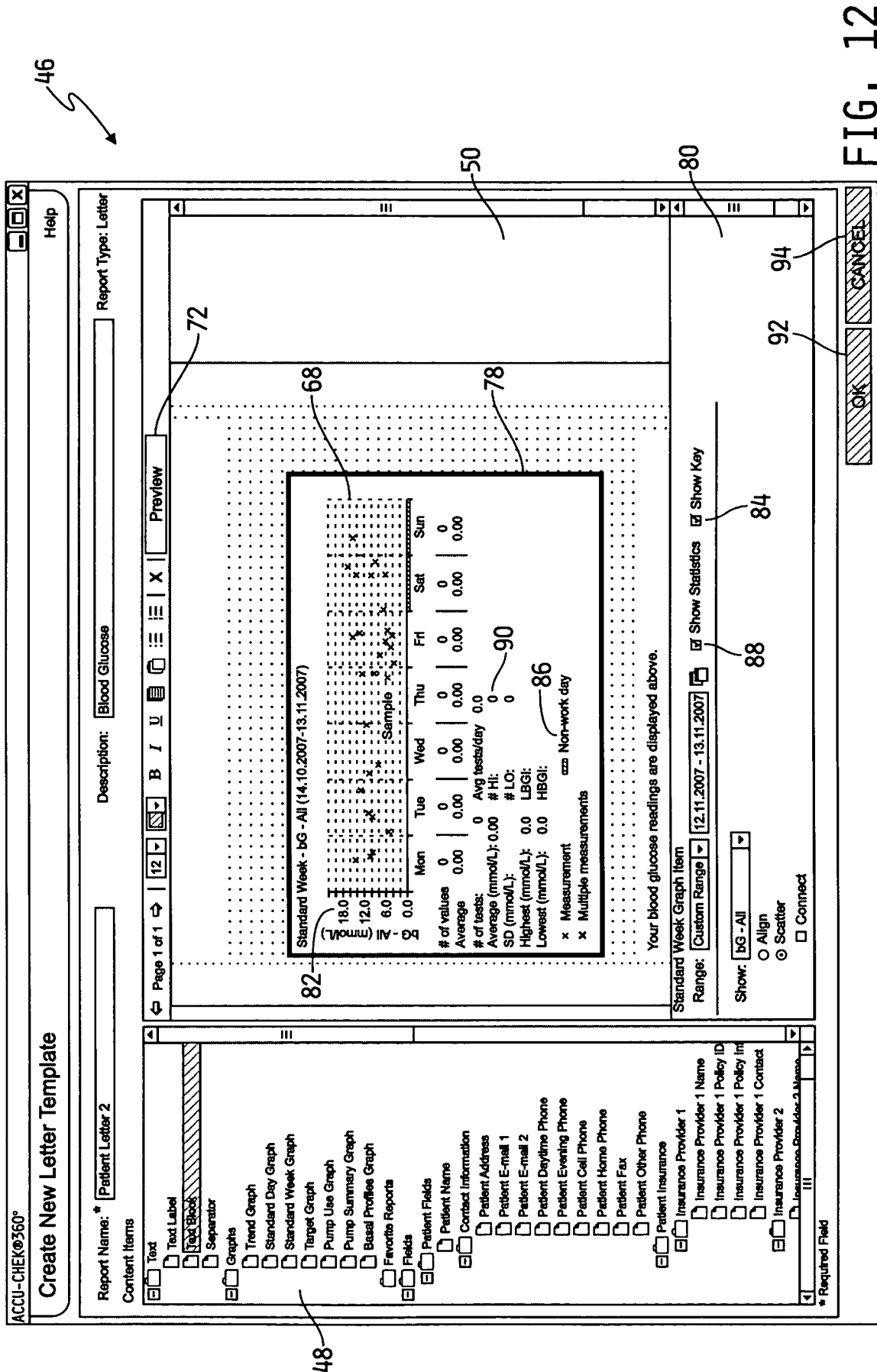
Align

Scatter

Connect

OK

CANCEL



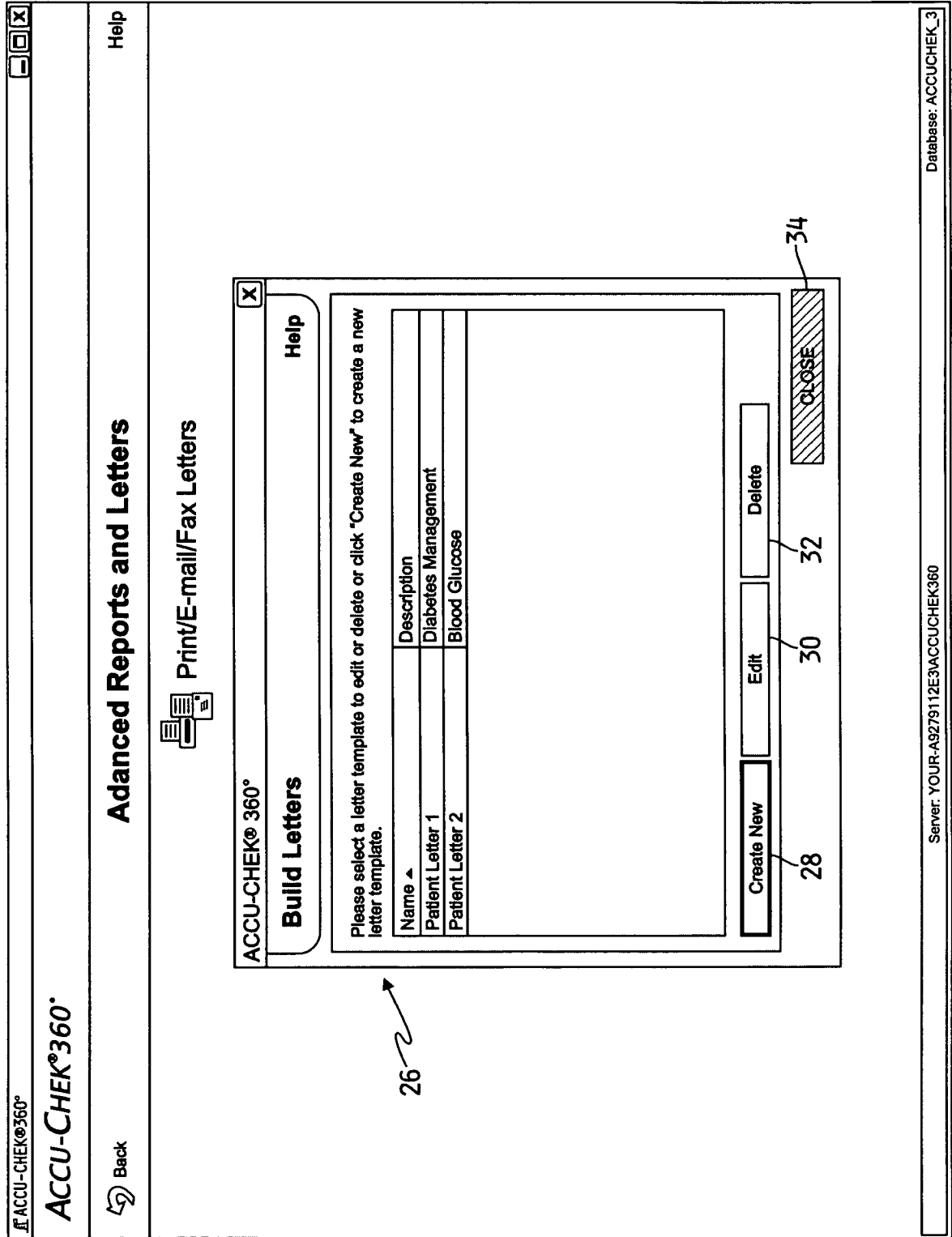


FIG. 13

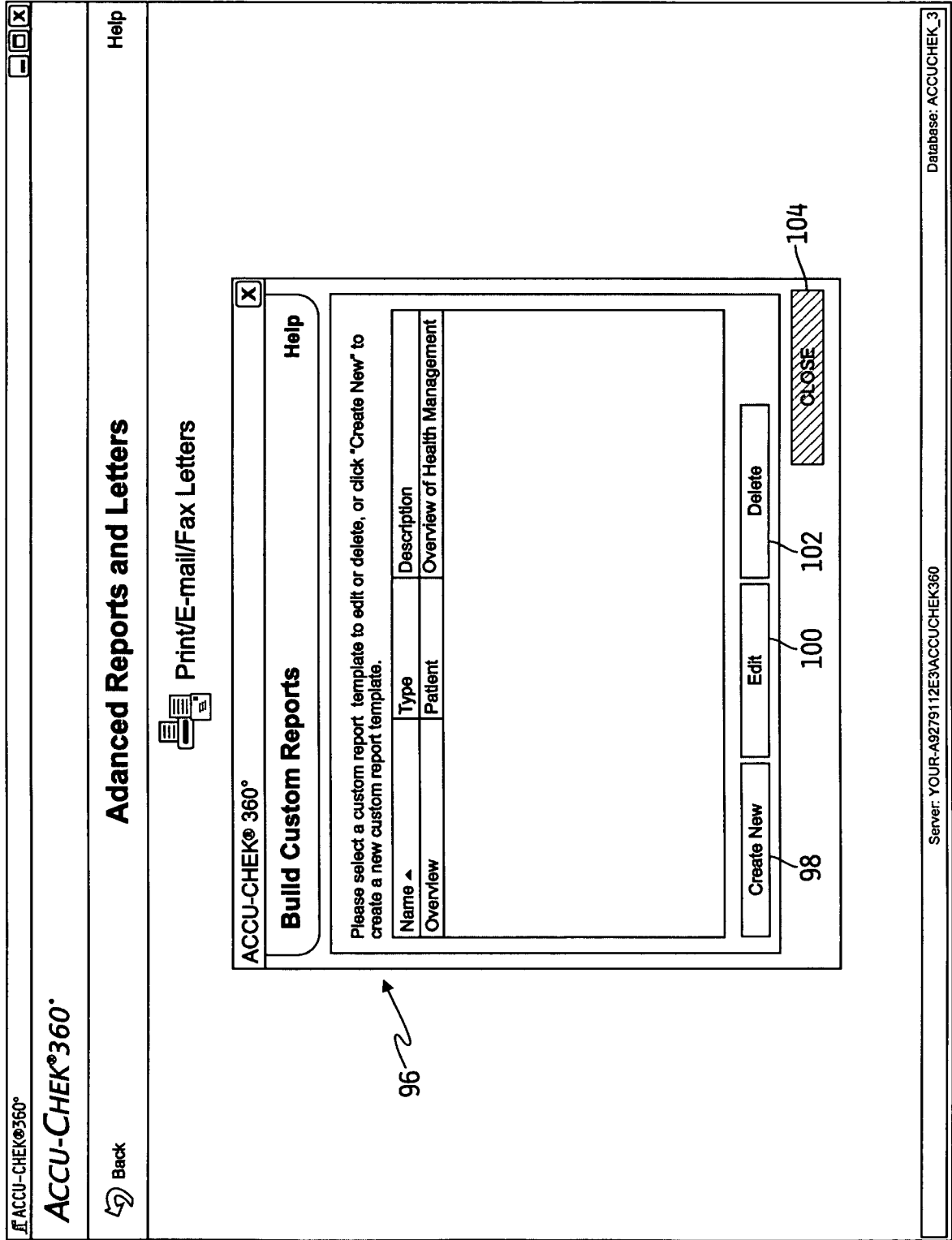


FIG. 14

ACCUCHEK®360°

ACCUCHEK®360°

Back

Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360°

Build Custom Reports

Help

ACCUCHEK® 360°

Create New Custom Report

Help

Enter information about the custom report template you want to create, then click "OK" to begin.

Report Name: *

108

Description:

110

Type:

110A

110B

* Required Field

Create New

Edit

Delete

OK

CANCEL

CLOSE

Server: YOUR-A9279112E3\ACCUCHEK360 Database: ACCUCHEK_3

FIG. 15

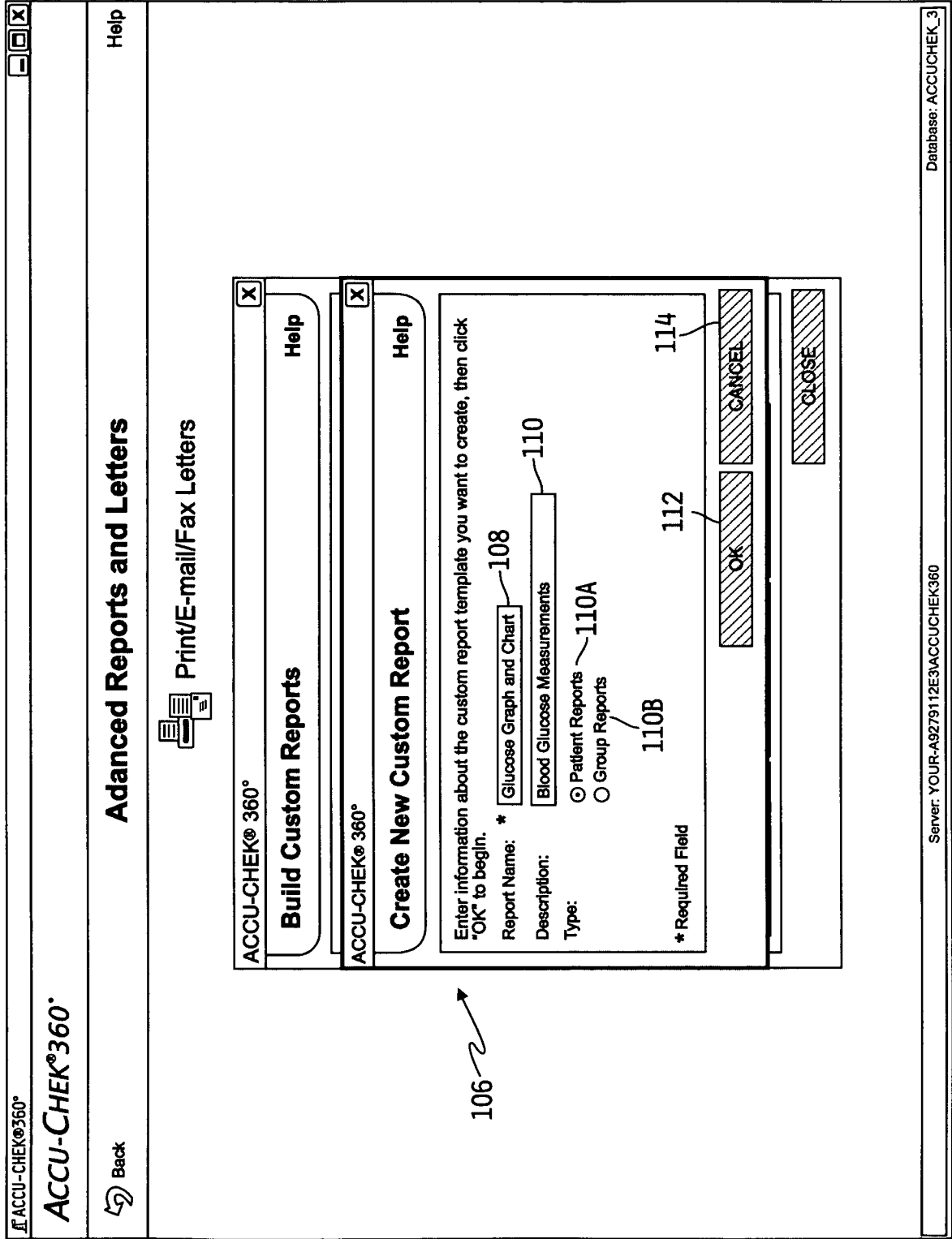
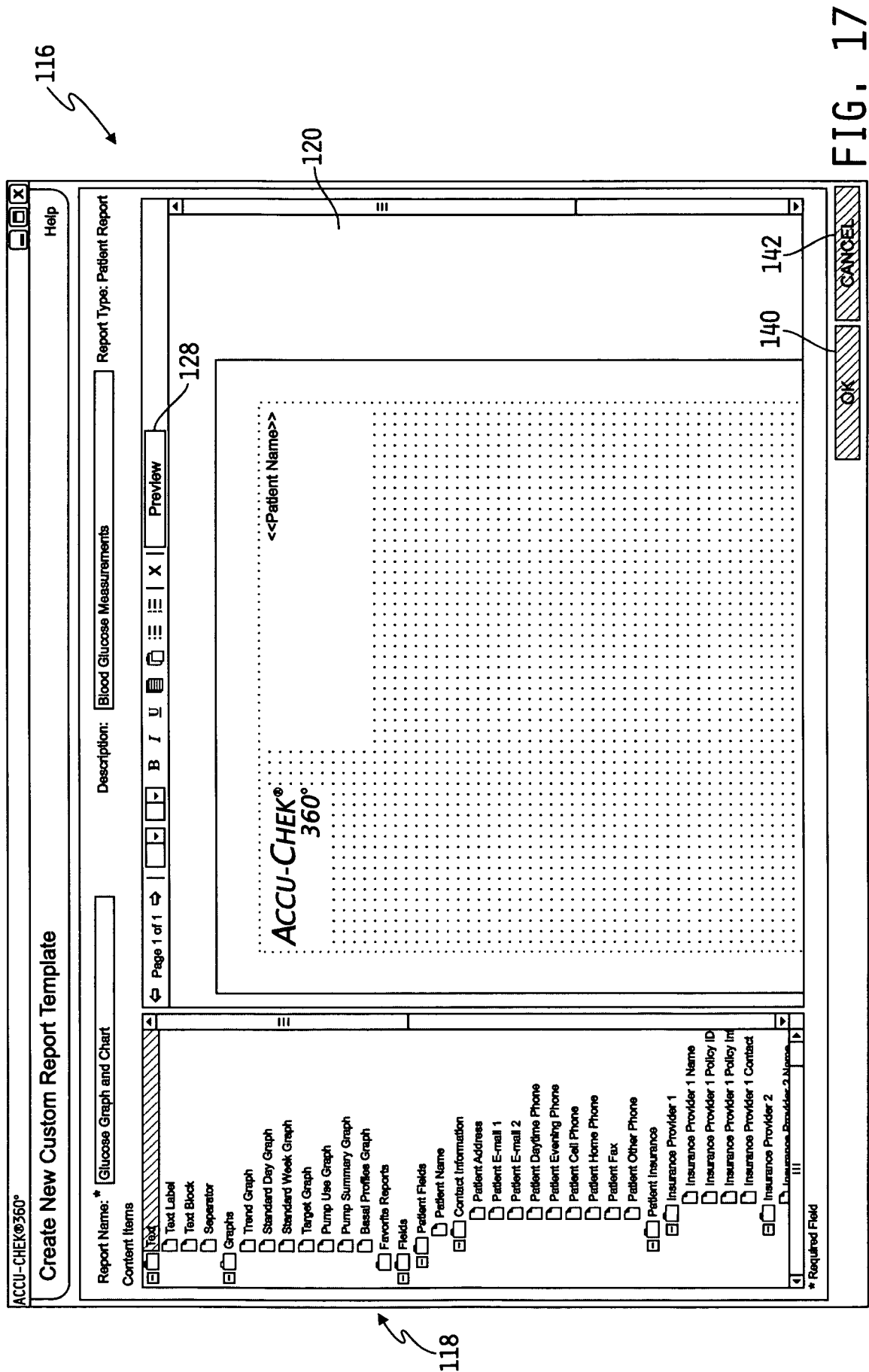


FIG. 16



ACCUCHEK®360°

Create New Custom Report Template

Report Name: * Basal Profile

Content Items

- ☐ Text
 - ☐ Text Label
 - ☐ Text Block
 - ☐ Separator
- ☐ Graphs
 - ☐ Trend Graph
 - ☐ Standard Day Graph
 - ☐ Standard Week Graph
 - ☐ Target Graph
 - ☐ Pump Use Graph
 - ☐ Pump Summary Graph
 - ☐ Basal Profile Graph
- ☐ Favorite Reports
- ☐ Fields
 - ☐ Patient Fields
 - ☐ Patient Name
 - ☐ Contact Information
 - ☐ Patient Address
 - ☐ Patient E-mail 1
 - ☐ Patient E-mail 2
 - ☐ Patient Daytime Phone
 - ☐ Patient Evening Phone
 - ☐ Patient Cell Phone
 - ☐ Patient Home Phone
 - ☐ Patient Fax
 - ☐ Patient Other Phone
 - ☐ Patient Insurance
 - ☐ Insurance Provider 1
 - ☐ Insurance Provider 1 Name
 - ☐ Insurance Provider 1 Policy ID
 - ☐ Insurance Provider 1 Policy Int
 - ☐ Insurance Provider 1 Contact
 - ☐ Insurance Provider 1 Contact
 - ☐ Insurance Provider 2

* Required Field

Description: Dual Graph Report

Page 1 of 1

Report Type: Patient Report

116

118

120

122

124

126

128

140

142

OK

CANCEL

FIG. 18

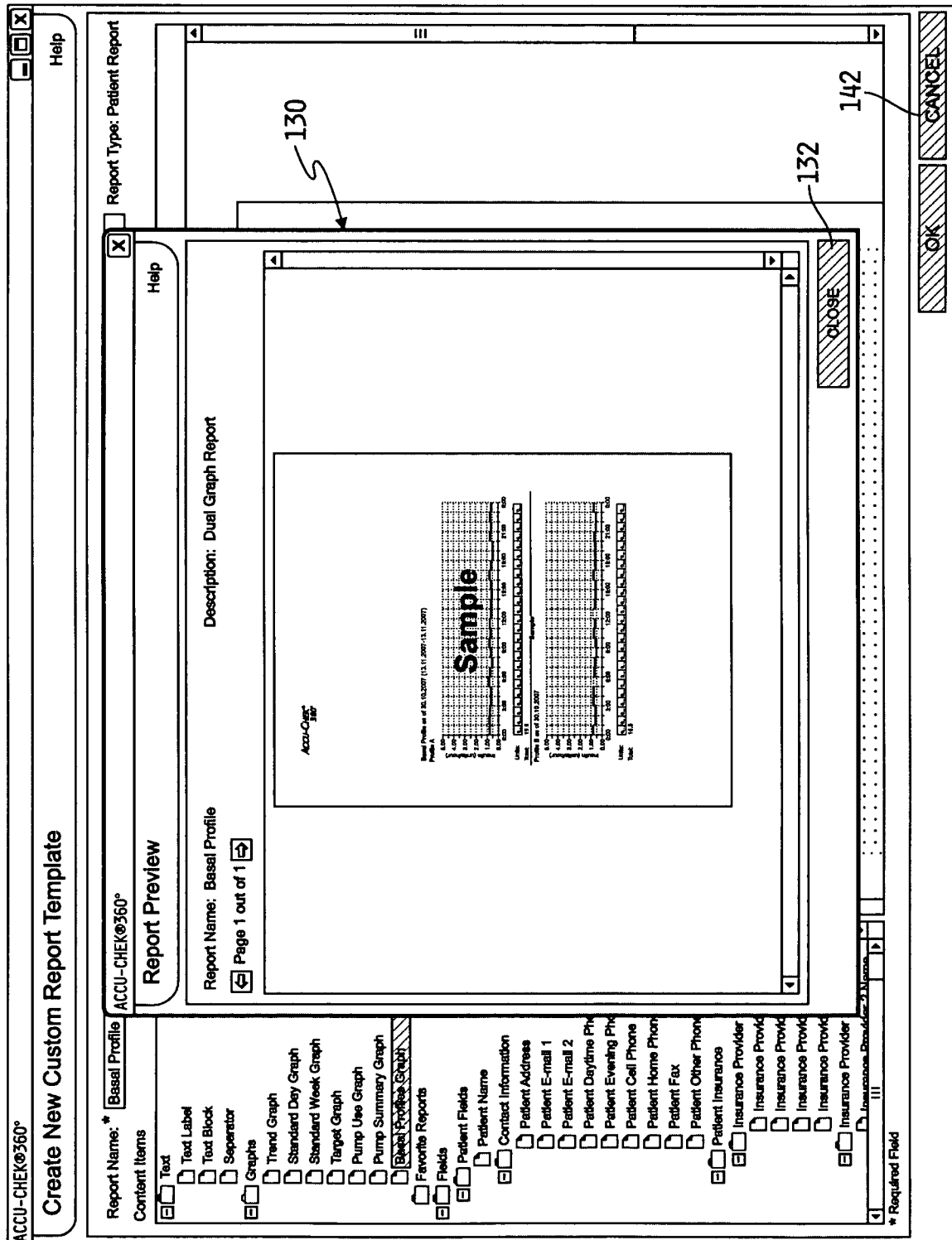


FIG. 19

116

118

120

126

128

134

136

138

140

142

FIG. 20

ACCU-CHEK®360°

Create New Custom Report Template

Report Name: * Basal Profile

Content Items

- ☐ Text
- ☐ Text Label
- ☐ Text Block
- ☐ Separator
- ☐ Graphs
- ☐ Trend Graph
- ☐ Standard Day Graph
- ☐ Standard Week Graph
- ☐ Target Graph
- ☐ Pump Use Graph
- ☐ Pump Summary Graph
- ☐ Basal Profile Graph
- ☐ Favorite Reports
- ☐ Fields
- ☐ Patient Fields
- ☐ Contact Information
- ☐ Patient Address
- ☐ Patient E-mail 1
- ☐ Patient E-mail 2
- ☐ Patient Daytime Phone
- ☐ Patient Evening Phone
- ☐ Patient Cell Phone
- ☐ Patient Home Phone
- ☐ Patient Fax
- ☐ Patient Other Phone
- ☐ Patient Insurance
- ☐ Insurance Provider 1
- ☐ Insurance Provider 1 Name
- ☐ Insurance Provider 1 Policy ID
- ☐ Insurance Provider 1 Policy Int
- ☐ Insurance Provider 1 Contact
- ☐ Insurance Provider 2
- ☐ Insurance Provider 2 Name

Report Type: Patient Report

Description: Dual Graph Report

Preview

Page 1 of 1

Basal Profile as of 30.10.2007 (13.11.2007-13.11.2007)

Profile A

Insulin (units/hour)

6.00

4.00

3.00

2.00

1.00

0.00

0:00 3:00 6:00 9:00 12:00 15:00 18:00 21:00 0:00

Unit: 15.9

Total: 15.9

Profile B as of 30.10.2007

Insulin (units/hour)

6.00

4.00

3.00

0.00

0:00 3:00 6:00 9:00 12:00 15:00 18:00 21:00 0:00

Sample

Basal Profile Graph Item

Range: Custom Range 12.11.2007 - 13.11.2007

Show Statistics Show Key

There are no settings for this graph.

OK CANCEL

ACCU-CHEK®360°
Create New Custom Report Template
Help

Report Name: * Basal Profile

Content Items

- ☐ Text
- ☐ Text Label
- ☐ Text Block
- ☐ Separator
- ☐ Graphs
 - ☐ Trend Graph
 - ☐ Standard Day Graph
 - ☐ Standard Week Graphs
 - ☐ Target Graph
 - ☐ Pump Use Graph
 - ☐ Pump Summary Graphs
 - ☐ Basal Profile Graph
- ☐ Favorite Reports
- ☐ Fields
 - ☐ Patient Fields
 - ☐ Patient Name
 - ☐ Contact Information
 - ☐ Patient Address
 - ☐ Patient E-mail 1
 - ☐ Patient E-mail 2
 - ☐ Patient Daytime Phone
 - ☐ Patient Evening Phone
 - ☐ Patient Cell Phone
 - ☐ Patient Home Phone
 - ☐ Patient Fax
 - ☐ Patient Other Phone
 - ☐ Patient Insurance
 - ☐ Insurance Provider 1
 - ☐ Insurance Provider 1 Name
 - ☐ Insurance Provider 1 Policy ID
 - ☐ Insurance Provider 1 Policy Int
 - ☐ Insurance Provider 1 Contact
 - ☐ Insurance Provider 2
 - ☐ Insurance Provider 2 Name

Description: Dual Graph Report

Report Type: Patient Report

Page 1 of 1

Basal Profile as of 30.10.2007 (13.11.2007-13.11.2007)

Profile A

Insulin (unit/hour)

5.00 4.00 3.00 2.00 1.00 0.00

0:00 3:00 6:00 9:00 12:00 15:00 18:00 21:00 0:00

Units: 16.9

Total: 16.9

Sample

Profile B as of 30.10.2007

Insulin (unit/hour)

5.00 4.00 3.00 2.00 1.00 0.00

0:00 3:00 6:00 9:00 12:00 15:00 18:00 21:00 0:00

Units: 16.6

Total: 16.6

Basal Profile Graph Item

Range: Custom Range 12.11.2007 - 13.11.2007

☐ Show Statistics ☐ Show Key

There are no settings for this graph.

OK

CANCEL

FIG. 21

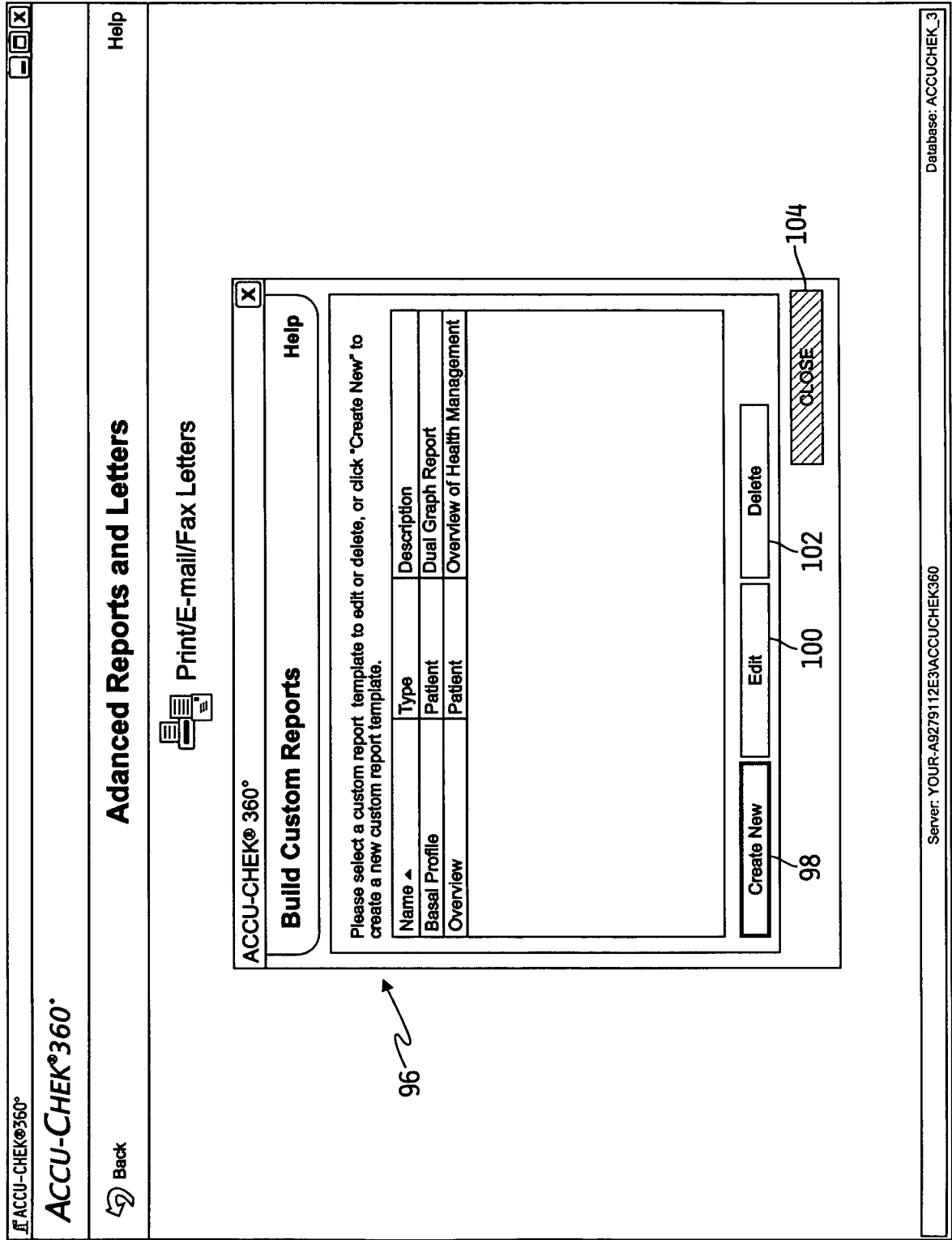


FIG. 22

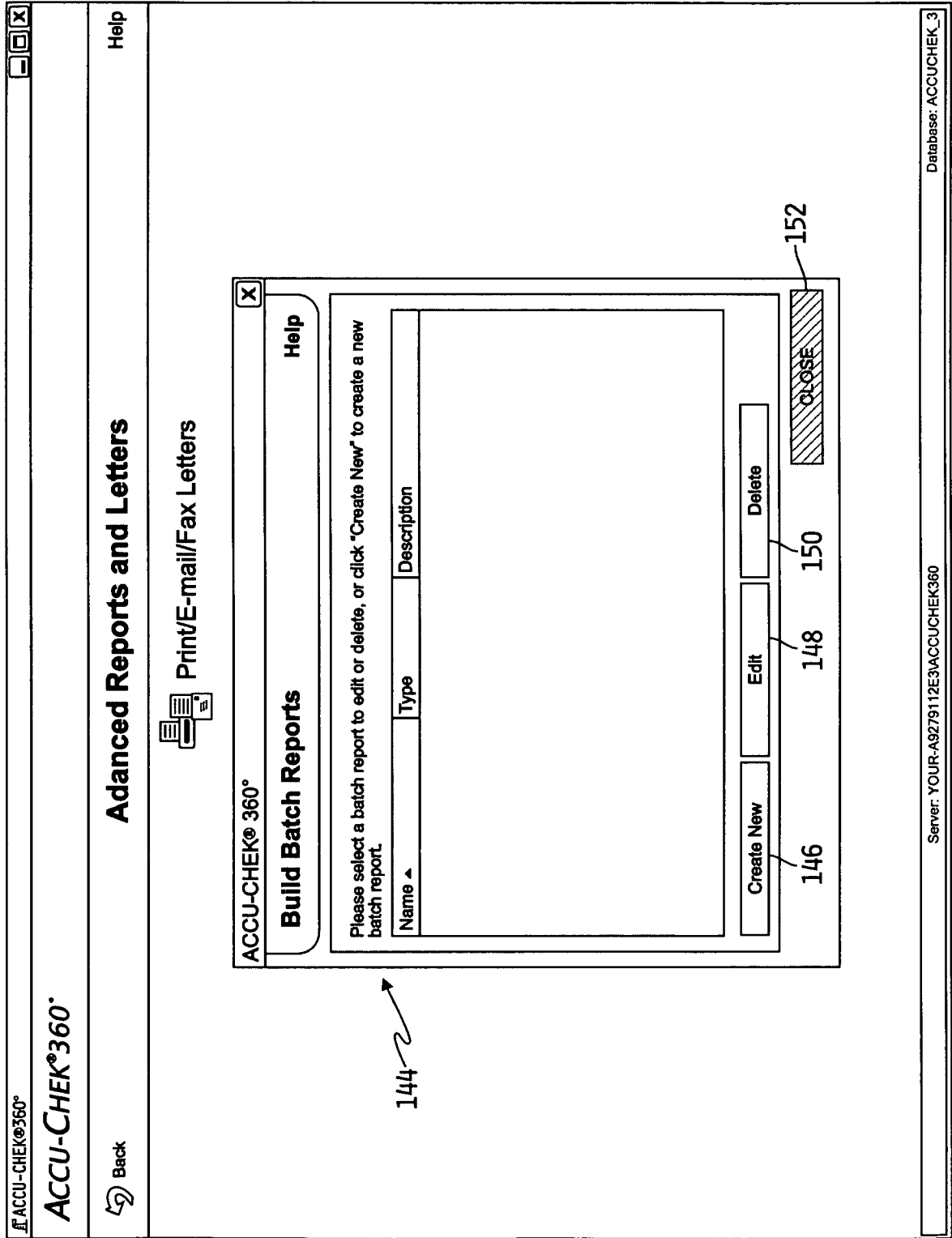


FIG. 23

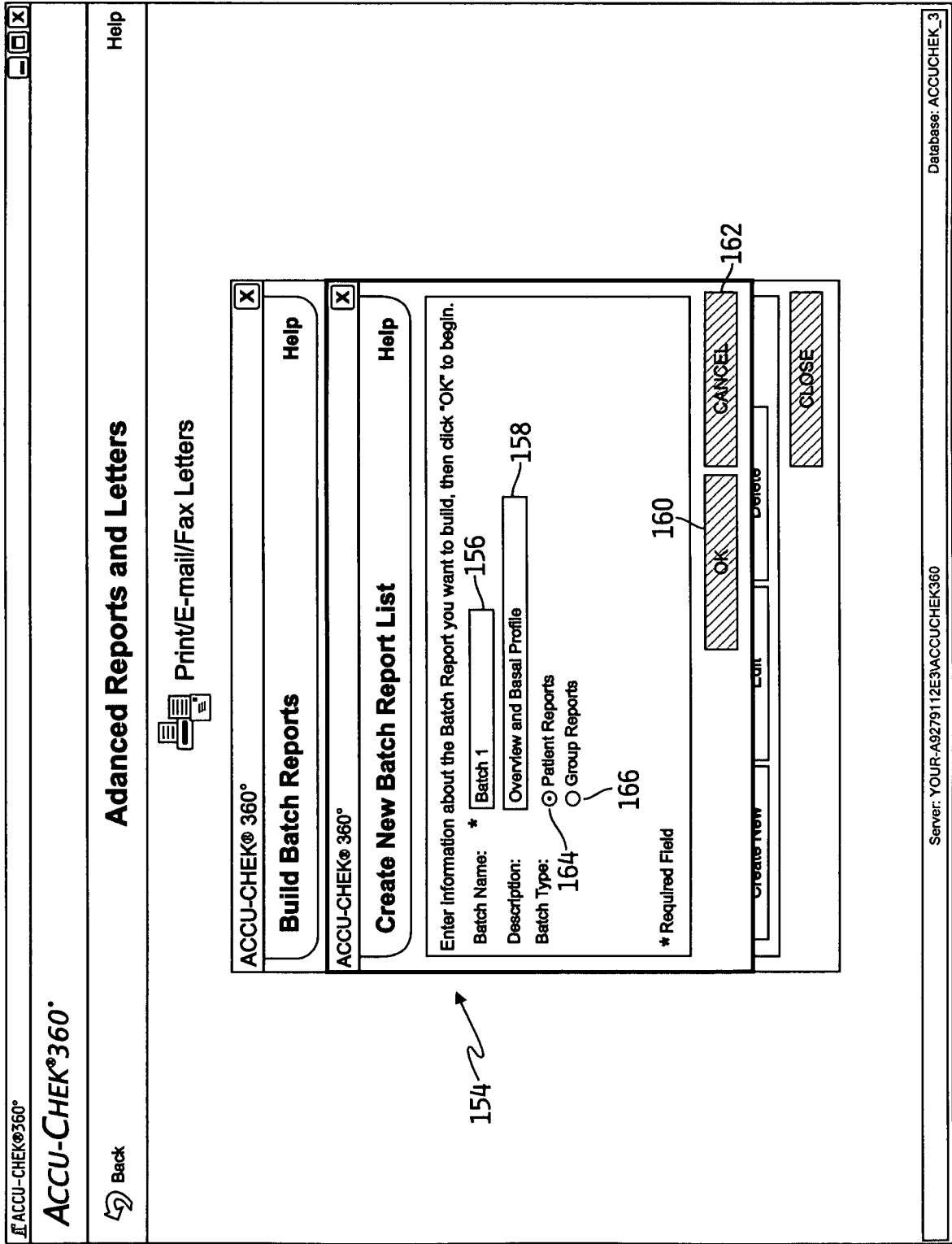


FIG. 24

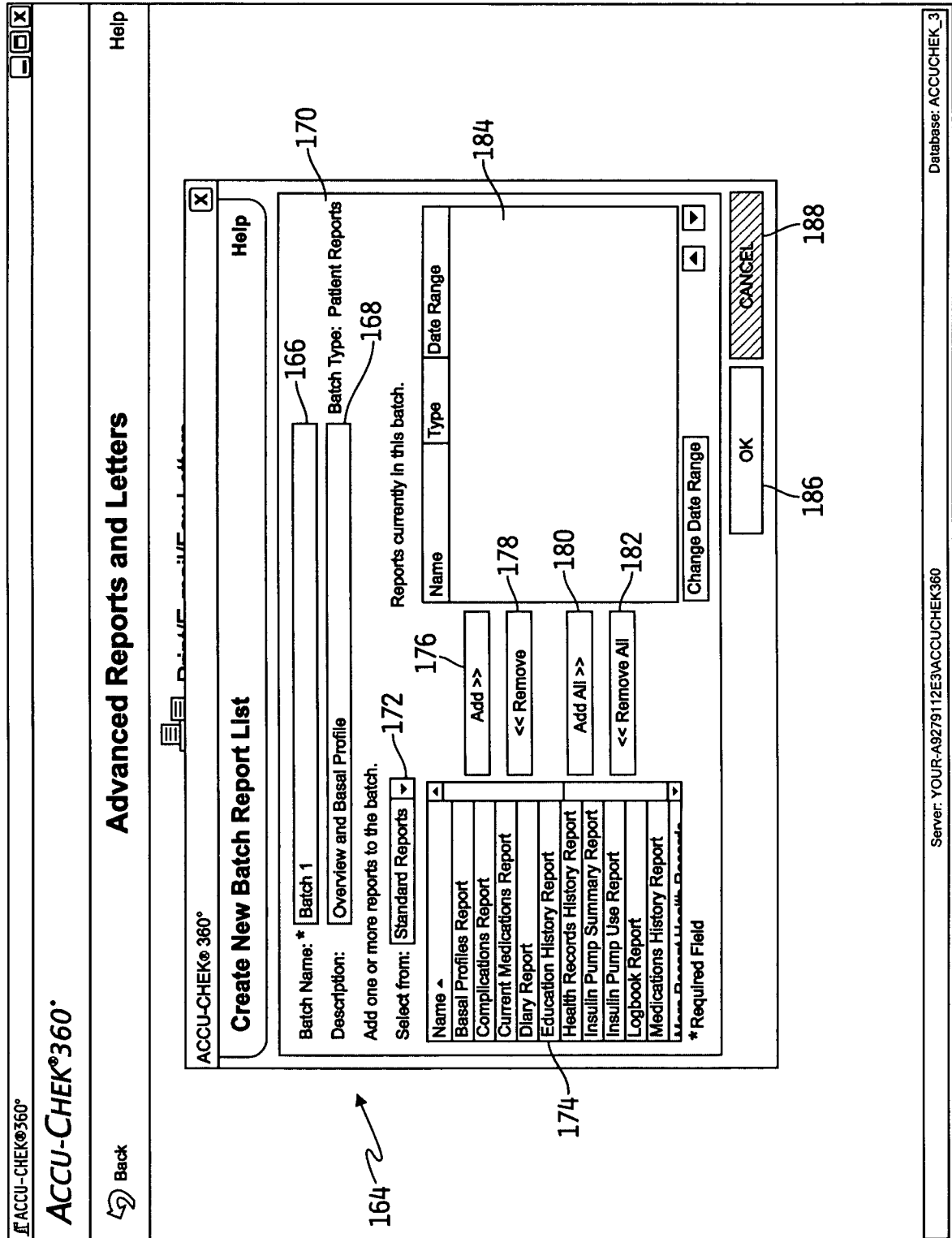


FIG. 25

ACCUCHEK®360°

ACCUCHEK®360°

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Advanced Reports and Letters

Help

ACCUCHEK® 360°

Create New Batch Report List

Help

Batch Name: * Batch 1

Description: Overview and Basal Profile

Batch Type: Patient Reports

Add one or more reports to the batch.

Select from:

Standard Reports

Standard Reports

Favorite Reports

Custom Reports

Basal Profile

Complications Report

Current Medications Report

Diary Report

Education History Report

Health Records History Report

Insulin Pump Summary Report

Insulin Pump Use Report

Logbook Report

Medications History Report

Medication History Report

Add >>

<< Remove

Add All >>

<< Remove All

Reports currently in this batch.

Name	Type	Date Range

Change Date Range

OK

CANCEL

Database: ACCUCHEK_3

Server: YOUR-A9279112E3\ACCUCHEK360

FIG. 26

ACCUCHEK®360°

ACCUCHEK®360°

Back

Advanced Reports and Letters

Help

ACCUCHEK® 360°

Create New Batch Report List

Help

Batch Name: *

Description:

Batch Type: Patient Reports

Add one or more reports to the batch.

Select from:

Reports currently in this batch.

Name	Type	Date Range
Basal Profile		
Dual Graph R		
Overview of h		

Add >>

<< Remove

Add All >>

<< Remove All

Change Date Range

OK

CANCEL

* Required Field

iii

Database: ACCUCHEK_3

Server: YOUR-A9279112E3ACCUCHEK360

FIG. 27

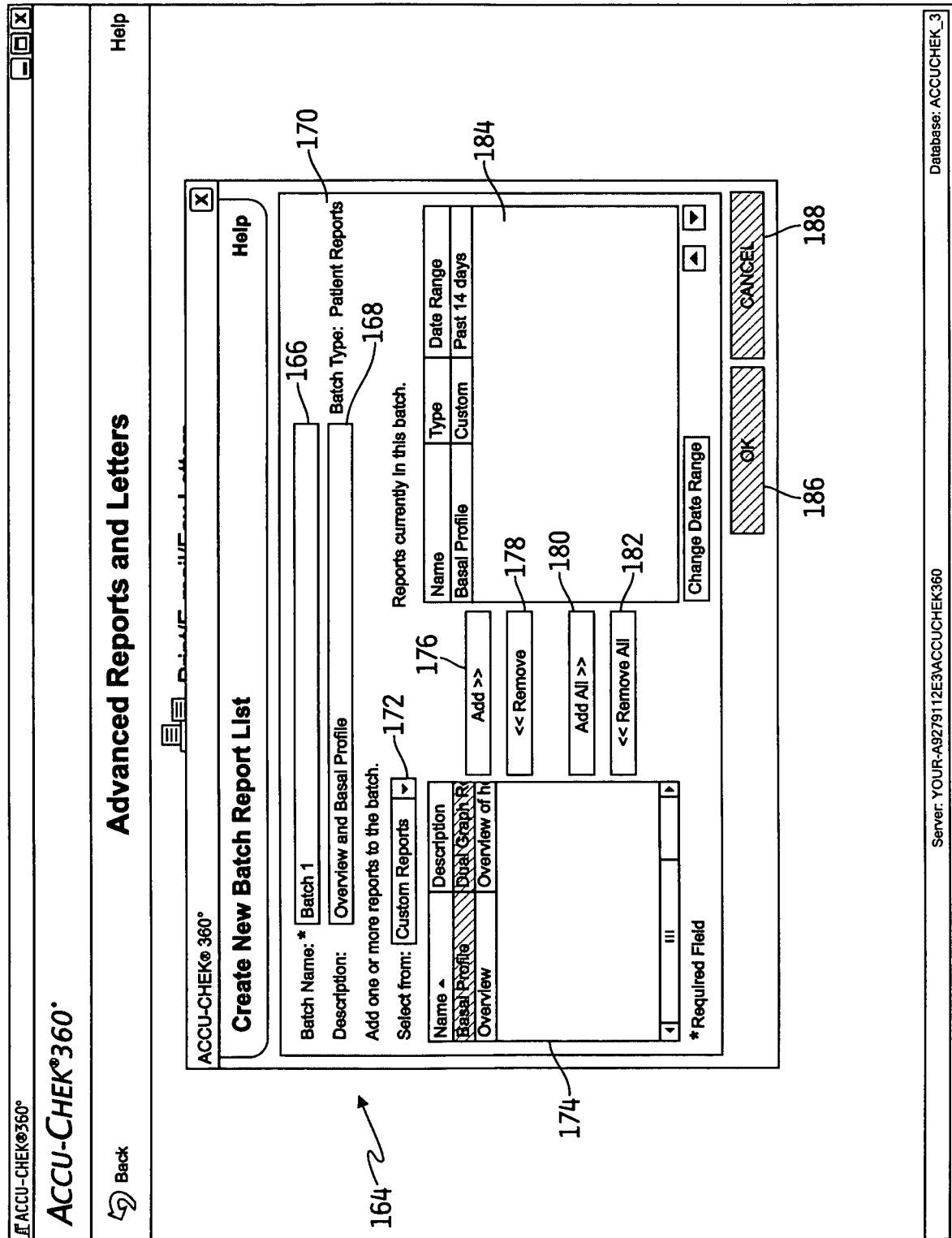


FIG. 28

Figure 1 is a screenshot of the "Create New Batch Report List" dialog box in the ACCU-CHEK 360 software. The dialog box has a title bar with "ACCU-CHEK 360" and a "Help" button. It contains several input fields: "Batch Name: *" with a dropdown set to "Batch 1" (166), "Description:" with a dropdown set to "Overview and Basal Profile" (168), and "Select from:" with a dropdown set to "Custom Reports" (172). Below these is a table (174) with columns "Name" and "Description". The table lists "Basal Profile", "Dual Graph R", and "Overview of R". To the right of the table are buttons: "Add >>" (176), "<< Remove" (178), "Add All >>" (180), and "<< Remove All" (182). Below these buttons is a "Change Date Range" section with a date range input field and "OK" (186) and "CANCEL" (188) buttons. A note at the bottom left says "* Required Field". A label "164" with an arrow points to the "Batch Name" field.

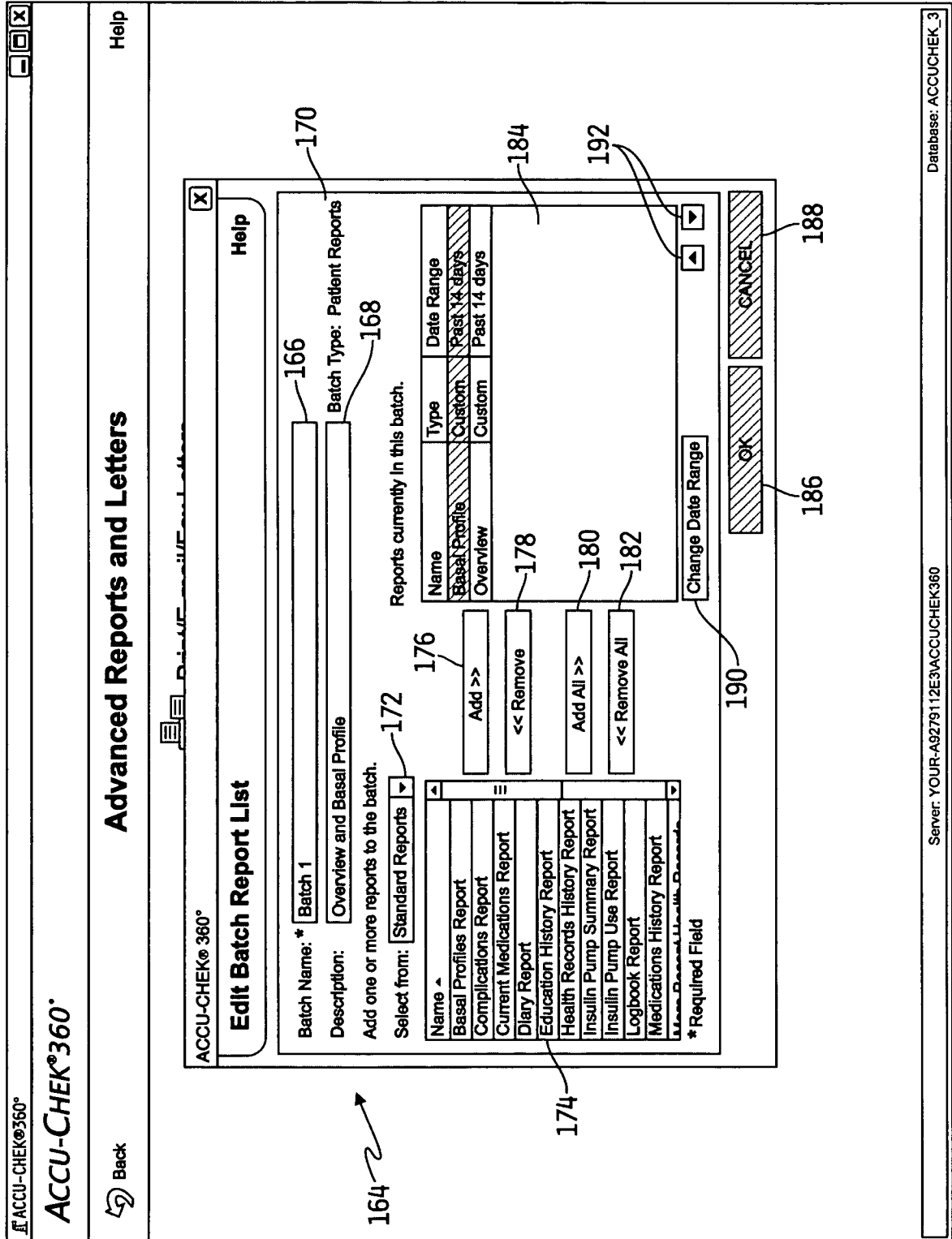


FIG. 30

ACCUCHEK®360°

ACCUCHEK®360°

Back

Advanced Reports and Letters

Help

ACCUCHEK® 360°

Edit Batch Report List

Help

Batch Name: * Batch 1

Description: Overview and Basal Profile

Batch Type: Patient Reports

Add one or more reports

Select from: Standard

Change Date Range 196

Range: Past 14 days
Past 2 days
Past 3 days
Past 7 days
Past 14 days
Past 30 days
Past 60 days
All data
Custom Range

07.11.2007-20.11.2007 198

OK 210

CANCEL 212

Change Date Range

Basal Profiles Report

Complications Report

Current Medication

Diary Report

Education History

Health Records History

Insulin Pump Summary

Insulin Pump Use Report

Logbook Report

Medications History Report

Medications History Report

* Required Field

OK

CANCEL

Database: ACCUCHEK_3

Server: YOUR-A9279112E3\ACCUCHEK360

FIG. 31

[illegible]

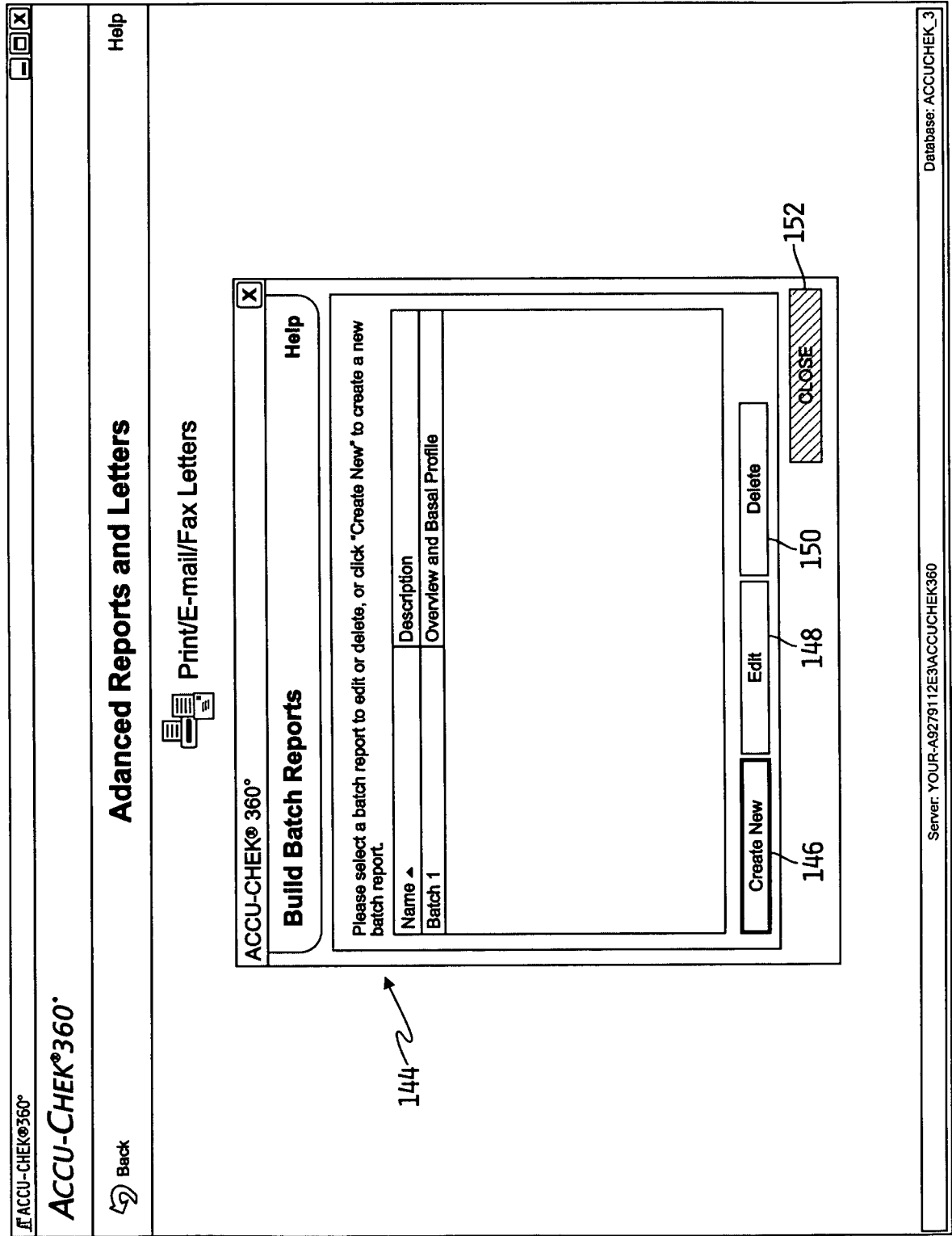


FIG. 33

ACCUCHEK®360°

ACCUCHEK®360°

Back

Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360°

Print/E-mail/Fax Letters - Select Patients

Help

Select the patients for which to print, e-mail and/or fax the reports/letters.
Add or remove one or more patient(s) or group(s) for this report/letter.

Select from: Patients 220

Name	Age	Date of Birth	ID
Aksu, Emel	28	10.1941	Turkish5
Anderson, Mitchell	28	10.1941	EnglishUS5
Aslan, Hakam	14	12.1983	Turkish1
Baker, Angela	28	05.1971	EnglishUK2
Bauer, Nicole	29	05.1971	German4
Berglund, Monica	01	11.1981	Swedish1
Blanchi, Andrea	14	12.1983	Italian1
Brambilla, Giorgio	17	01.1990	Italian4
Candes, Juan Antonio	01	11.1981	Spanish2
Colombo, Massimo	01	11.1981	Italian3
de Almeida Andrade, Fl	28	10.1941	Portuguesa
de Groot, Tom	17	01.1990	Dutch2
de Vries, Jan	29	05.1971	Dutch4

Report list:

Name	Date of Birth	ID
------	---------------	----

Add >> 224

<< Remove 226

Add All >> 228

<< Remove All 230

<BACK 234

NEXT> 236

CANCEL 238

Click "Next" to continue.

FIG. 34

ACCUCHEK®360°

ACCUCHEK®360°

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Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360°

Print/E-mail/Fax Letters - Select Patients

Help

Select the patients for which to print, e-mail and/or fax the reports/letters.
Add or remove one or more patient(s) or group(s) for this report/letter.

Select from: Patients

Name	Date of Birth	ID
Aksu, Emel	28.10.1941	Turkish5
Anderson, Mitchell	28.10.1941	EnglishUS5
Asian, Hakam	14.12.1983	Turkish1
Baker, Angela	28.05.1971	EnglishUK2
Bauer, Nicole	28.05.1971	German4
Berglund, Monica	01.11.1961	Swedish1
Bianchi, Andrea	14.12.1983	Italian1
Brambilla, Giorgio	17.01.1990	Italian4
Candee, Juan Antonio	01.11.1981	Spanish2
Colombo, Massimo	01.11.1961	Italian3
de Almeida Andrade, Fl	28.10.1941	Portuguese
de Groot, Tom	17.01.1990	Dutch2
de Vries, Jan	28.05.1971	Dutch4

218

220

Add >>

<< Remove

Add All >>

<< Remove All

224

226

228

230

Report list:

Name	Date of Birth	ID
Aksu, Emel	28.10.1941	Turkish5
Baker, Angela	28.05.1971	EnglishUK2

232

<BACK

NEXT>

CANCEL

234

236

238

Click "Next" to continue.

Database: ACCUCHEK_3

FIG. 35

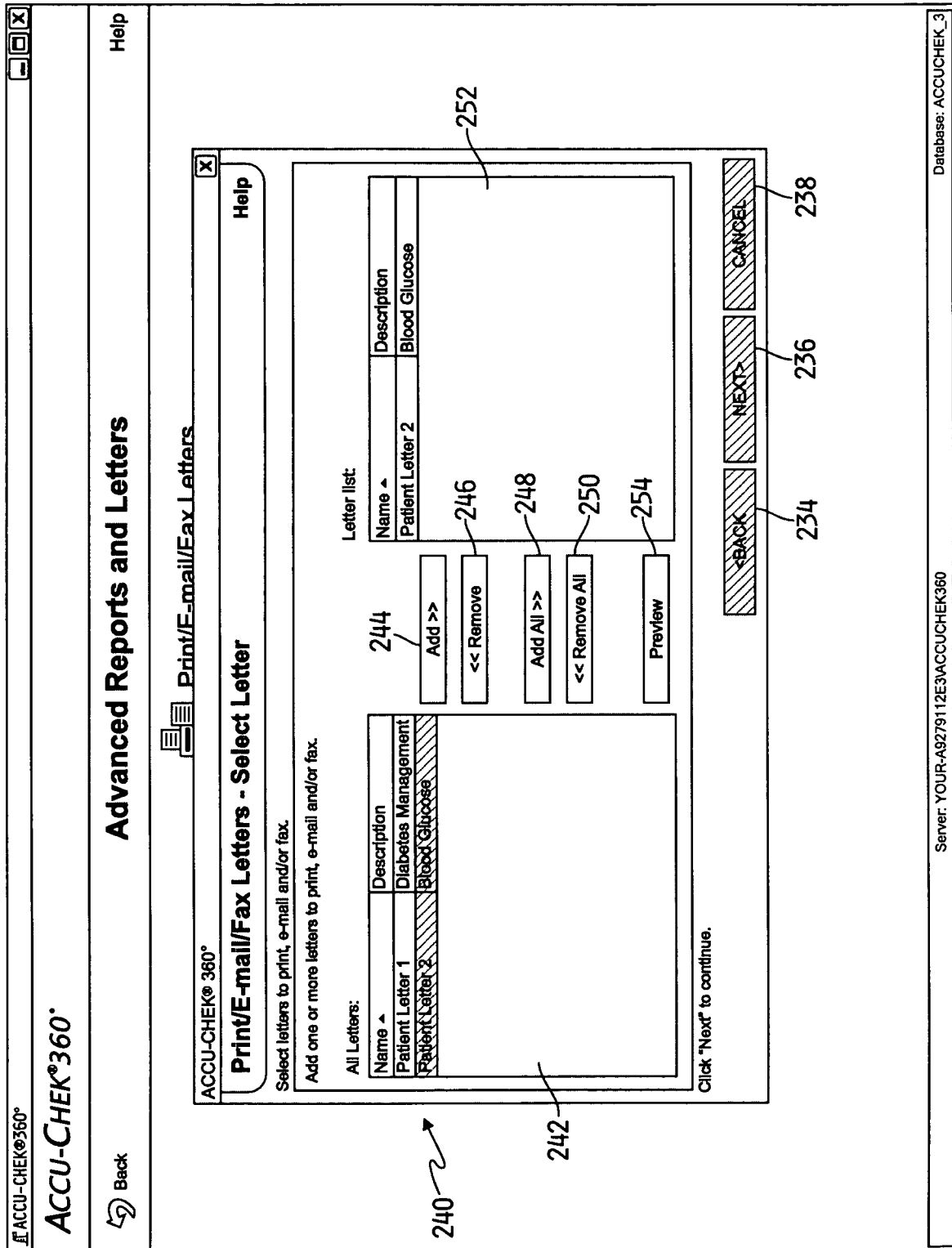


FIG. 36

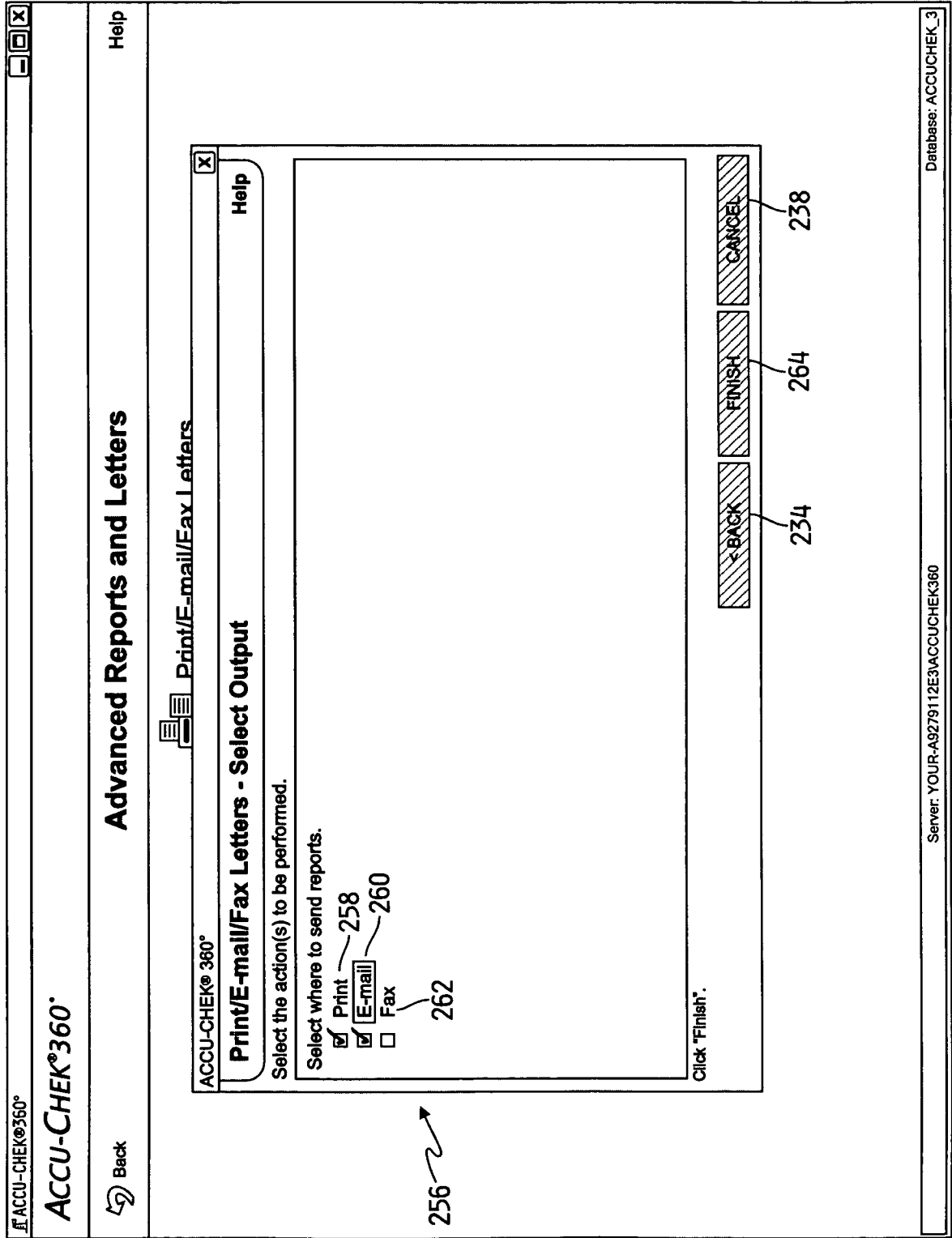


FIG. 37

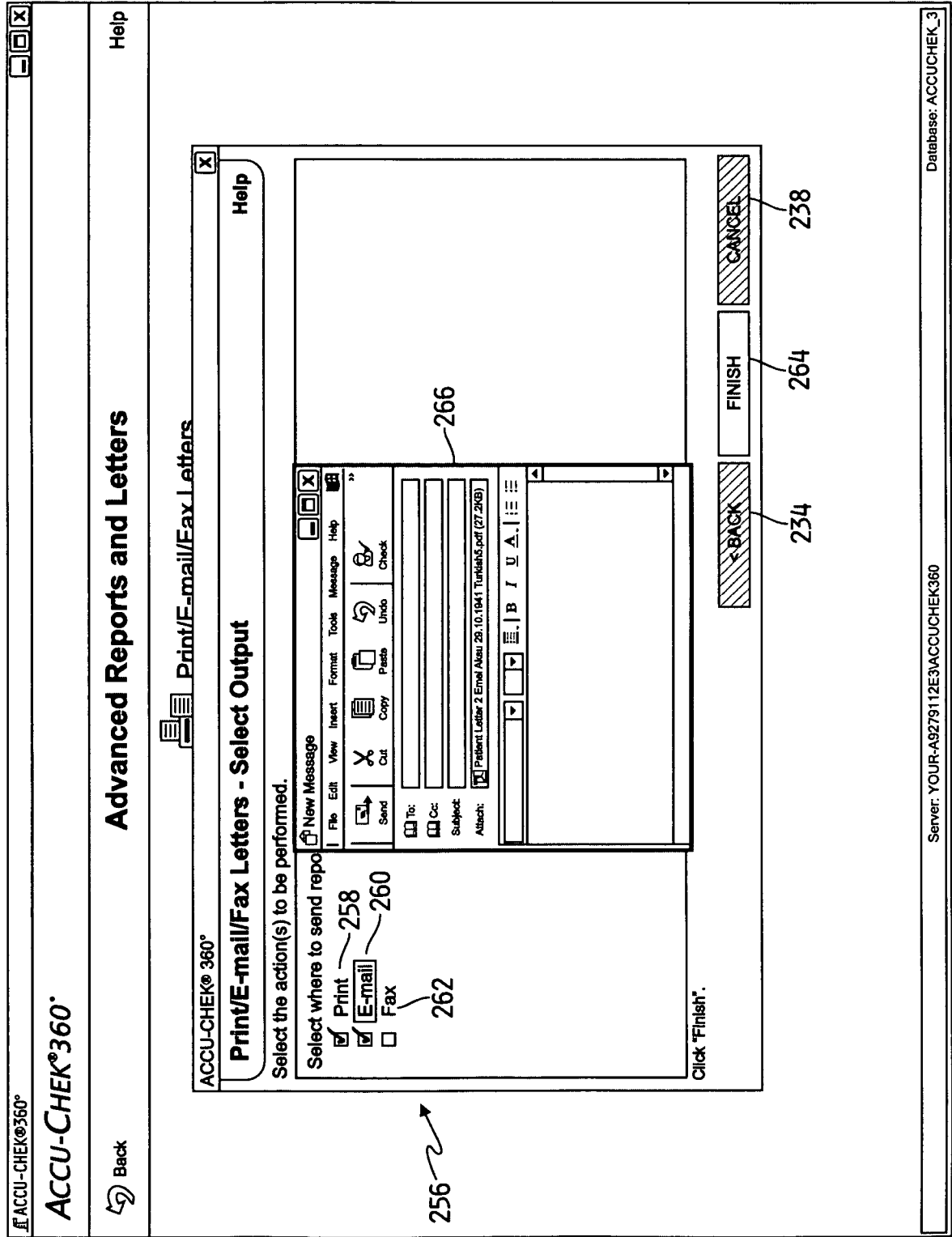


FIG. 38

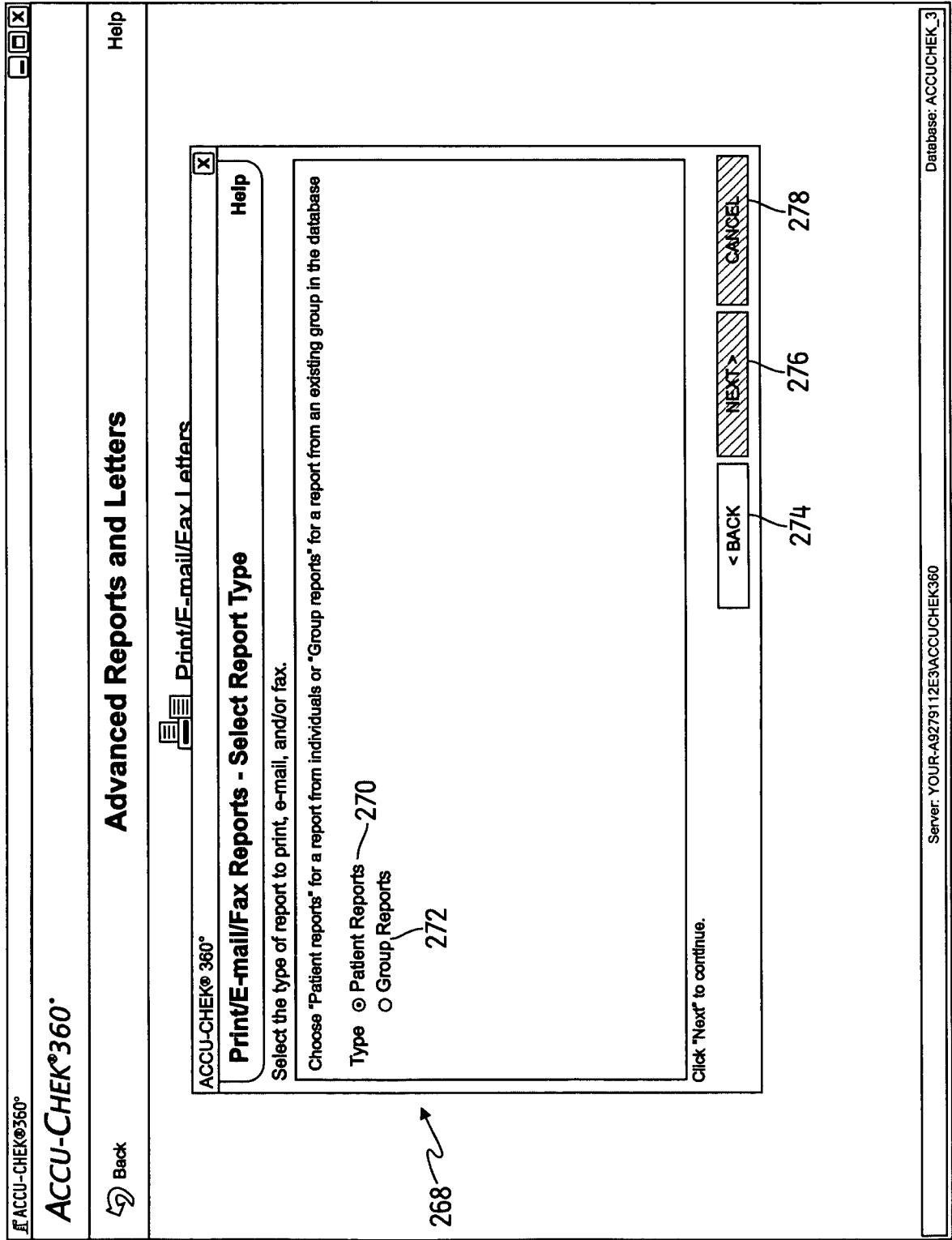


FIG. 39

ACCUCHEK®360®

ACCUCHEK®360®

Back

Advanced Reports and Letters

Help

Print/E-mail/Fax Letters

ACCUCHEK® 360®

Print/E-mail/Fax Letters - Select Patients

Help

Select the patients for which to print, e-mail and/or fax the reports/letters.
Add or remove one or more patient(s) or group(s) for this report/letter.

Select from: Patients

Name	Date of Birth	ID
Aksu, Enel	28.10.1941	Turkish5
Anderson, Mitchell	28.10.1941	EnglishUS5
Asian, Hakam	14.12.1983	Turkish1
Baker, Angela	28.05.1971	EnglishUK2
Bauer, Nicole	29.05.1971	German4
Berglund, Monica	01.11.1961	Swedish1
Bianchi, Andrea	14.12.1983	Italian1
Brambilla, Giorgio	17.01.1990	Italian4
Candes, Juan Antonio	01.11.1981	Spanish2
Colombo, Massimo	01.11.1961	Italian3
de Almeida Andrade, Fl	28.10.1941	Portuguese
de Groot, Tom	17.01.1990	Dutch2
de Vries, Jan	29.05.1971	Dutch4

Report list:

Name	Date of Birth	ID
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Add >>

<< Remove

Add All >>

<< Remove All

<BACK

NEXT>

CANCEL

Click "Next" to continue.

FIG. 40

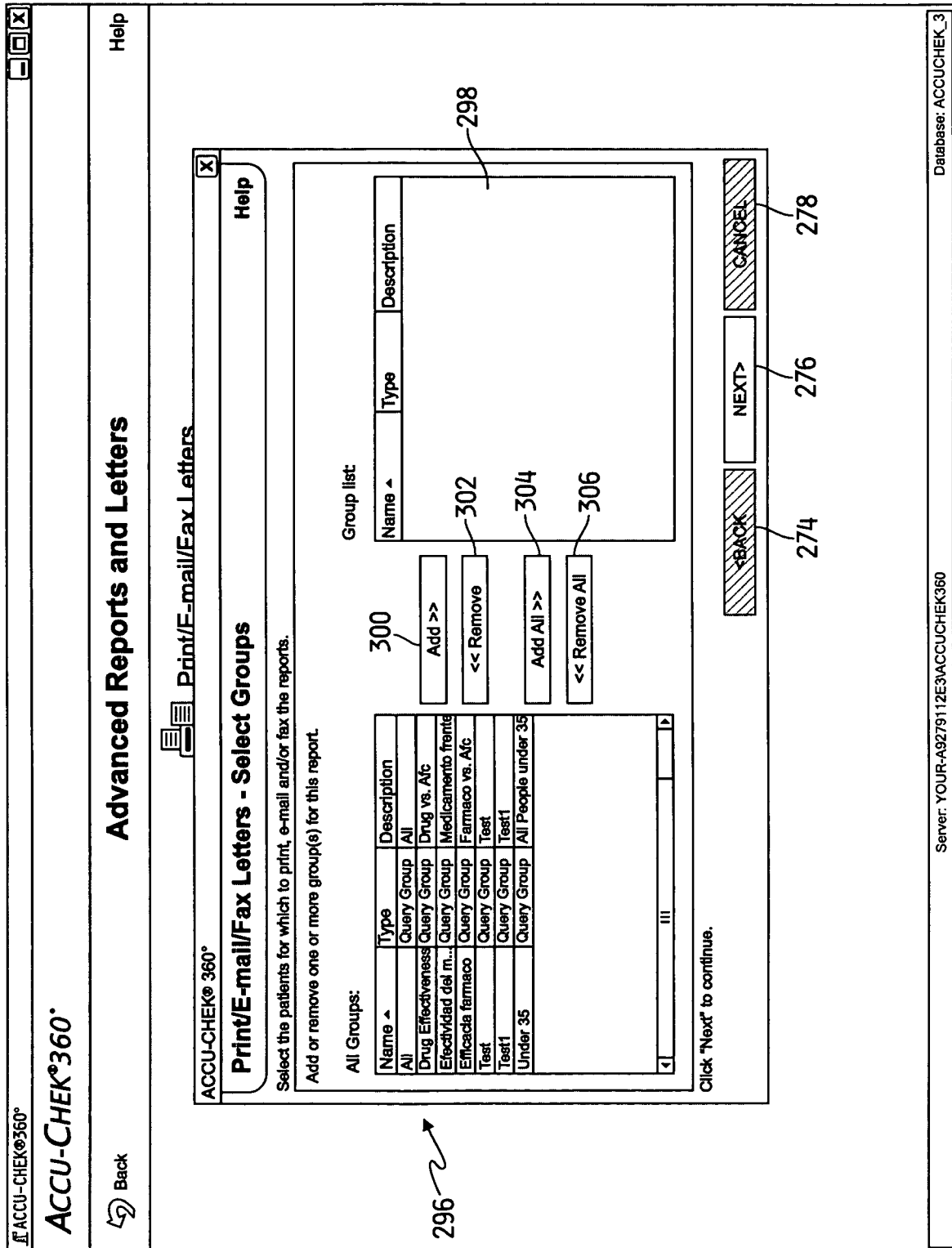


FIG. 41

Figure 1 is a screenshot of the ACCU-CHEK 360 software interface, specifically the 'Print/E-mail/Fax Letters - Select Report' dialog box. The dialog box has a title bar with 'ACCU-CHEK 360' and a 'Help' button. Below the title bar is a menu bar with 'Print/E-mail/Fax Letters'. The main area contains a 'Select from:' section with a list of report types: Standard Reports, Favorite Reports, Custom Reports, and Batch Reports. A 'Select from:' dropdown menu is open, showing 'Standard Reports' selected. Below this is a table with columns 'Name' and 'Type'. The table lists various reports: Basal Profiles, Complications, Current Medication, Diary Report, Education History Report, Health Records History Re., Insulin Pump Summary Re., Insulin Pump Use Report, Logbook Report, Medications History Report, Most Recent Health Record, Patient Information Report, and Record List Report. To the right of the table is a 'Report list:' section with a table that has columns 'Name' and 'Type'. This section contains a list of reports: 'Add >>' (314), '<< Remove' (316), 'Add All >>' (318), '<< Remove All' (320), and 'Preview' (324). At the bottom of the dialog box are three buttons: '< BACK' (274), 'NEXT >' (276), and 'CANCEL' (278). A note at the bottom says 'Click "Next" to continue.'

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

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

Applicant's or agent's file reference R60148PCT	IMPORTANT DECLARATION	Date of mailing(day/month/year) 26/03/2009
International application No. PCT/EP2008/009864	International filing date(day/month/year) 21/11/2008	(Earliest) Priority date(day/month/year) 07/12/2007
International Patent Classification (IPC) or both national classification and IPC G06F19/00		
Applicant ROCHE DIAGNOSTICS GMBH		

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

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

☒ the description
☒ the claims
☐ the drawings
3. ☐ A meaningful search could not be carried out without the sequence listing; the applicant did not, within the prescribed time limit:

☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b).
4. ☐ A meaningful search could not be carried out without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
5. Further comments: see further information sheet

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

A meaningful search is not possible (Article 17(2) PCT and PCT Guidelines 9) on the basis of all claims and the description because of the following reasons:

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty, since many word processing programs or spreadsheet programs provided the functionality of the subject-matter of the claims. There are so many pertinent documents that it is impossible to determine which parts of the claims and the application may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT).

There being no reasonable basis in the application that clearly indicates the subject-matter which might be expected to form the subject of the claims later in the procedure, no search at all was deemed possible.

Furthermore, all claims, and the whole application, relate to outputting a report in multiple formats to recipients, which is an administrative business method for which no search is required under Rule 39.1(iii) PCT. The application and the claims further define conventional, notorious computing means in order to carry out said administrative business method. Said computing means are part of common general knowledge, and the application does not disclose any technical problem or technical considerations associated with the choice and configuration of said generally known generic computing means. The existence of these generic technical means and their use as a platform for automating administrative business methods was so well-known at the date of filing as not to require documentary evidence.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2)PCT declaration be overcome.