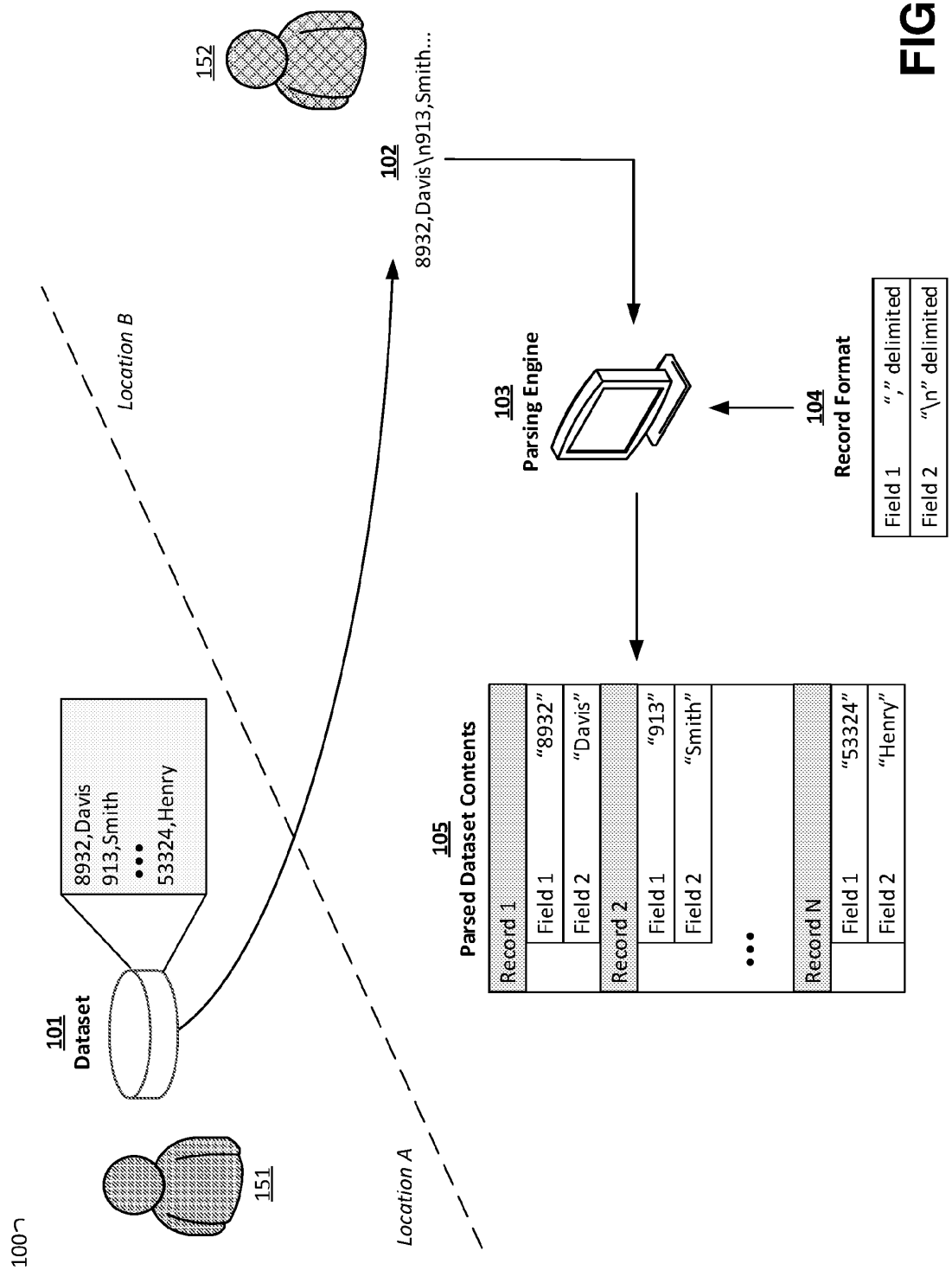

100
101
Dataset
8932,Davis
913,Smith
•••
53324,Henry
151
152
Location A
Location B
102
8932,Davis\n913,Smith...
103
Parsing Engine
104
Record Format
Field 1 "," delimited
Field 2 "\n" delimited
105
Parsed Dataset Contents
Record 1
Field 1 "8932"
Field 2 "Davis"
Record 2
Field 1 "913"
Field 2 "Smith"
•••
Record N
Field 1 "53324"
Field 2 "Henry"

FIG. 1

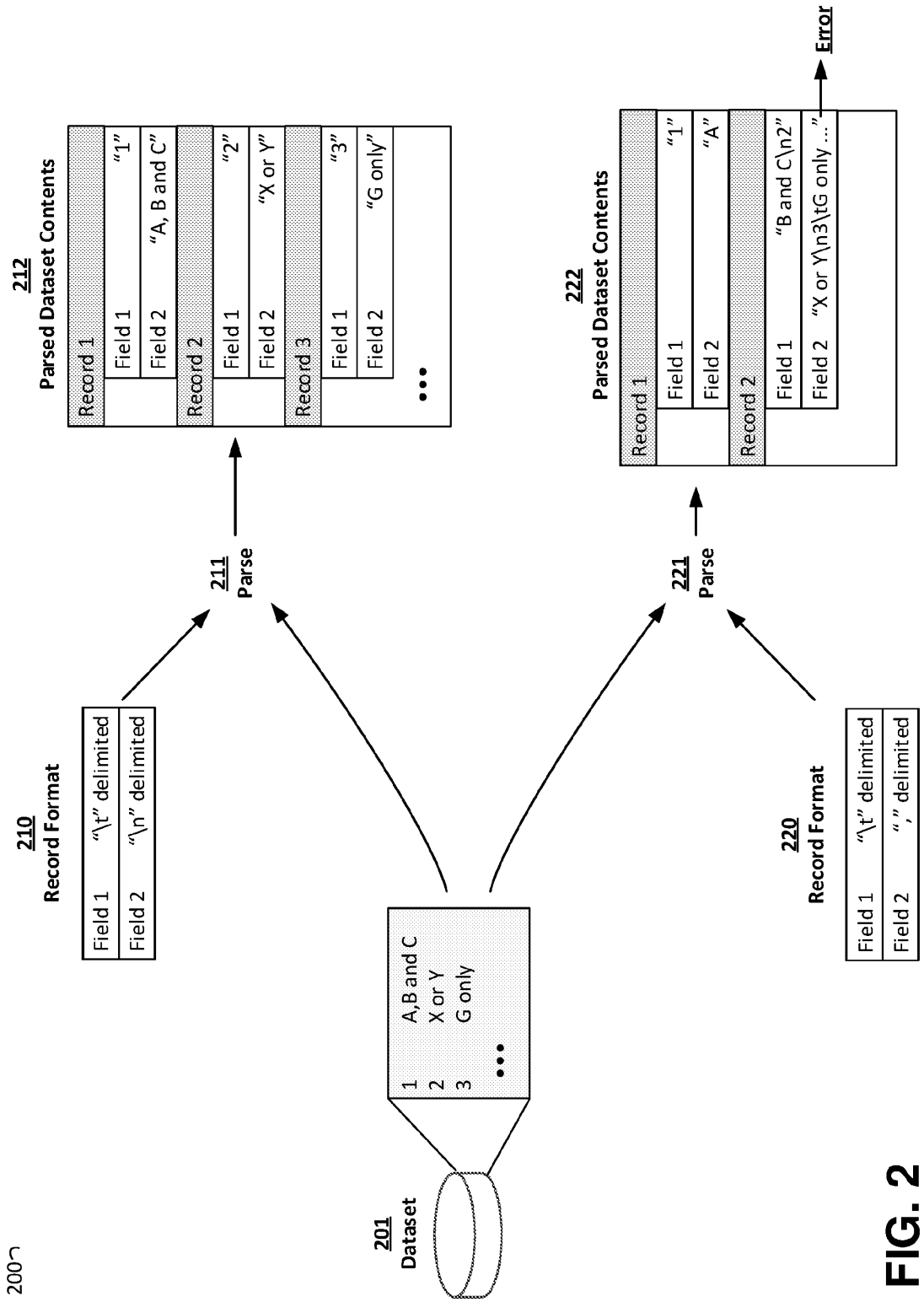

200
210
Record Format
Field 1 "\t" delimited
Field 2 "\n" delimited
201
Dataset
1 A,B and C
2 X or Y
3 G only
211
Parse
212
Parsed Dataset Contents
Record 1
Field 1 "1"
Field 2 "A, B and C"
Record 2
Field 1 "2"
Field 2 "X or Y"
Record 3
Field 1 "3"
Field 2 "G only"
220
Record Format
Field 1 "\t" delimited
Field 2 "," delimited
221
Parse
222
Parsed Dataset Contents
Record 1
Field 1 "1"
Field 2 "A"
Record 2
Field 1 "B and C\n2"
Field 2 "X or Y\n3\tG only ..."
Error

FIG. 2

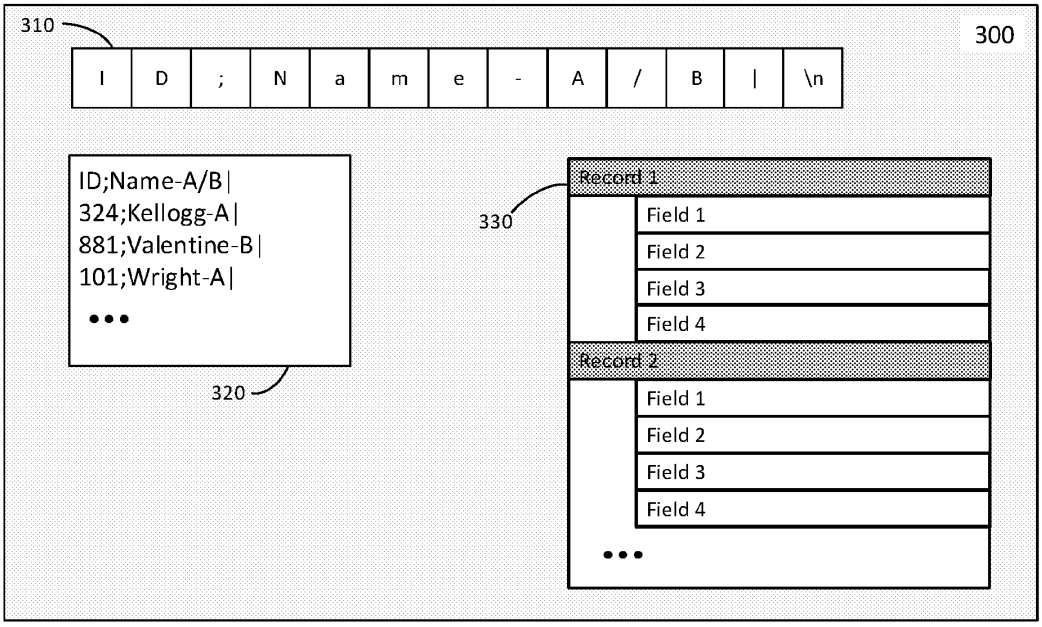

310
300
I
D
;
N
a
m
e
-
A
/
B
|
\n
ID;Name-A/B|
324;Kellogg-A|
881;Valentine-B|
101;Wright-A|
•••
320
330
Record 1
Field 1
Field 2
Field 3
Field 4
Record 2
Field 1
Field 2
Field 3
Field 4
•••

FIG. 3A

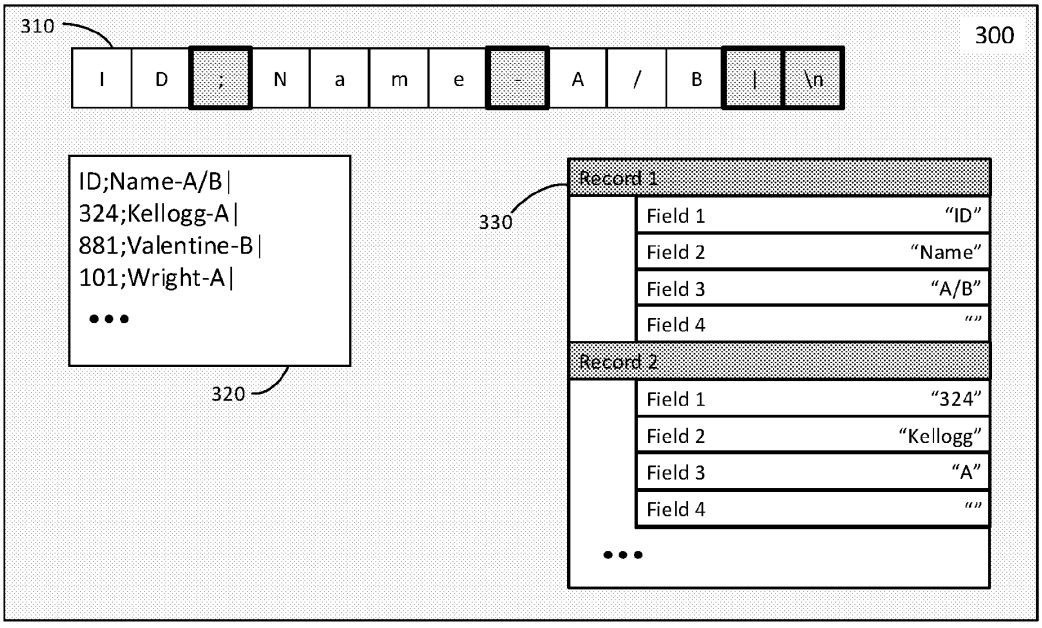

310
300
I
D
;
N
a
m
e
-
A
/
B
|
\n
ID;Name-A/B|
324;Kellogg-A|
881;Valentine-B|
101;Wright-A|
•••
320
330
Record 1
Field 1 "ID"
Field 2 "Name"
Field 3 "A/B"
Field 4 ""
Record 2
Field 1 "324"
Field 2 "Kellogg"
Field 3 "A"
Field 4 ""
•••

FIG. 3B

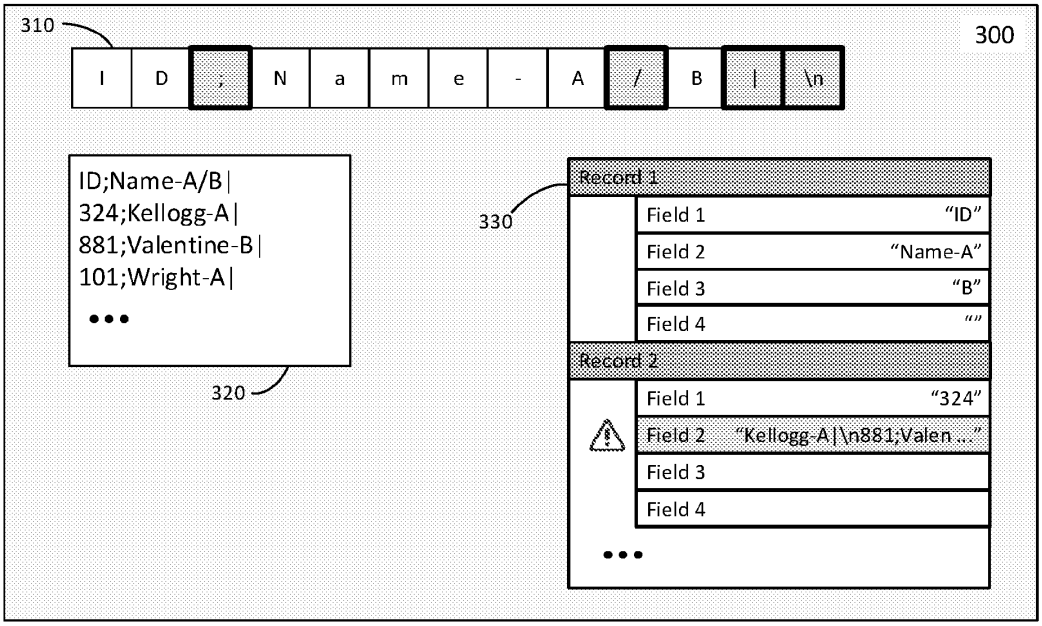

310
300
I
D
;
N
a
m
e
-
A
/
B
|
\n
ID;Name-A/B|
324;Kellogg-A|
881;Valentine-B|
101;Wright-A|
320
330
Record 1
Field 1 "ID"
Field 2 "Name-A"
Field 3 "B"
Field 4 ""
Record 2
Field 1 "324"
Field 2 "Kellogg-A|\n881;Valen ..."
Field 3
Field 4

FIG. 3C

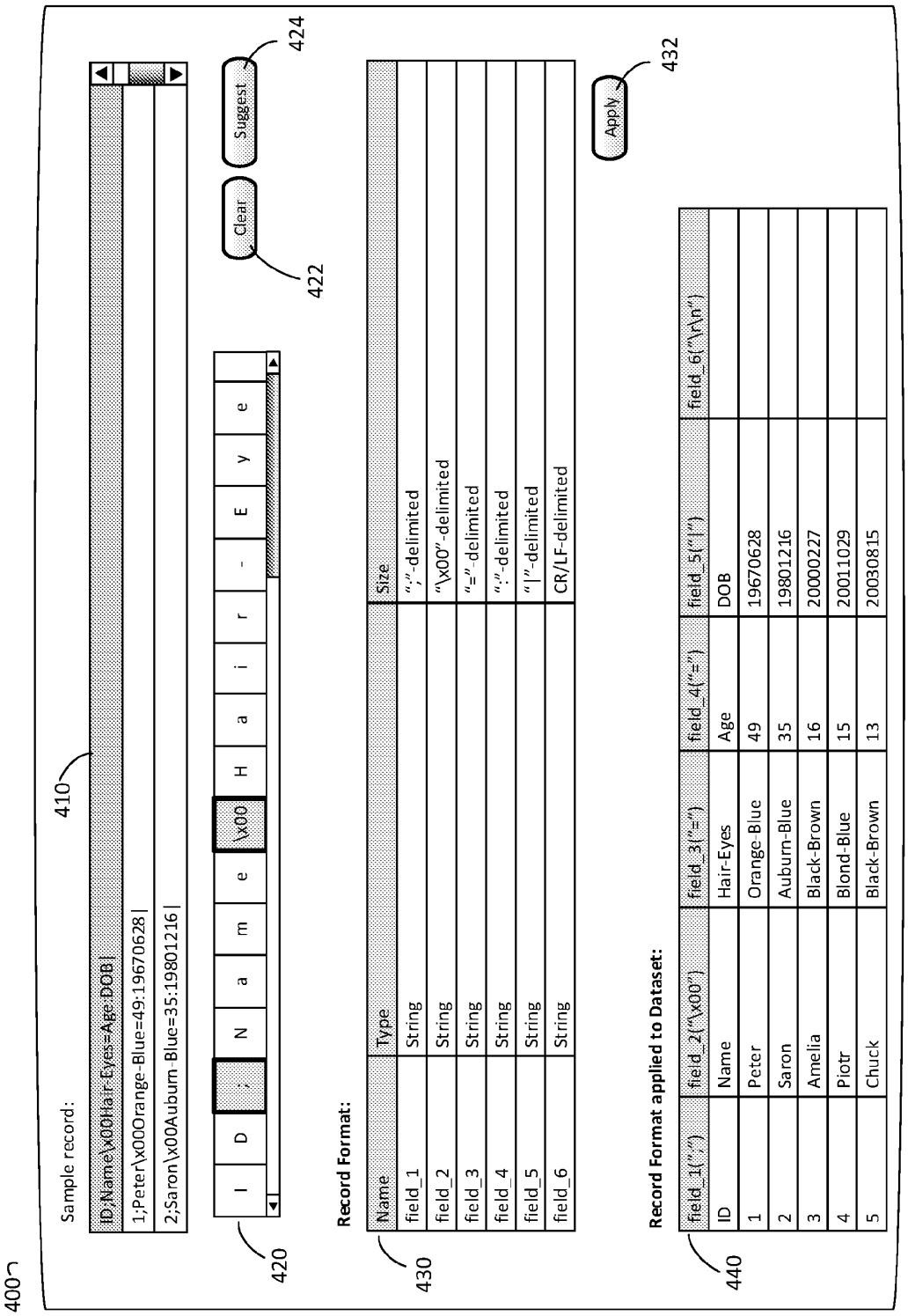

400
Sample record:
410
ID;Name\x00Hair-Eyes=Age:DOB|
1;Peter\x00Orange-Blue=49:19670628|
2;Saron\x00Auburn-Blue=35:19801216|
I D ; N a m e \x00 H a i r - E y e
420
Clear
422
Suggest
424
Apply
432
Record Format:
Name | Type | Size
field_1 | String | ";"-delimited
field_2 | String | "\x00"-delimited
field_3 | String | "="-delimited
field_4 | String | ":"-delimited
field_5 | String | "|"-delimited
field_6 | String | CR/LF-delimited
430
Record Format applied to Dataset:
field_1(";") | field_2("\x00") | field_3("=") | field_4(":") | field_5("|") | field_6("\r\n")
ID | Name | Hair-Eyes | Age | DOB
1 | Peter | Orange-Blue | 49 | 19670628
2 | Saron | Auburn-Blue | 35 | 19801216
3 | Amelia | Black-Brown | 16 | 20000227
4 | Piotr | Blond-Blue | 15 | 20011029
5 | Chuck | Black-Brown | 13 | 20030815
440

FIG. 4

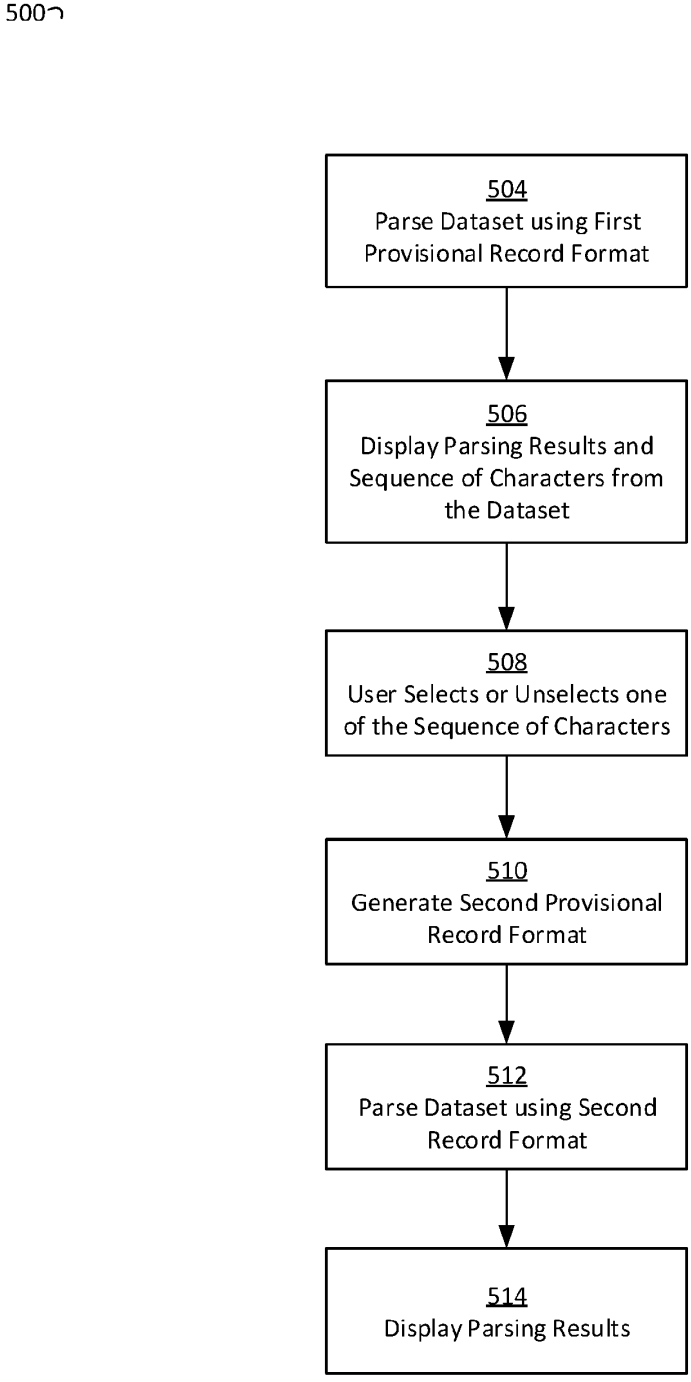

500
504
Parse Dataset using First Provisional Record Format
506
Display Parsing Results and Sequence of Characters from the Dataset
508
User Selects or Unselects one of the Sequence of Characters
510
Generate Second Provisional Record Format
512
Parse Dataset using Second Record Format
514
Display Parsing Results

FIG. 5

600

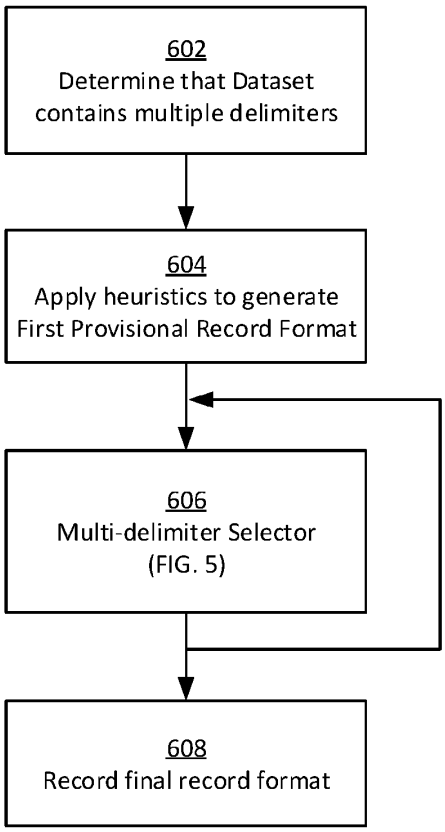

602
Determine that Dataset contains multiple delimiters
604
Apply heuristics to generate First Provisional Record Format
606
Multi-delimiter Selector (FIG. 5)
608
Record final record format

FIG. 6

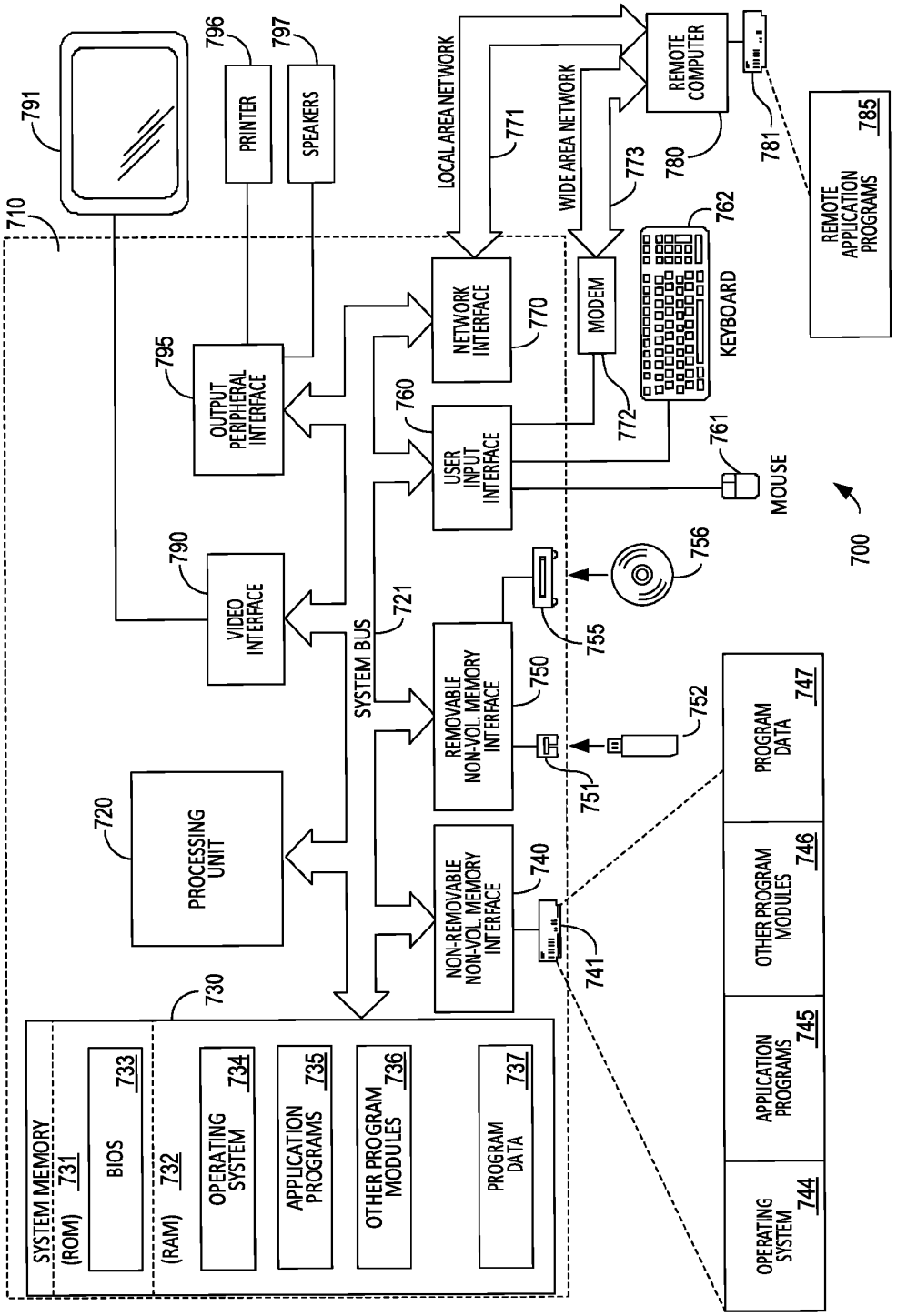

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781
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790
791
795
796
797
SYSTEM MEMORY
(ROM)
BIOS
(RAM)
OPERATING SYSTEM
APPLICATION PROGRAMS
OTHER PROGRAM MODULES
PROGRAM DATA
PROCESSING UNIT
NON-REMOVABLE NON-VOL. MEMORY INTERFACE
REMOVABLE NON-VOL. MEMORY INTERFACE
SYSTEM BUS
VIDEO INTERFACE
OUTPUT PERIPHERAL INTERFACE
USER INPUT INTERFACE
NETWORK INTERFACE
MODEM
LOCAL AREA NETWORK
WIDE AREA NETWORK
REMOTE COMPUTER
REMOTE APPLICATION PROGRAMS
KEYBOARD
MOUSE
PRINTER
SPEAKERS
OPERATING SYSTEM
APPLICATION PROGRAMS
OTHER PROGRAM MODULES
PROGRAM DATA

FIG. 7