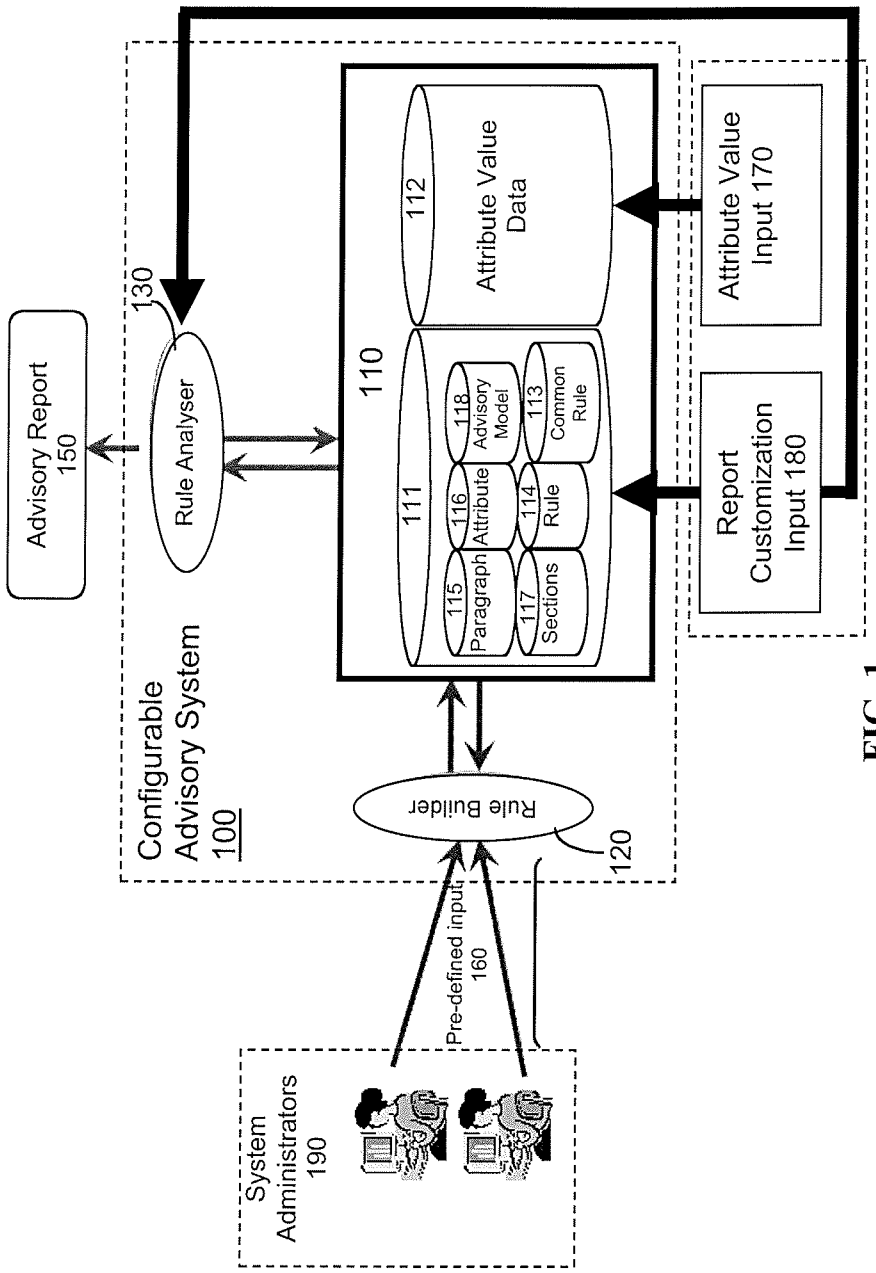

Advisory Report
150
130
Rule Analyser
Configurable
Advisory System
100
110
111
112
Attribute Value
Data
115
Paragraph
116
Attribute
117
Sections
114
Rule
118
Advisory
Model
113
Common
Rule
Attribute Value
Input 170
Report
Customization
Input 180
Rule Builder
120
Pre-defined input
160
System
Administrators
190

FIG. 1

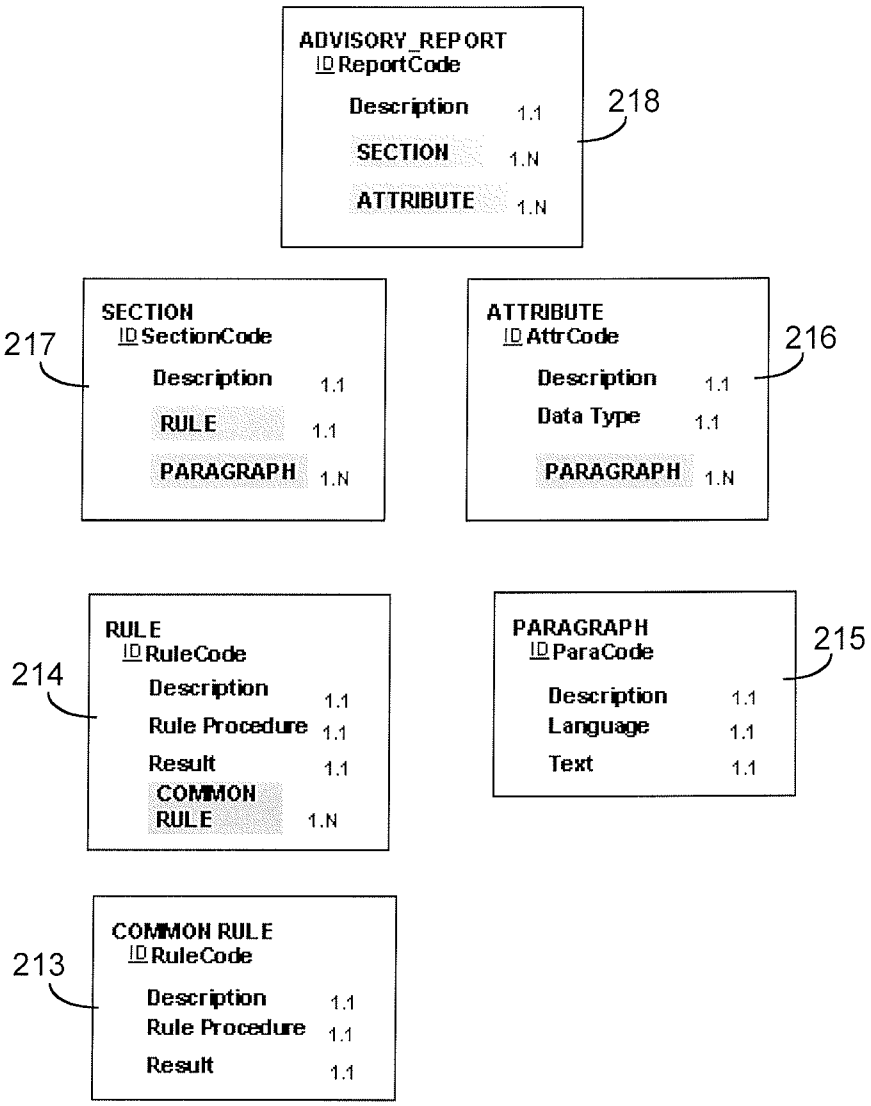

ADVISORY_REPORT
ID ReportCode
Description 1.1
SECTION 1.N
ATTRIBUTE 1.N
218
SECTION
ID SectionCode
Description 1.1
RULE 1.1
PARAGRAPH 1.N
217
ATTRIBUTE
ID AttrCode
Description 1.1
Data Type 1.1
PARAGRAPH 1.N
216
RULE
ID RuleCode
Description 1.1
Rule Procedure 1.1
Result 1.1
COMMON RULE 1.N
214
PARAGRAPH
ID ParaCode
Description 1.1
Language 1.1
Text 1.1
215
COMMON RULE
ID RuleCode
Description 1.1
Rule Procedure 1.1
Result 1.1
213

FIG. 2

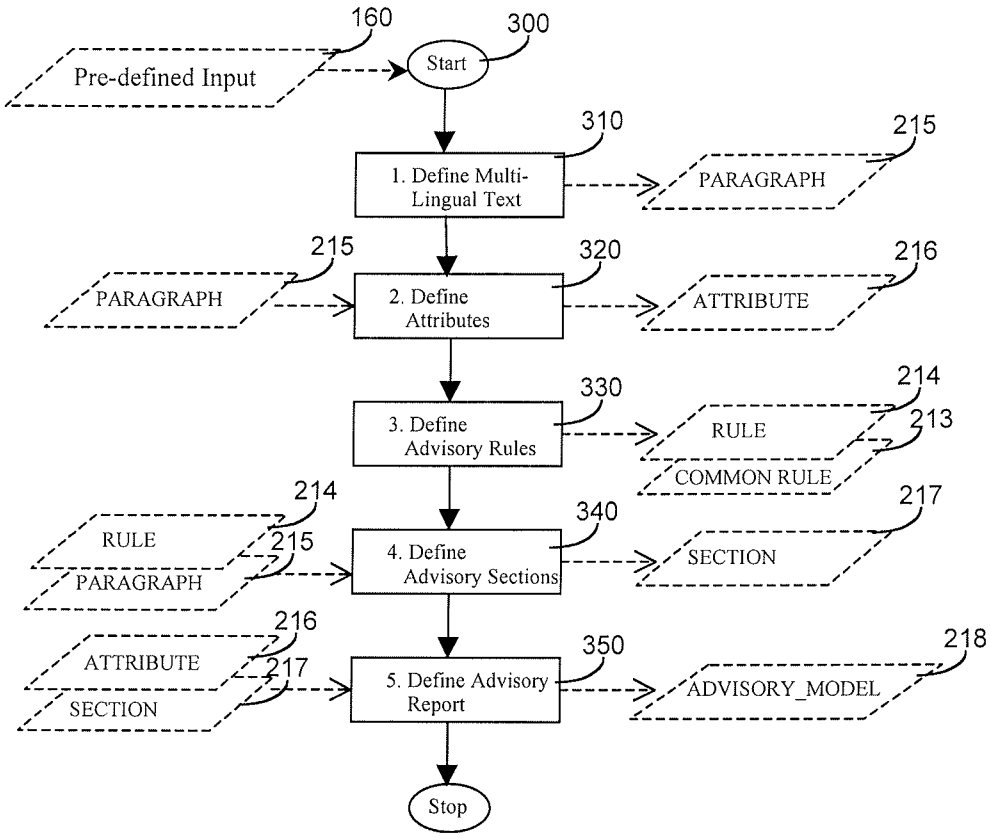

160
300
Pre-defined Input
Start
310
215
1. Define Multi-Lingual Text
PARAGRAPH
215
320
216
PARAGRAPH
2. Define Attributes
ATTRIBUTE
330
214
213
3. Define Advisory Rules
RULE
COMMON RULE
214
340
217
RULE
215
4. Define Advisory Sections
SECTION
PARAGRAPH
216
350
218
ATTRIBUTE
217
5. Define Advisory Report
ADVISORY_MODEL
SECTION
Stop

FIG. 3

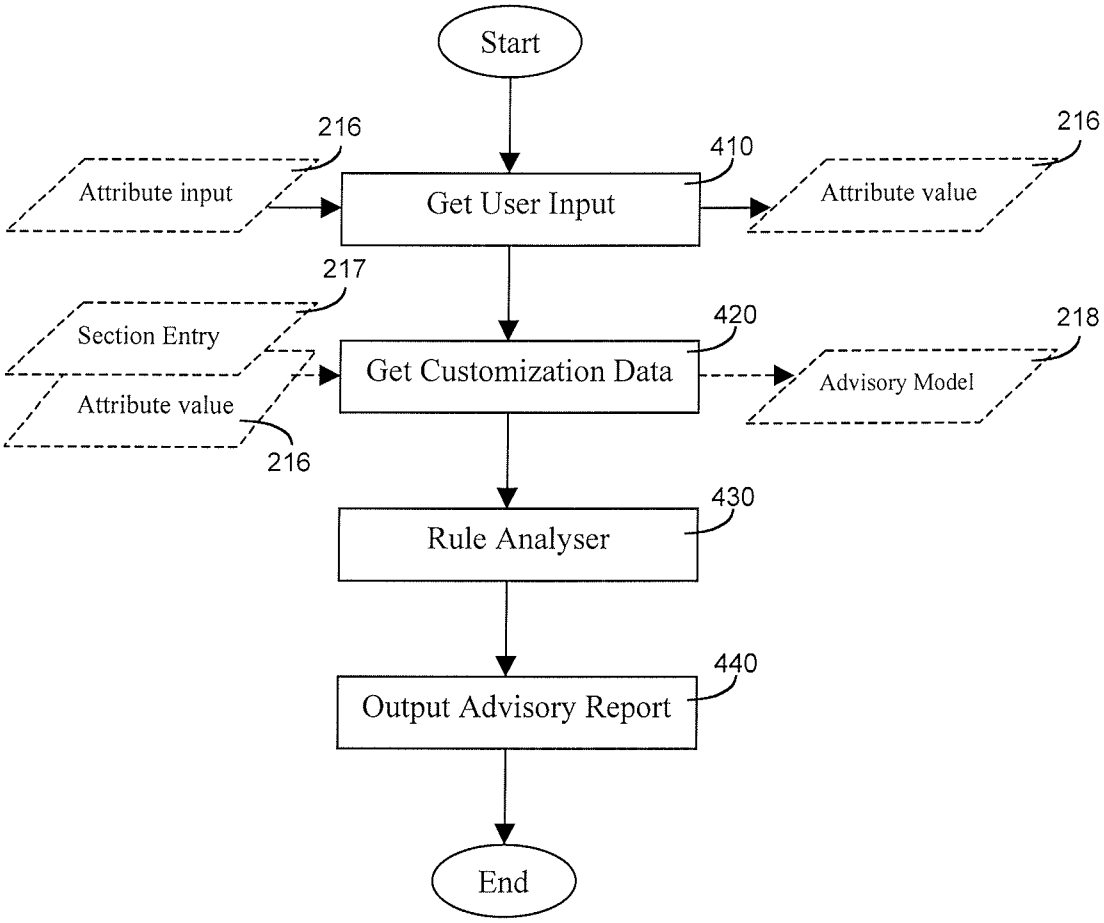

Start
216
Attribute input
410
Get User Input
216
Attribute value
217
Section Entry
Attribute value
216
420
Get Customization Data
218
Advisory Model
430
Rule Analyser
440
Output Advisory Report
End

FIG. 4

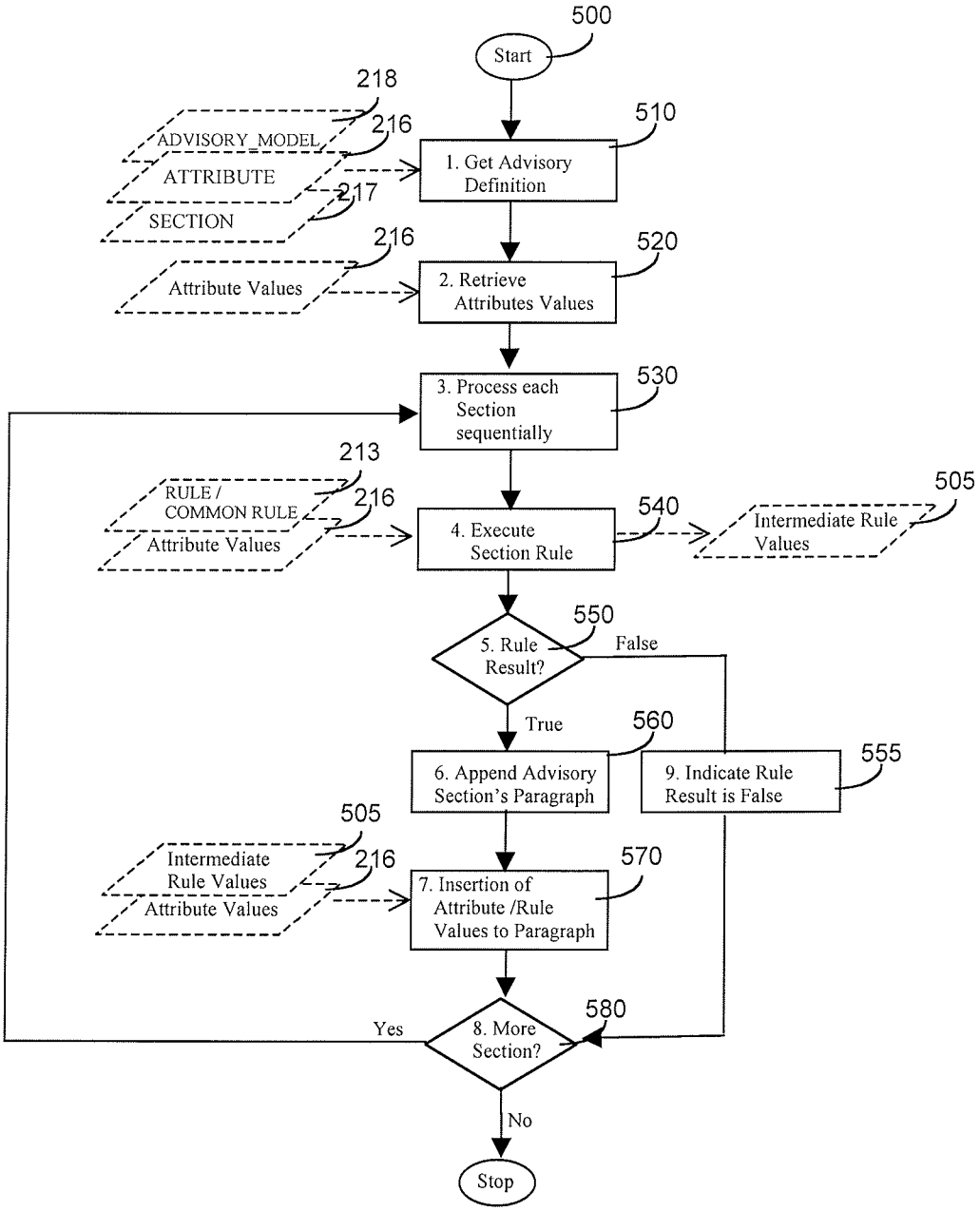

500
Start
218
216
ADVISORY_MODEL
ATTRIBUTE
217
SECTION
510
1. Get Advisory Definition
216
Attribute Values
520
2. Retrieve Attributes Values
530
3. Process each Section sequentially
213
216
RULE / COMMON RULE
Attribute Values
540
4. Execute Section Rule
505
Intermediate Rule Values
550
5. Rule Result?
False
True
560
6. Append Advisory Section's Paragraph
555
9. Indicate Rule Result is False
505
216
Intermediate Rule Values
Attribute Values
570
7. Insertion of Attribute /Rule Values to Paragraph
580
8. More Section?
Yes
No
Stop

FIG. 5

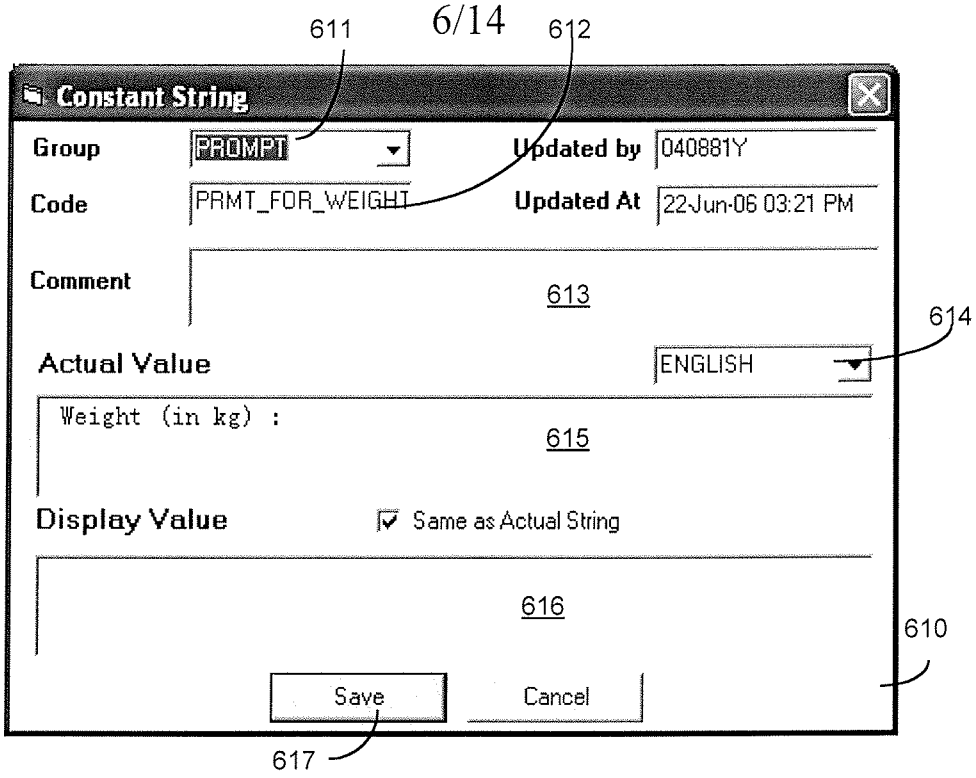

611
612
Constant String
Group
PROMPT
Updated by
040881Y
Code
PRMT_FOR_WEIGHT
Updated At
22-Jun-06 03:21 PM
Comment
613
614
Actual Value
ENGLISH
Weight (in kg) :
615
Display Value
Same as Actual String
616
610
Save
Cancel
617

FIG. 6a

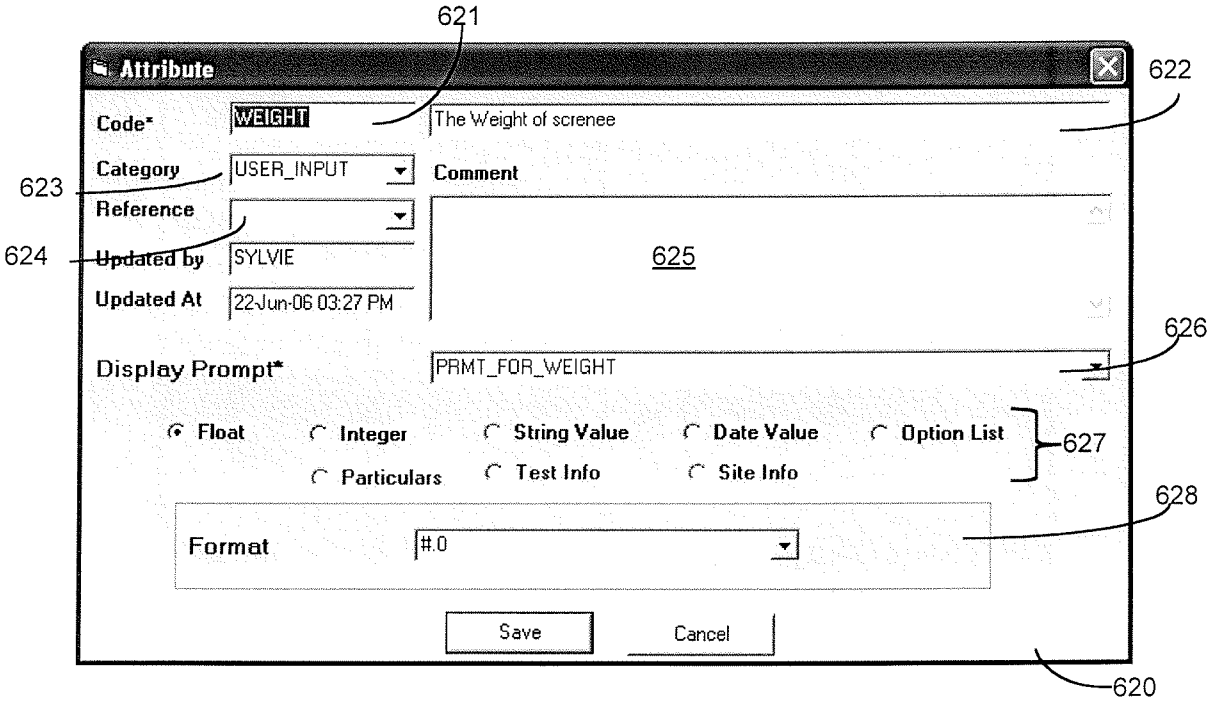

621
Attribute
622
Code*
WEIGHT
The Weight of screnee
Category
USER_INPUT
Comment
623
Reference
624
Updated by
SYLVIE
625
Updated At
22-Jun-06 03:27 PM
626
Display Prompt*
PRMT_FOR_WEIGHT
Float
Integer
String Value
Date Value
Option List
627
Particulars
Test Info
Site Info
628
Format
#.0
Save
Cancel
620

FIG. 6b

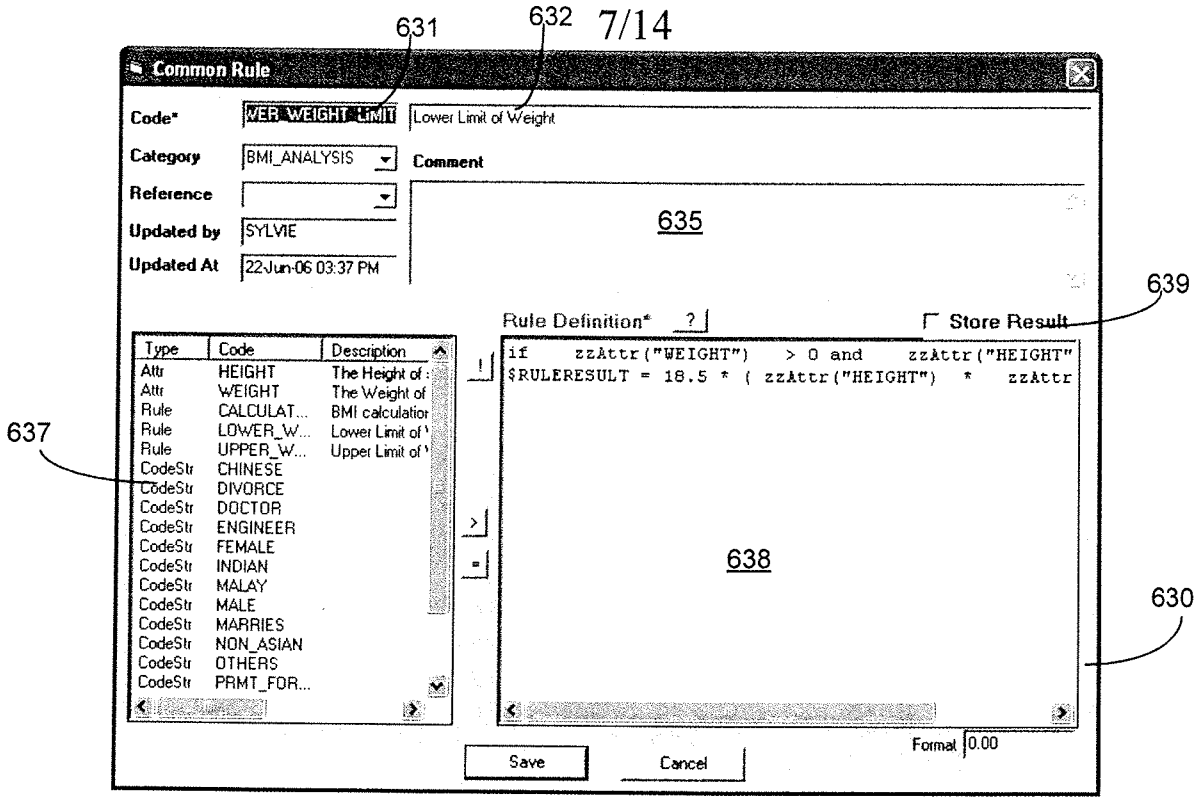

631
632
Common Rule
Code*
WEB_WEIGHT_LIMIT
Lower Limit of Weight
Category
BMI_ANALYSIS
Comment
Reference
Updated by
SYLVIE
Updated At
22-Jun-06 03:37 PM
635
639
Rule Definition*
?
Store Result
637
Type
Code
Description
Attr HEIGHT The Height of
Attr WEIGHT The Weight of
Rule CALCULAT... BMI calculatior
Rule LOWER_W... Lower Limit of
Rule UPPER_W... Upper Limit of
CodeStr CHINESE
CodeStr DIVORCE
CodeStr DOCTOR
CodeStr ENGINEER
CodeStr FEMALE
CodeStr INDIAN
CodeStr MALAY
CodeStr MALE
CodeStr MARRIES
CodeStr NON_ASIAN
CodeStr OTHERS
CodeStr PRMT_FOR...
if zzAttr("WEIGHT") > 0 and zzAttr("HEIGHT"
$RULERESULT = 18.5 * (zzAttr("HEIGHT") * zzAttr
638
630
Format
0.00
Save
Cancel

FIG. 6c

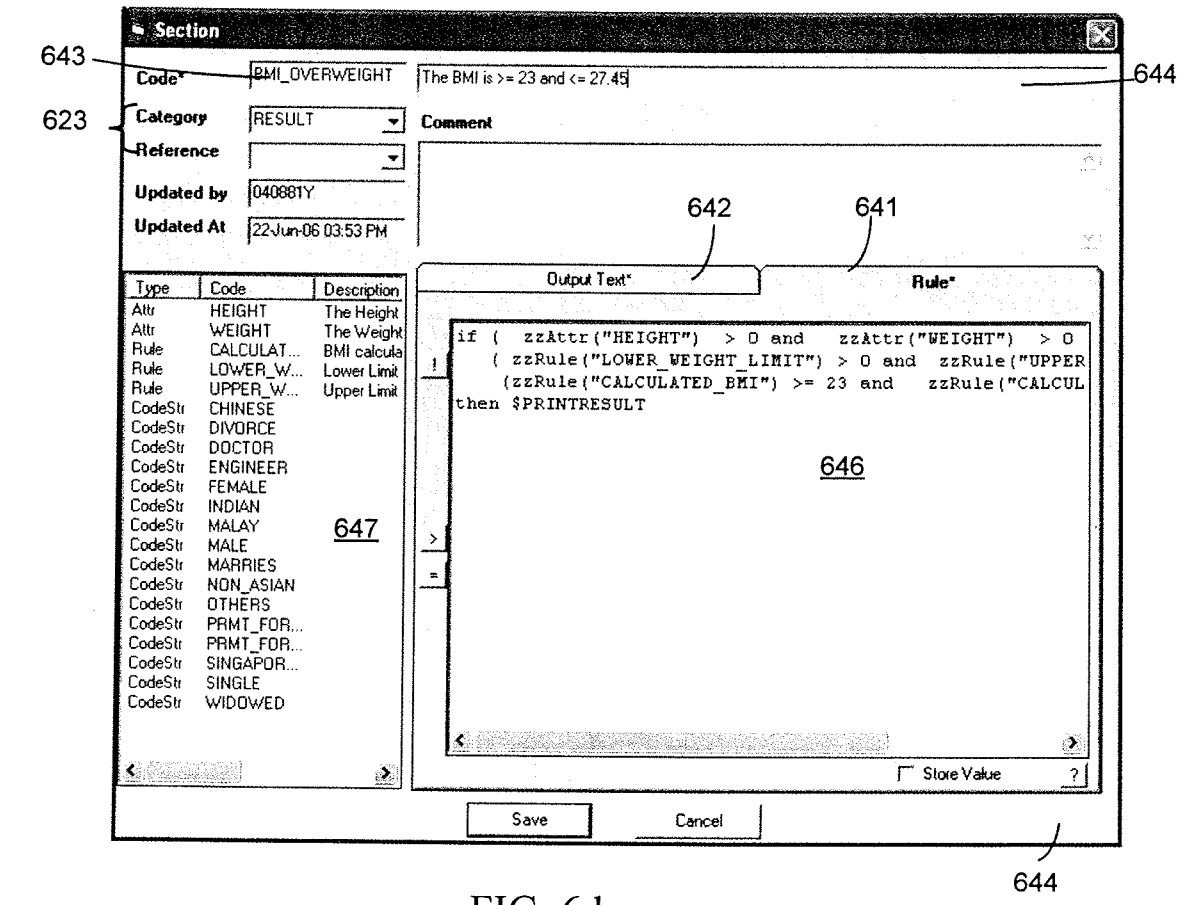

Section
643
Code*
BMI_OVERWEIGHT
The BMI is >= 23 and <= 27.45
644
623
Category
RESULT
Comment
Reference
Updated by
040881Y
Updated At
22-Jun-06 03:53 PM
642
641
Output Text*
Rule*
Type
Code
Description
Attr HEIGHT The Height
Attr WEIGHT The Weight
Rule CALCULAT... BMI calcula
Rule LOWER_W... Lower Limit
Rule UPPER_W... Upper Limit
CodeStr CHINESE
CodeStr DIVORCE
CodeStr DOCTOR
CodeStr ENGINEER
CodeStr FEMALE
CodeStr INDIAN
CodeStr MALAY
CodeStr MALE
CodeStr MARRIES
CodeStr NON_ASIAN
CodeStr OTHERS
CodeStr PRMT_FOR...
CodeStr PRMT_FOR...
CodeStr SINGAPOR...
CodeStr SINGLE
CodeStr WIDOWED
647
if (zzAttr("HEIGHT") > 0 and zzAttr("WEIGHT") > 0
(zzRule("LOWER_WEIGHT_LIMIT") > 0 and zzRule("UPPER
(zzRule("CALCULATED_BMI") >= 23 and zzRule("CALCUL
then $PRINTRESULT
646
Store Value
?
Save
Cancel
644

FIG. 6d

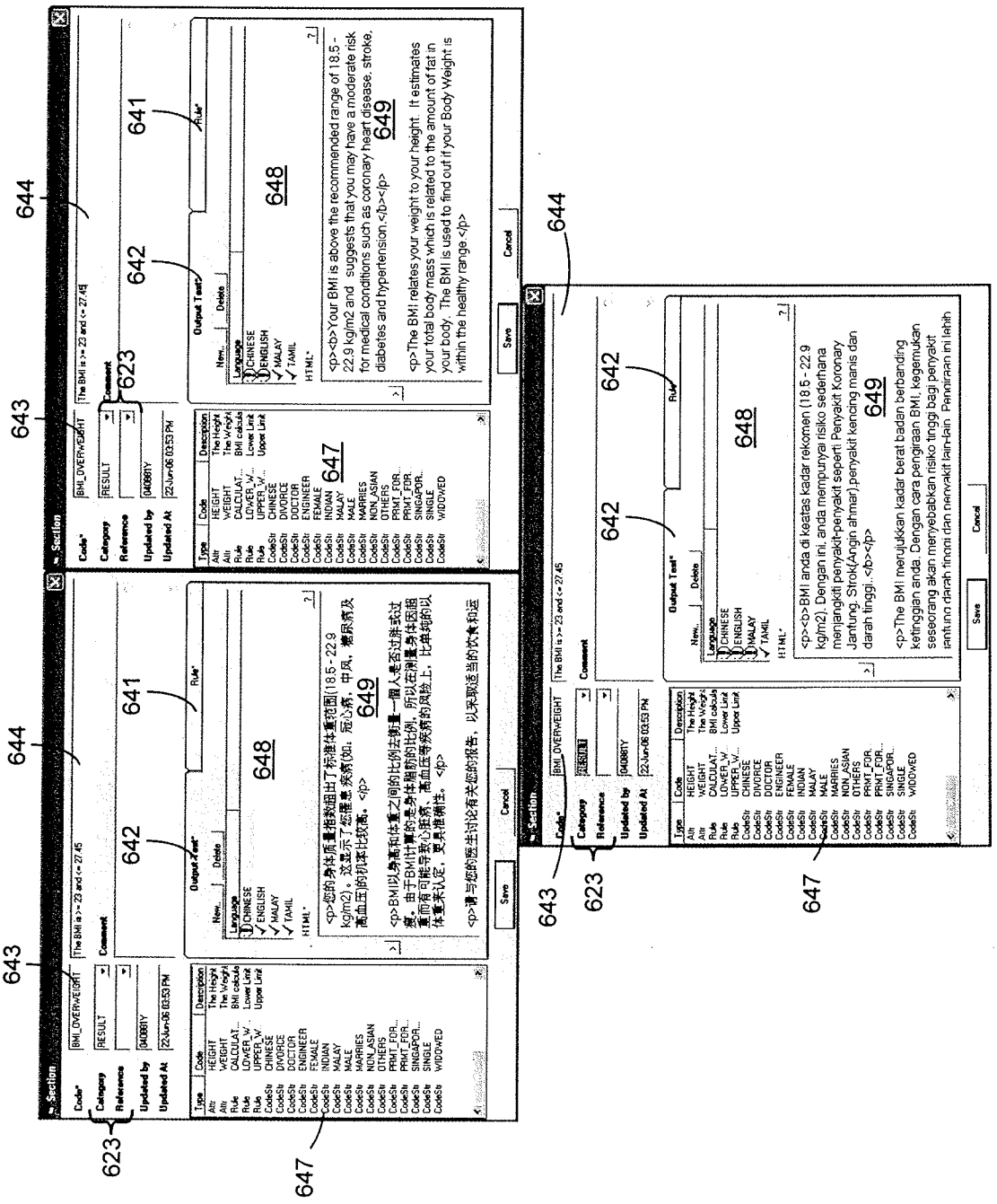


FIG. 6e

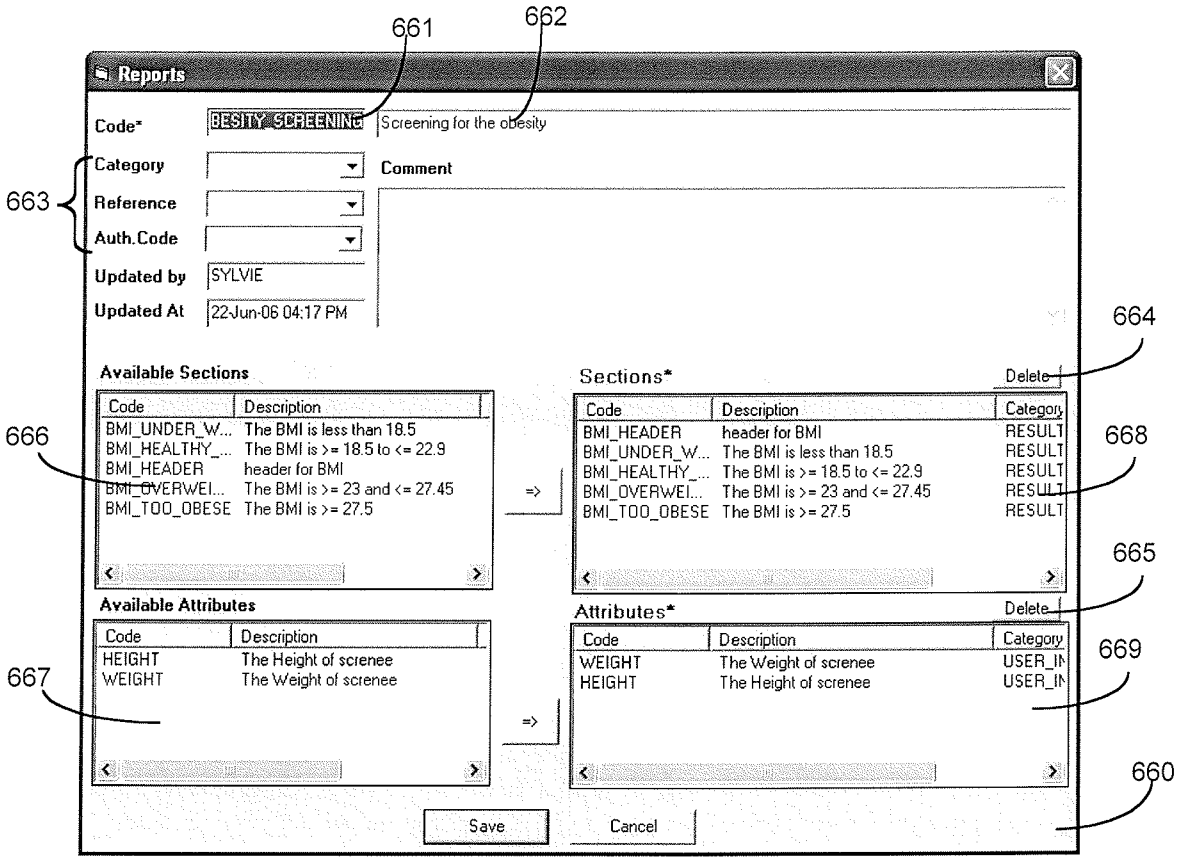

661
662
Reports
Code*
OBESITY_SCREENING
Screening for the obesity
Category
Comment
663
Reference
Auth.Code
Updated by
SYLVIE
Updated At
22-Jun-06 04:17 PM
664
Available Sections
Sections*
Delete
Code
Description
Category
BMI_UNDER_W...
The BMI is less than 18.5
BMI_HEALTHY_...
The BMI is >= 18.5 to <= 22.9
BMI_HEADER
header for BMI
BMI_OVERWEI...
The BMI is >= 23 and <= 27.45
BMI_TOO_OBESE
The BMI is >= 27.5
RESULT
666
668
665
Available Attributes
Attributes*
HEIGHT
The Height of screnee
WEIGHT
The Weight of screnee
USER_IN
667
669
660
Save
Cancel

FIG. 6f

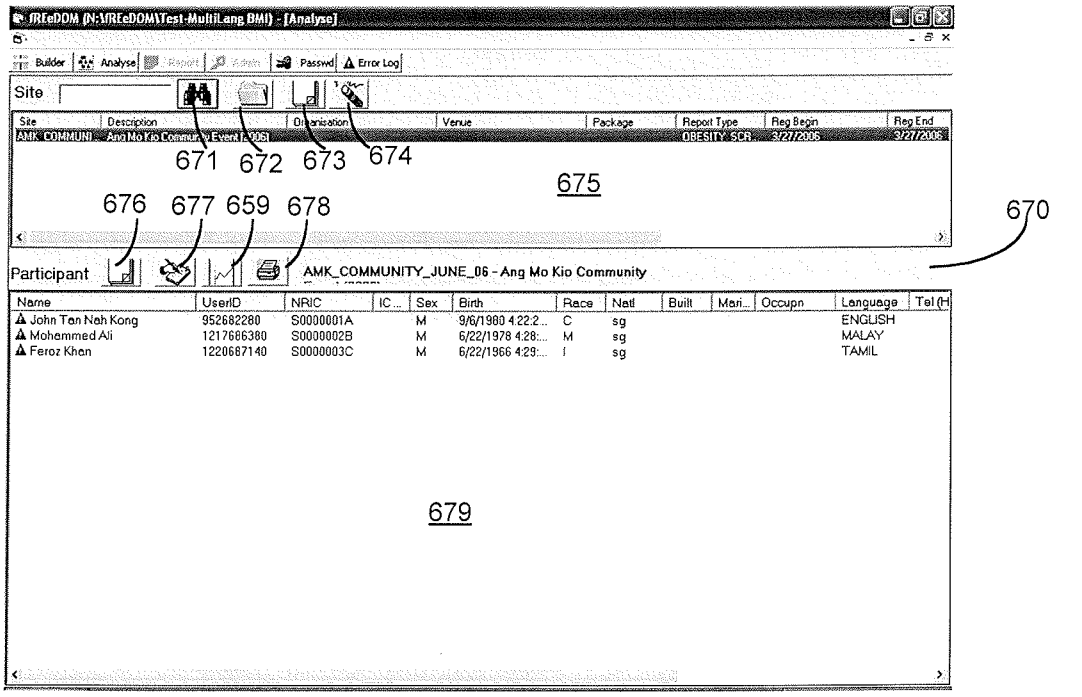

Builder
Analyse
Report
Passwd
Error Log
Site
Description
Organisation
Venue
Package
Report Type
Reg Begin
Reg End
671
672
673
674
675
676
677
659
678
670
Participant
AMK_COMMUNITY_JUNE_06 - Ang Mo Kio Community
Name
UserID
NRIC
Sex
Birth
Race
Natl
Language
John Tan Nah Kong
952682280
S0000001A
M
ENGLISH
Mohammed Ali
1217686380
S0000002B
M
MALAY
Feroz Khan
1220687140
S0000003C
M
TAMIL
679

FIG. 6g

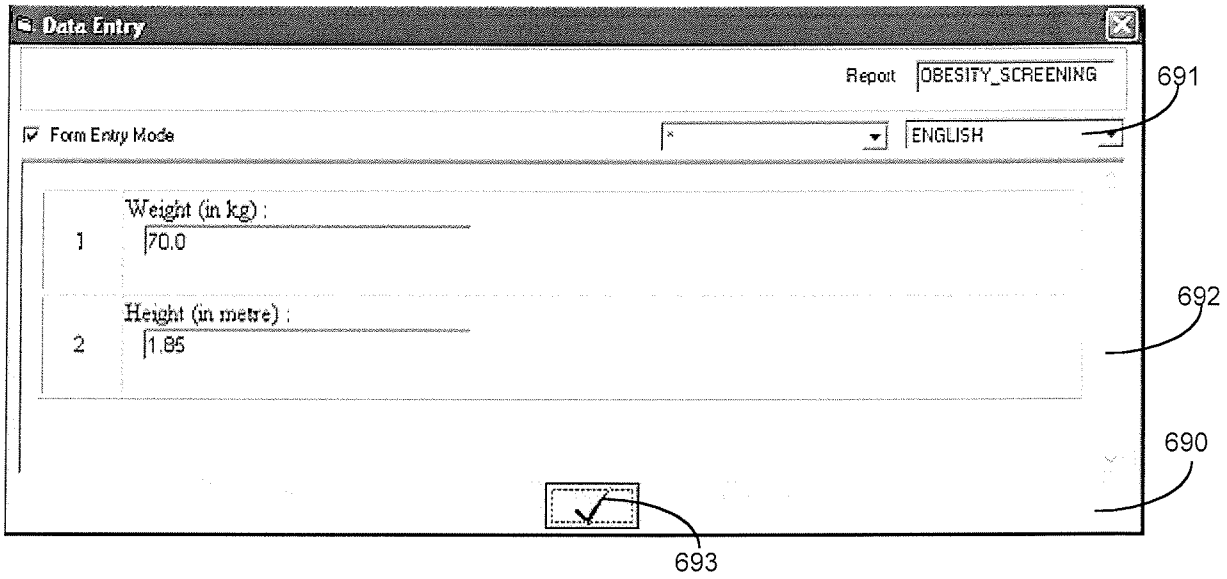

Data Entry
Report
OBESITY_SCREENING
691
Form Entry Mode
ENGLISH
Weight (in kg) :
1
70.0
Height (in metre) :
2
1.85
692
690
693

FIG. 6h

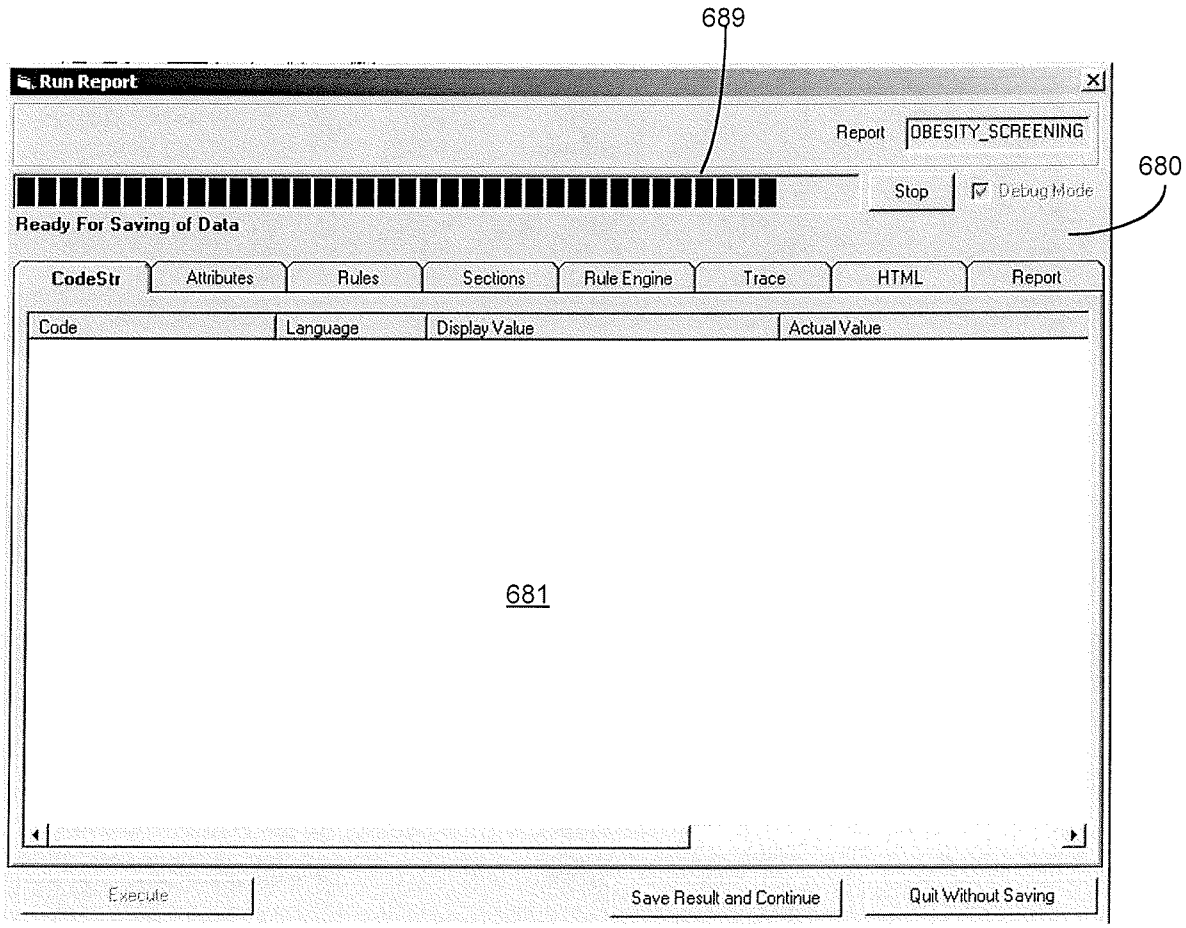

689
Run Report
Report
OBESITY_SCREENING
680
Stop
Debug Mode
Ready For Saving of Data
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Code
Language
Display Value
Actual Value
681
Execute
Save Result and Continue
Quit Without Saving

FIG. 6i

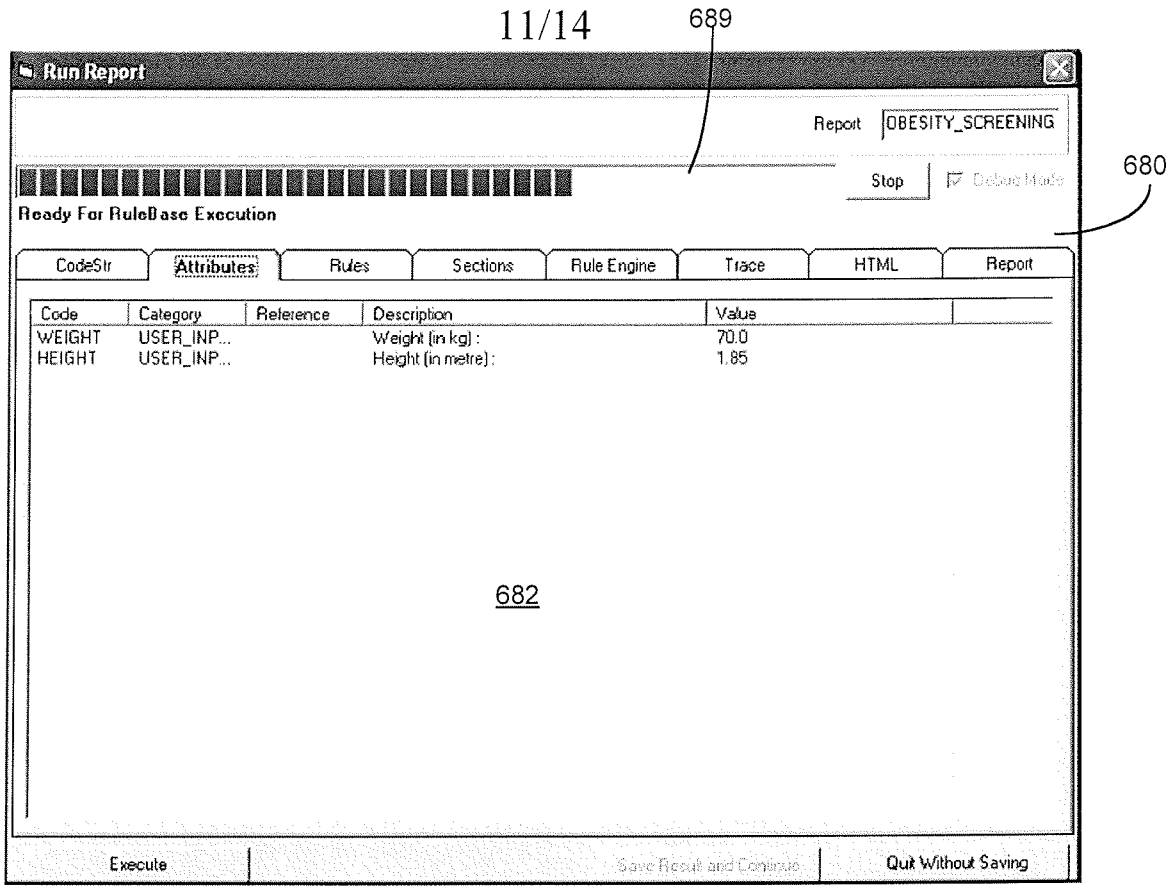

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For RuleBase Execution
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Code
Category
Reference
Description
Value
WEIGHT
USER_INP...
Weight (in kg) :
70.0
HEIGHT
USER_INP...
Height (in metre) :
1.85
682
Execute
Save Result and Continue
Quit Without Saving

FIG. 6j

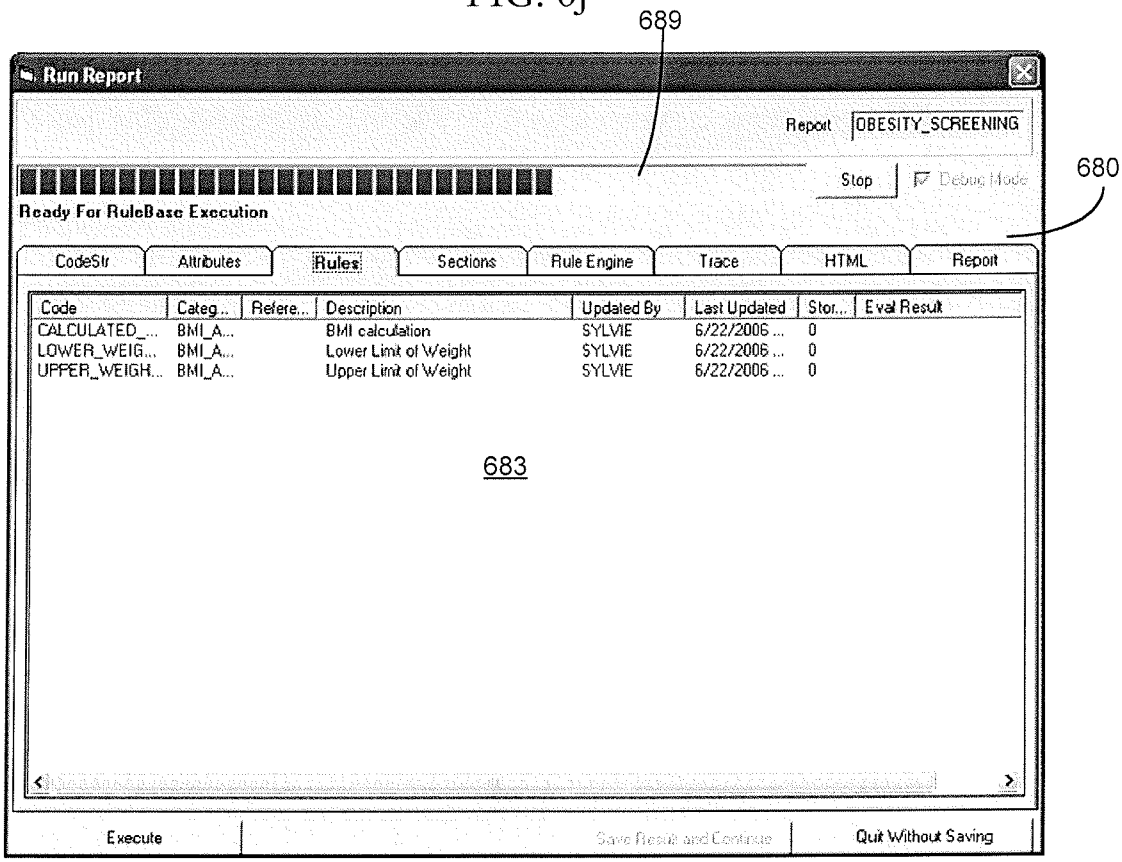

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For RuleBase Execution
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Code
Categ...
Refere...
Description
Updated By
Last Updated
Stor...
Eval Result
CALCULATED_...
BMI_A...
BMI calculation
SYLVIE
6/22/2006 ...
0
LOWER_WEIG...
BMI_A...
Lower Limit of Weight
SYLVIE
6/22/2006 ...
0
UPPER_WEIGH...
BMI_A...
Upper Limit of Weight
SYLVIE
6/22/2006 ...
0
683
Execute
Save Result and Continue
Quit Without Saving

FIG. 6k

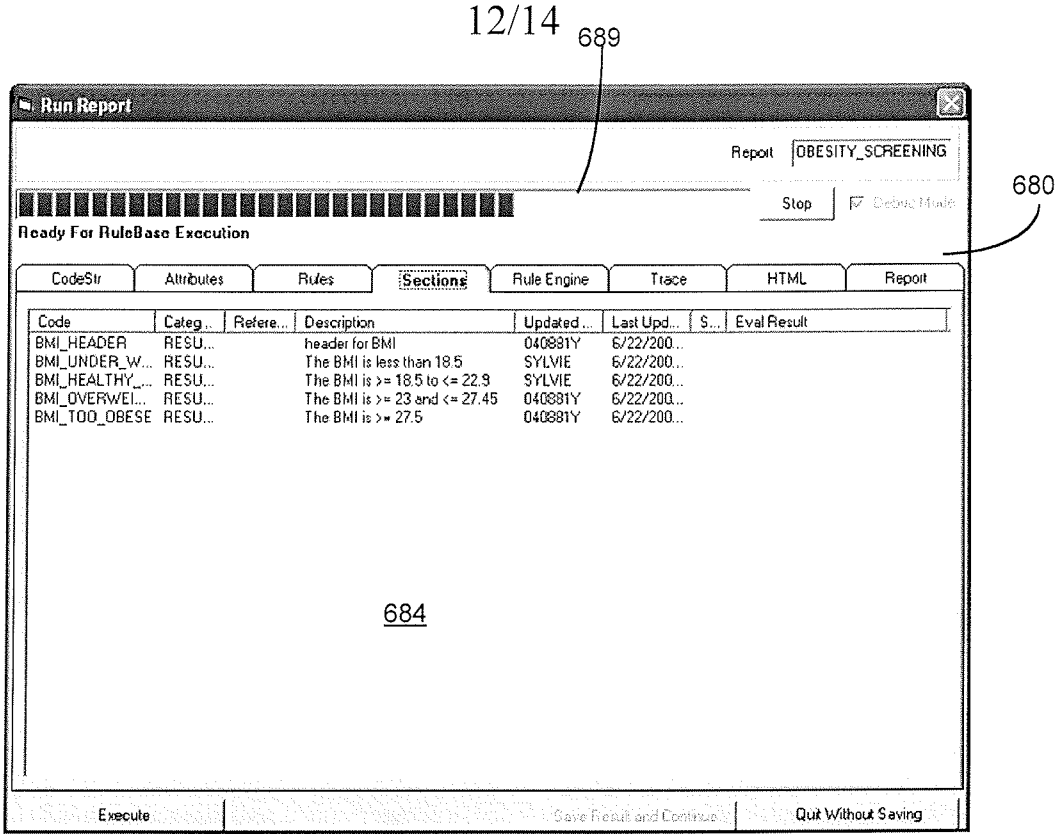

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For RuleBase Execution
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Code
Categ..
Refere...
Description
Updated...
Last Upd...
S...
Eval Result
BMI_HEADER RESU... header for BMI 040881Y 6/22/200...
BMI_UNDER_W... RESU... The BMI is less than 18.5 SYLVIE 6/22/200...
BMI_HEALTHY_... RESU... The BMI is >= 18.5 to <= 22.9 SYLVIE 6/22/200...
BMI_OVERWEI... RESU... The BMI is >= 23 and <= 27.45 040881Y 6/22/200...
BMI_TOO_OBESE RESU... The BMI is >= 27.5 040881Y 6/22/200...
684
Execute
Save Result and Continue
Quit Without Saving

FIG. 6l

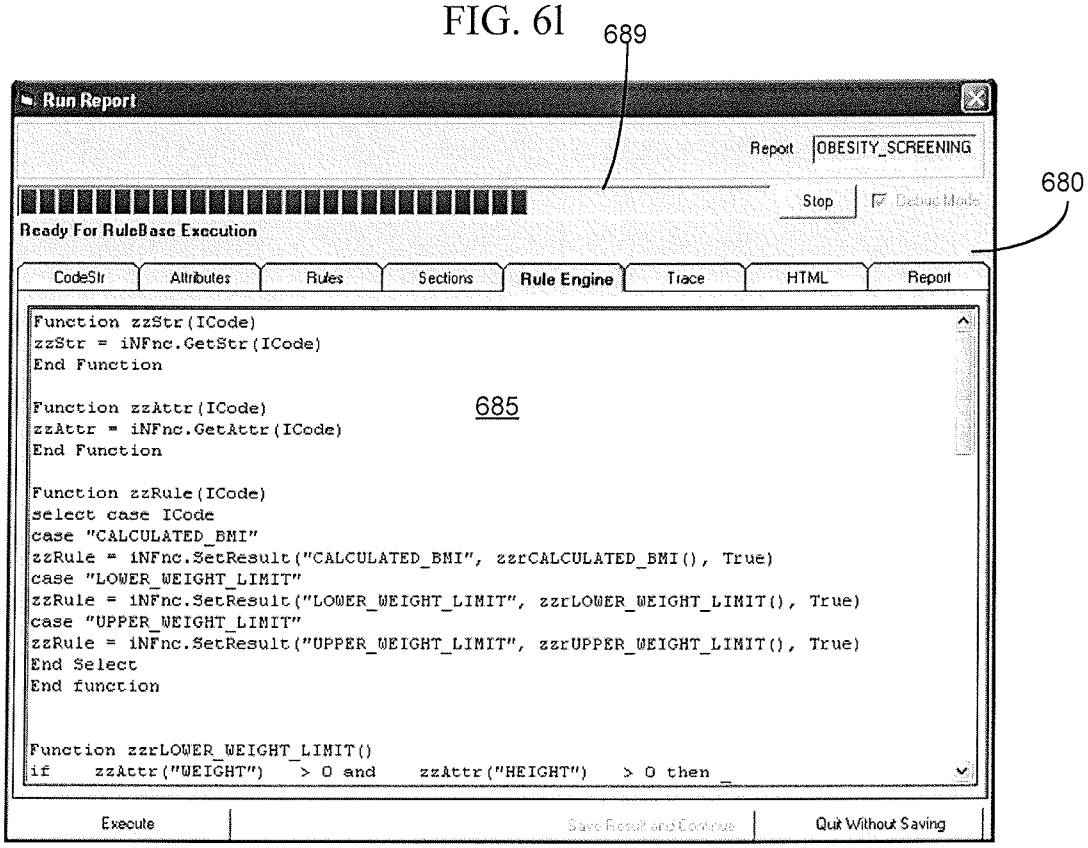

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For RuleBase Execution
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Function zzStr(ICode)
zzStr = iNFnc.GetStr(ICode)
End Function
Function zzAttr(ICode)
zzAttr = iNFnc.GetAttr(ICode)
End Function
685
Function zzRule(ICode)
select case ICode
case "CALCULATED_BMI"
zzRule = iNFnc.SetResult("CALCULATED_BMI", zzrCALCULATED_BMI(), True)
case "LOWER_WEIGHT_LIMIT"
zzRule = iNFnc.SetResult("LOWER_WEIGHT_LIMIT", zzrLOWER_WEIGHT_LIMIT(), True)
case "UPPER_WEIGHT_LIMIT"
zzRule = iNFnc.SetResult("UPPER_WEIGHT_LIMIT", zzrUPPER_WEIGHT_LIMIT(), True)
End Select
End function
Function zzrLOWER_WEIGHT_LIMIT()
if zzAttr("WEIGHT") > 0 and zzAttr("HEIGHT") > 0 then _
Execute
Save Result and Continue
Quit Without Saving

FIG. 6m

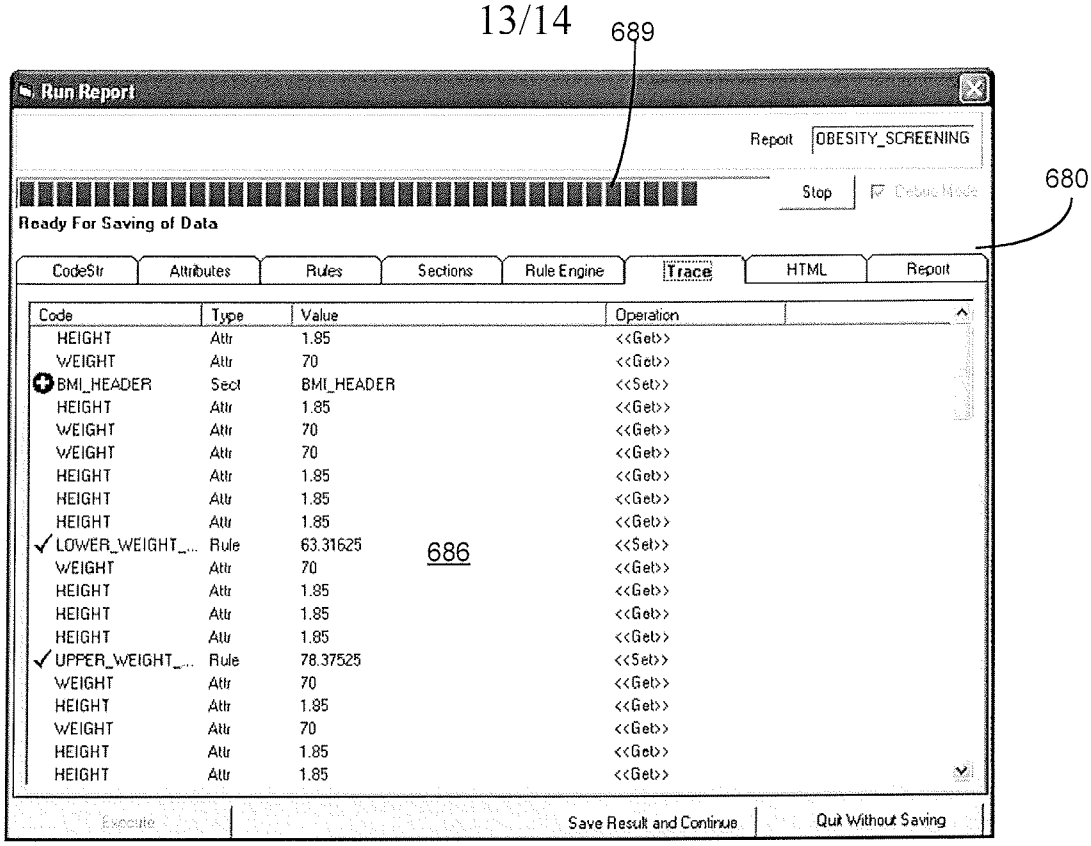

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For Saving of Data
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Code
Type
Value
Operation
HEIGHT Attr 1.85 <<Get>>
WEIGHT Attr 70 <<Get>>
BMI_HEADER Sect BMI_HEADER <<Set>>
HEIGHT Attr 1.85 <<Get>>
WEIGHT Attr 70 <<Get>>
WEIGHT Attr 70 <<Get>>
HEIGHT Attr 1.85 <<Get>>
HEIGHT Attr 1.85 <<Get>>
HEIGHT Attr 1.85 <<Get>>
LOWER_WEIGHT_... Rule 63.31625 <<Set>>
686
WEIGHT Attr 70 <<Get>>
HEIGHT Attr 1.85 <<Get>>
HEIGHT Attr 1.85 <<Get>>
HEIGHT Attr 1.85 <<Get>>
UPPER_WEIGHT_... Rule 78.37525 <<Set>>
WEIGHT Attr 70 <<Get>>
HEIGHT Attr 1.85 <<Get>>
WEIGHT Attr 70 <<Get>>
HEIGHT Attr 1.85 <<Get>>
HEIGHT Attr 1.85 <<Get>>
Execute
Save Result and Continue
Quit Without Saving

FIG. 6n

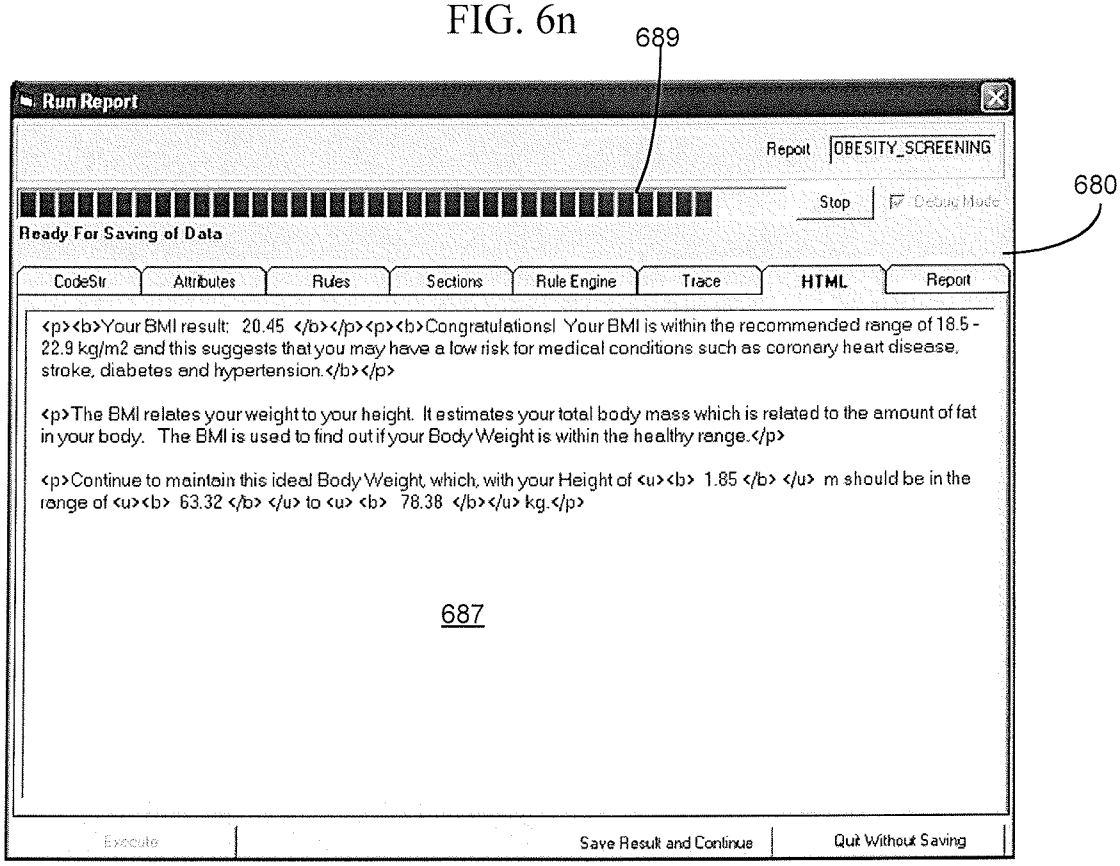

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
Ready For Saving of Data
680
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Your BMI result: 20.45 Congratulations! Your BMI is within the recommended range of 18.5 - 22.9 kg/m2 and this suggests that you may have a low risk for medical conditions such as coronary heart disease, stroke, diabetes and hypertension.
The BMI relates your weight to your height. It estimates your total body mass which is related to the amount of fat in your body. The BMI is used to find out if your Body Weight is within the healthy range.
Continue to maintain this ideal Body Weight, which, with your Height of <u> 1.85 </u> m should be in the range of <u> 63.32 </u> to <u> 78.38 </u> kg.
687
Execute
Save Result and Continue
Quit Without Saving

FIG. 6o

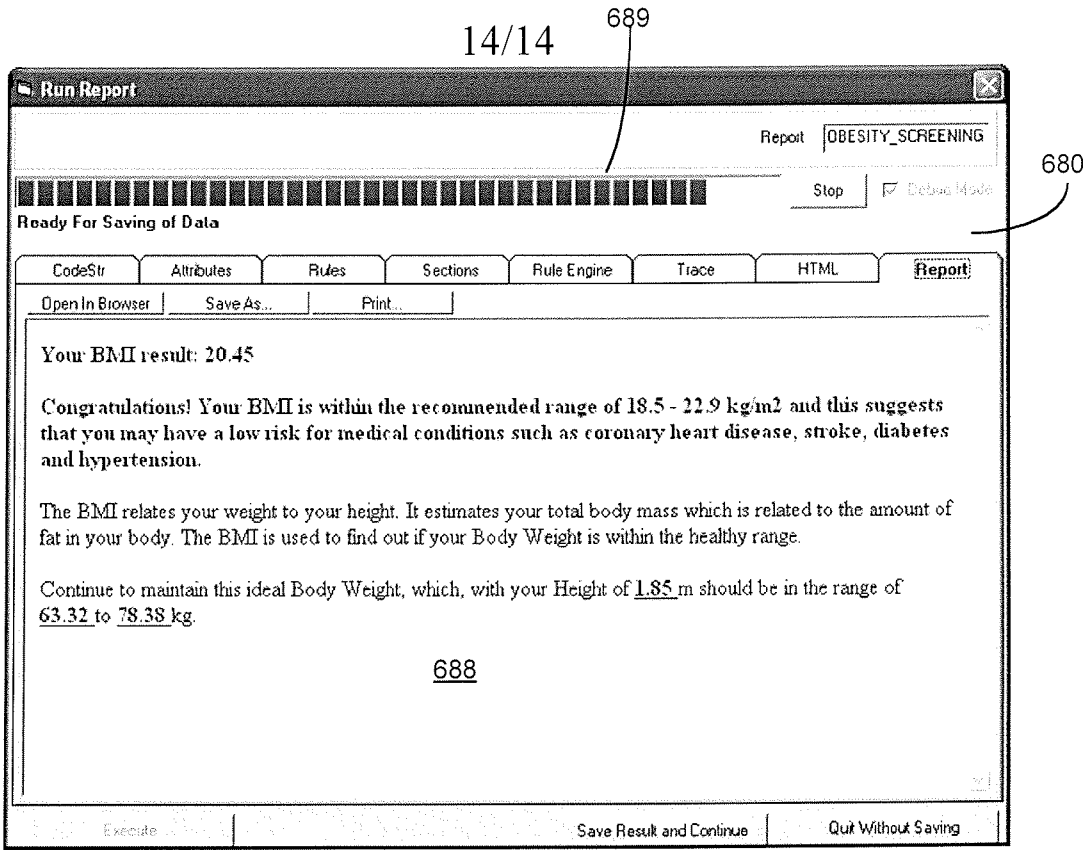

689
Run Report
Report
OBESITY_SCREENING
Stop
Debug Mode
680
Ready For Saving of Data
CodeStr
Attributes
Rules
Sections
Rule Engine
Trace
HTML
Report
Open In Browser
Save As...
Print...
Your BMI result: 20.45
Congratulations! Your BMI is within the recommended range of 18.5 - 22.9 kg/m2 and this suggests that you may have a low risk for medical conditions such as coronary heart disease, stroke, diabetes and hypertension.
The BMI relates your weight to your height. It estimates your total body mass which is related to the amount of fat in your body. The BMI is used to find out if your Body Weight is within the healthy range.
Continue to maintain this ideal Body Weight, which, with your Height of 1.85 m should be in the range of 63.32 to 78.38 kg.
688
Execute
Save Result and Continue
Quit Without Saving

FIG. 6p