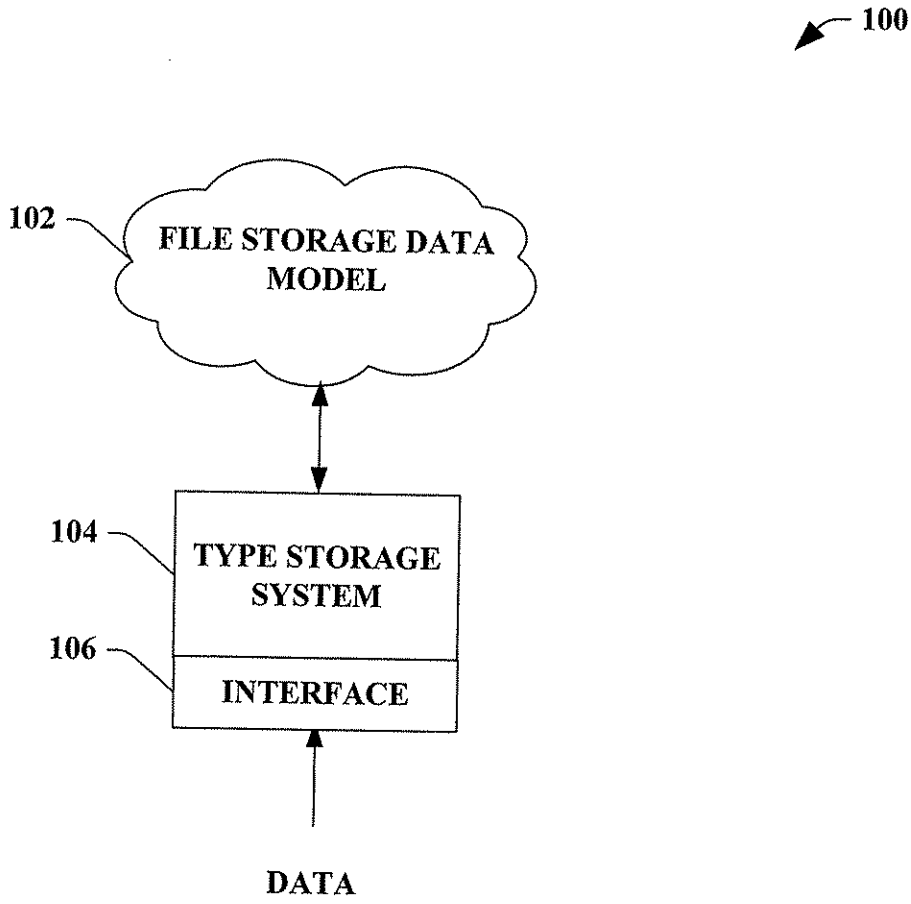

100
102
FILE STORAGE DATA MODEL
104
TYPE STORAGE SYSTEM
106
INTERFACE
DATA

FIG. 1

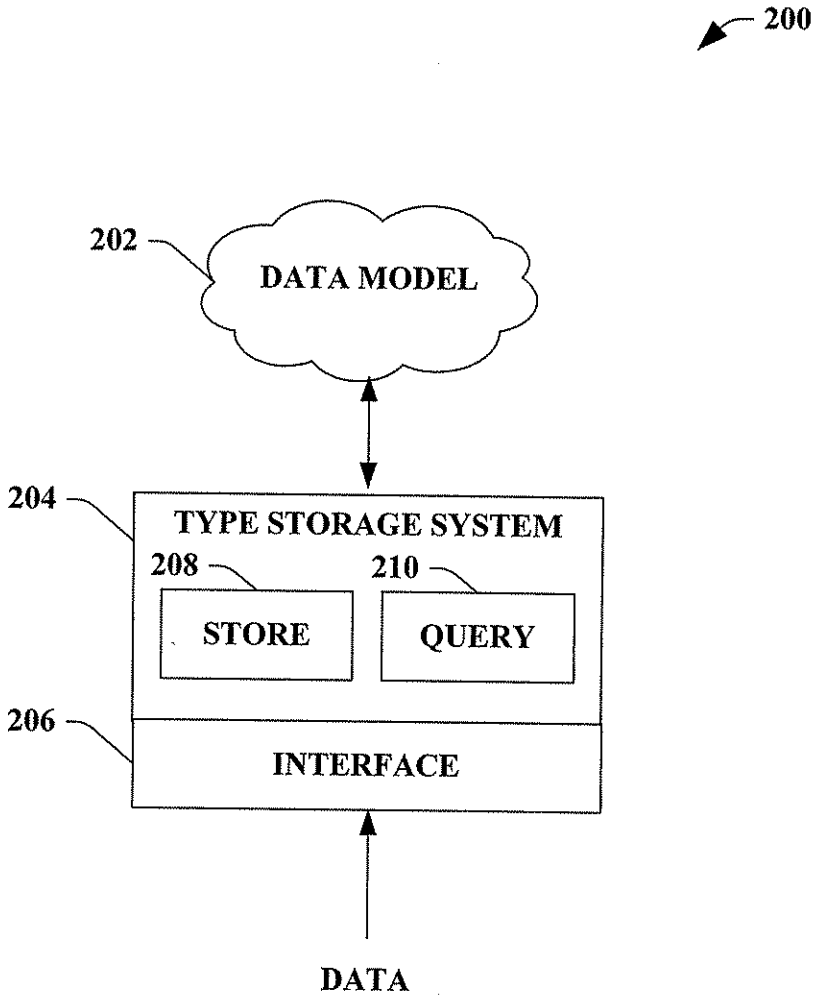

200
202
DATA MODEL
204
TYPE STORAGE SYSTEM
208
210
STORE
QUERY
206
INTERFACE
DATA

FIG. 2

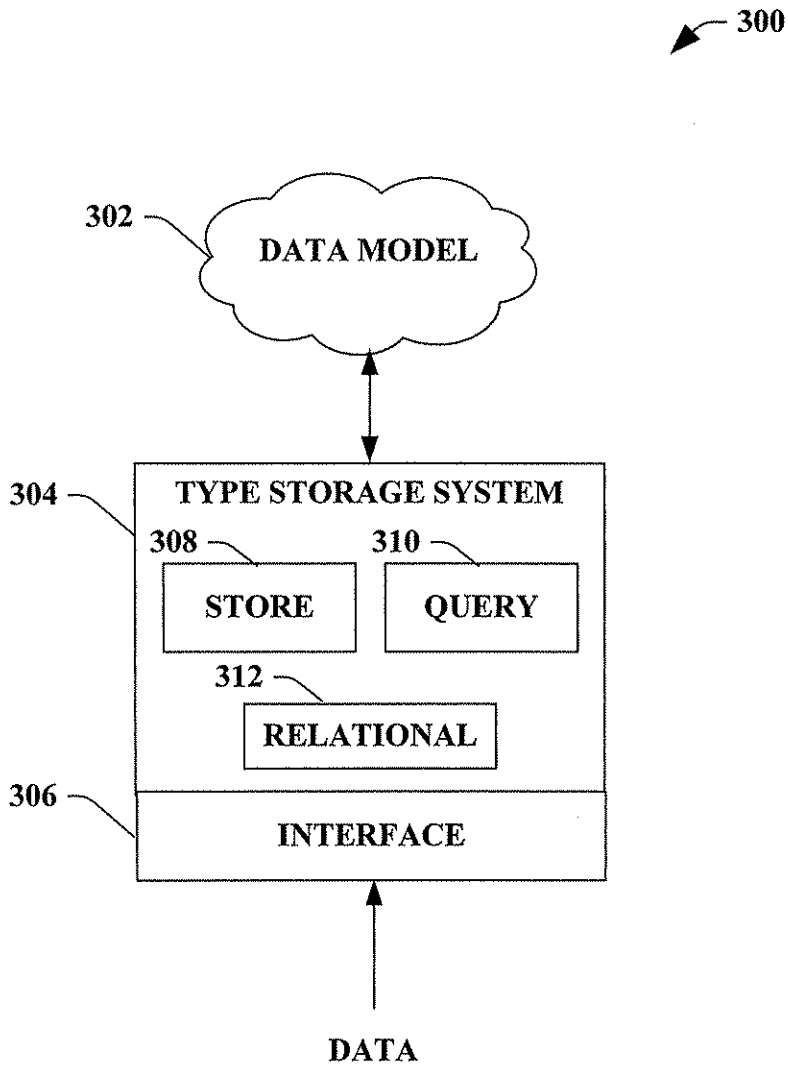

300
302
DATA MODEL
304
TYPE STORAGE SYSTEM
308
STORE
310
QUERY
312
RELATIONAL
306
INTERFACE
DATA

FIG. 3

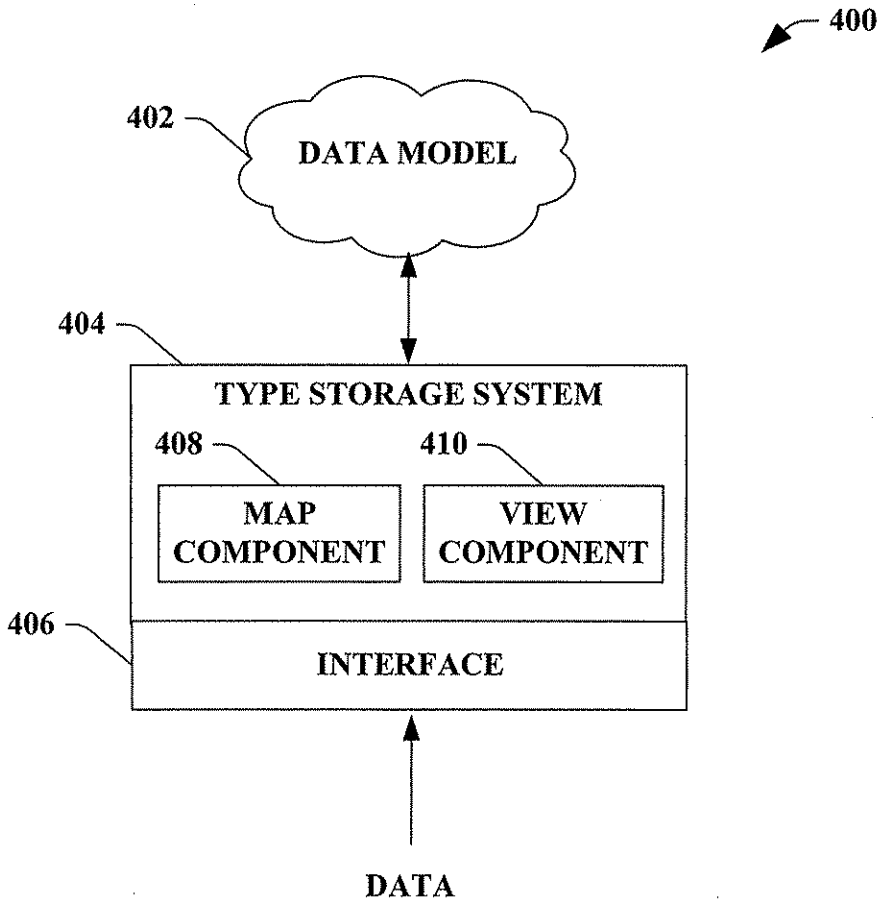

400
402
DATA MODEL
404
TYPE STORAGE SYSTEM
408
410
MAP COMPONENT
VIEW COMPONENT
406
INTERFACE
DATA

FIG. 4

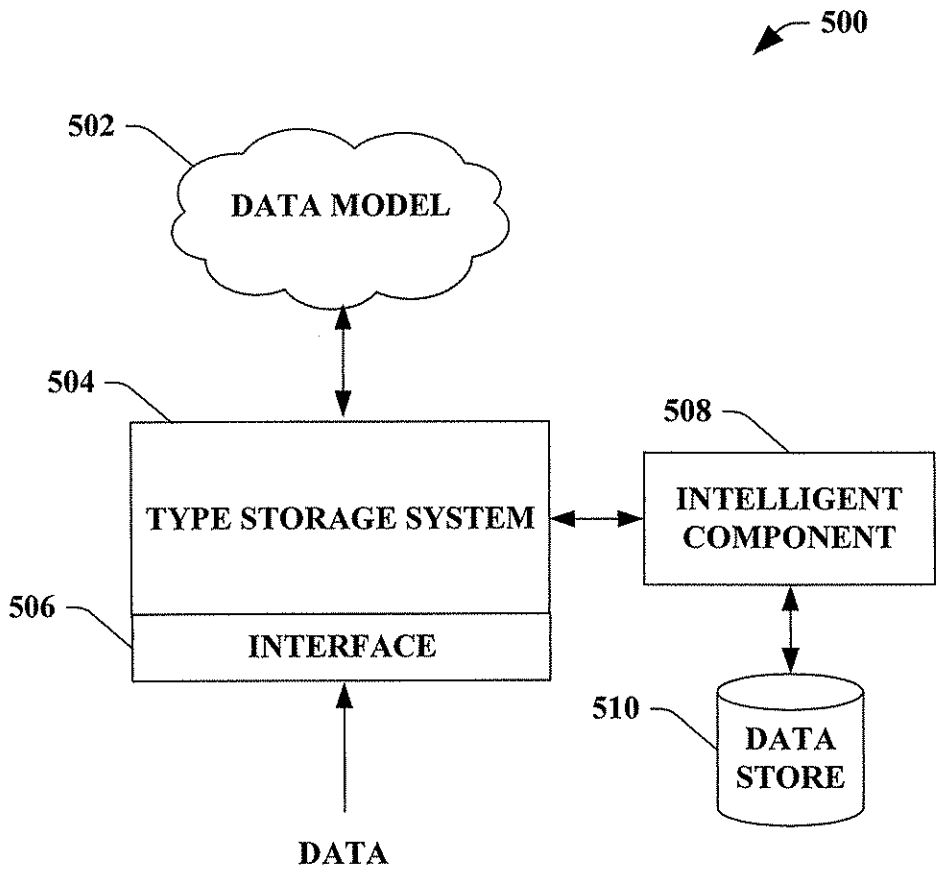

500
502
DATA MODEL
504
TYPE STORAGE SYSTEM
506
INTERFACE
508
INTELLIGENT COMPONENT
510
DATA STORE
DATA

FIG. 5

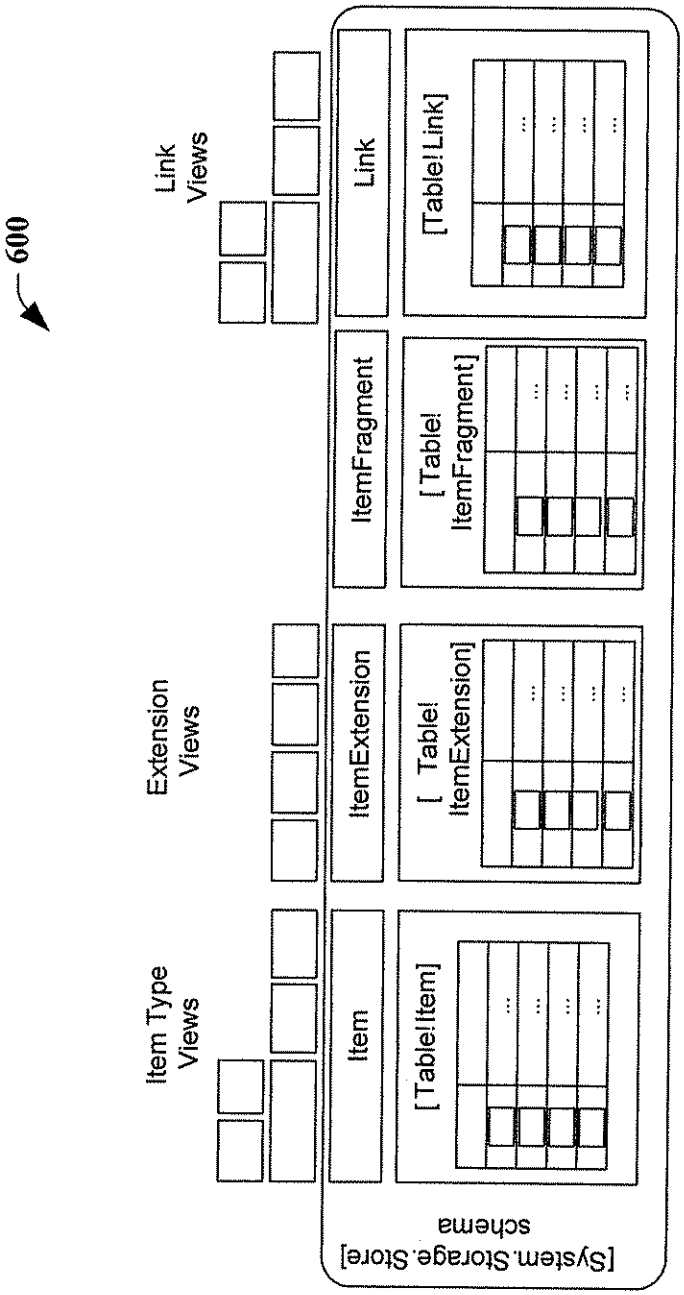

600
Item Type Views
Extension Views
Link Views
[System.Storage.Store] schema
Item
[Table!Item]
ItemExtension
[Table! ItemExtension]
ItemFragment
[Table! ItemFragment]
Link
[Table!Link]

FIG. 6

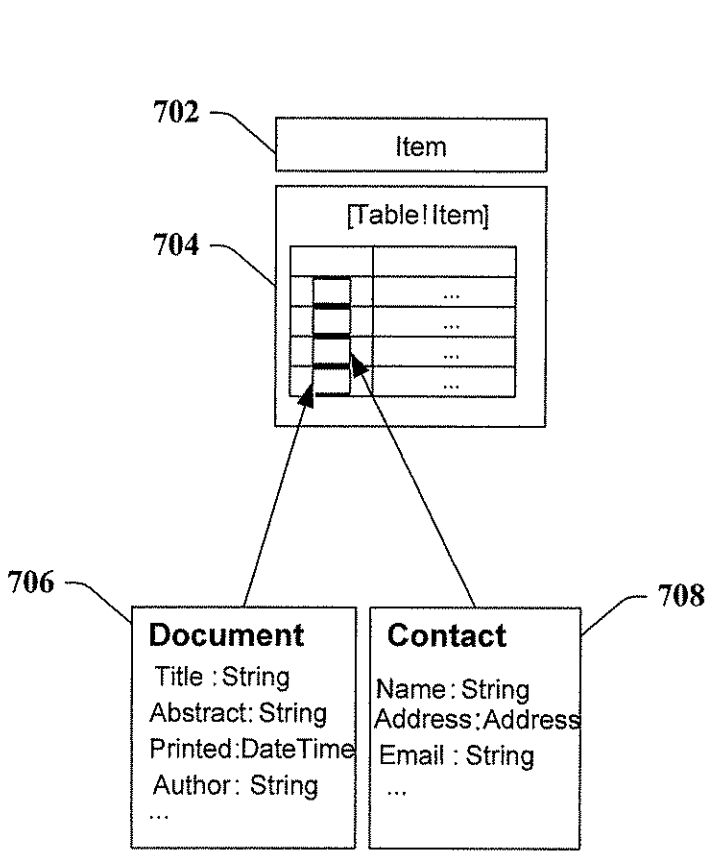

700
702
Item
[Table!Item]
704
...
...
...
...
706
708
Document
Title : String
Abstract: String
Printed:DateTime
Author : String
...
Contact
Name : String
Address:Address
Email : String
...

FIG. 7

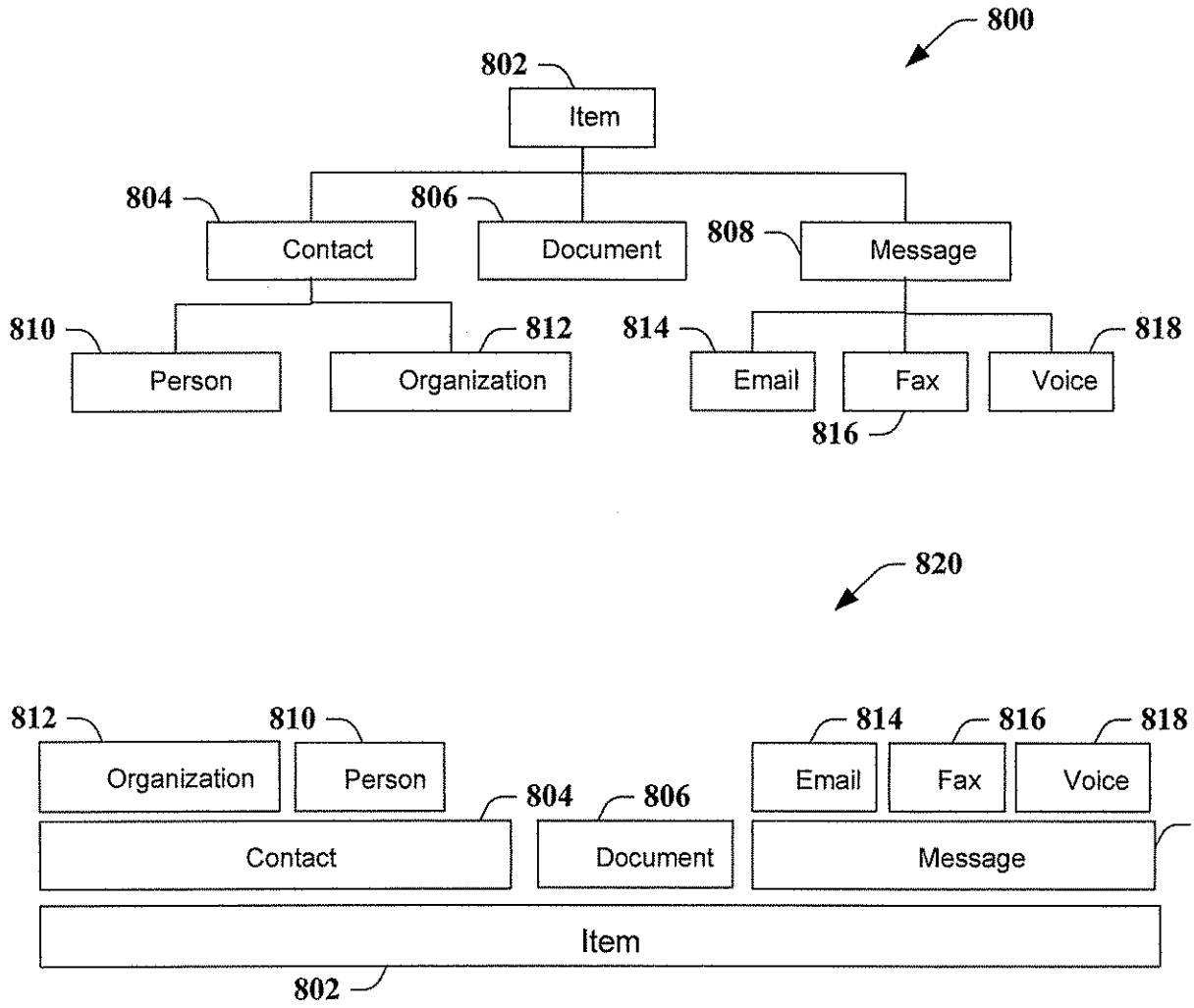

800
802
Item
804
Contact
806
Document
808
Message
810
Person
812
Organization
814
Email
816
Fax
818
Voice
820
812
Organization
810
Person
814
Email
816
Fax
818
Voice
804
Contact
806
Document
808
Message
Item
802

FIG. 8

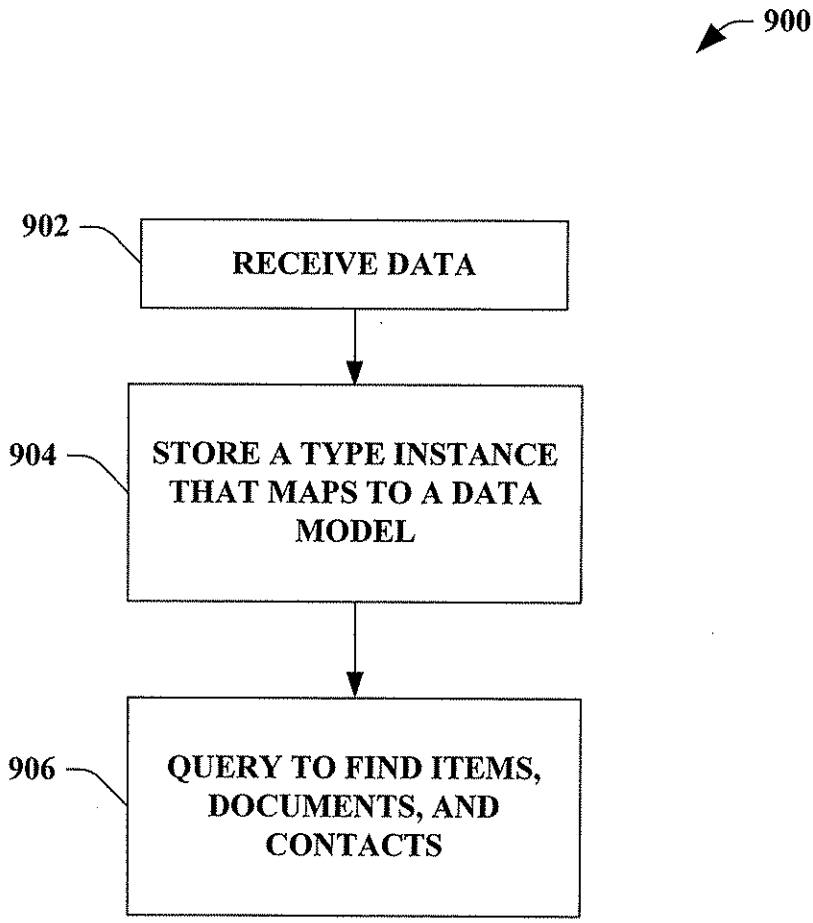

900
902
RECEIVE DATA
904
STORE A TYPE INSTANCE THAT MAPS TO A DATA MODEL
906
QUERY TO FIND ITEMS, DOCUMENTS, AND CONTACTS

FIG. 9

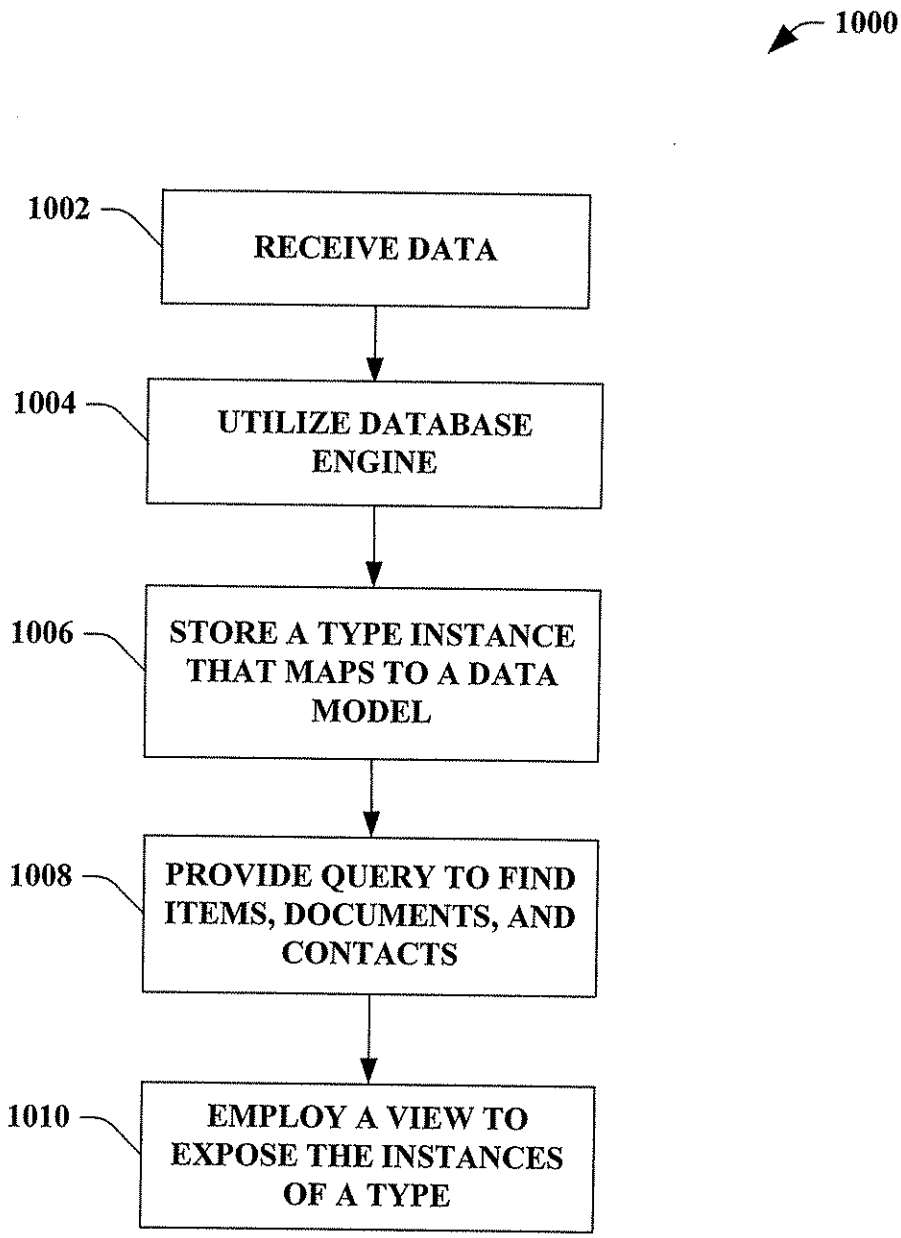

1000
1002
RECEIVE DATA
1004
UTILIZE DATABASE ENGINE
1006
STORE A TYPE INSTANCE THAT MAPS TO A DATA MODEL
1008
PROVIDE QUERY TO FIND ITEMS, DOCUMENTS, AND CONTACTS
1010
EMPLOY A VIEW TO EXPOSE THE INSTANCES OF A TYPE

FIG. 10

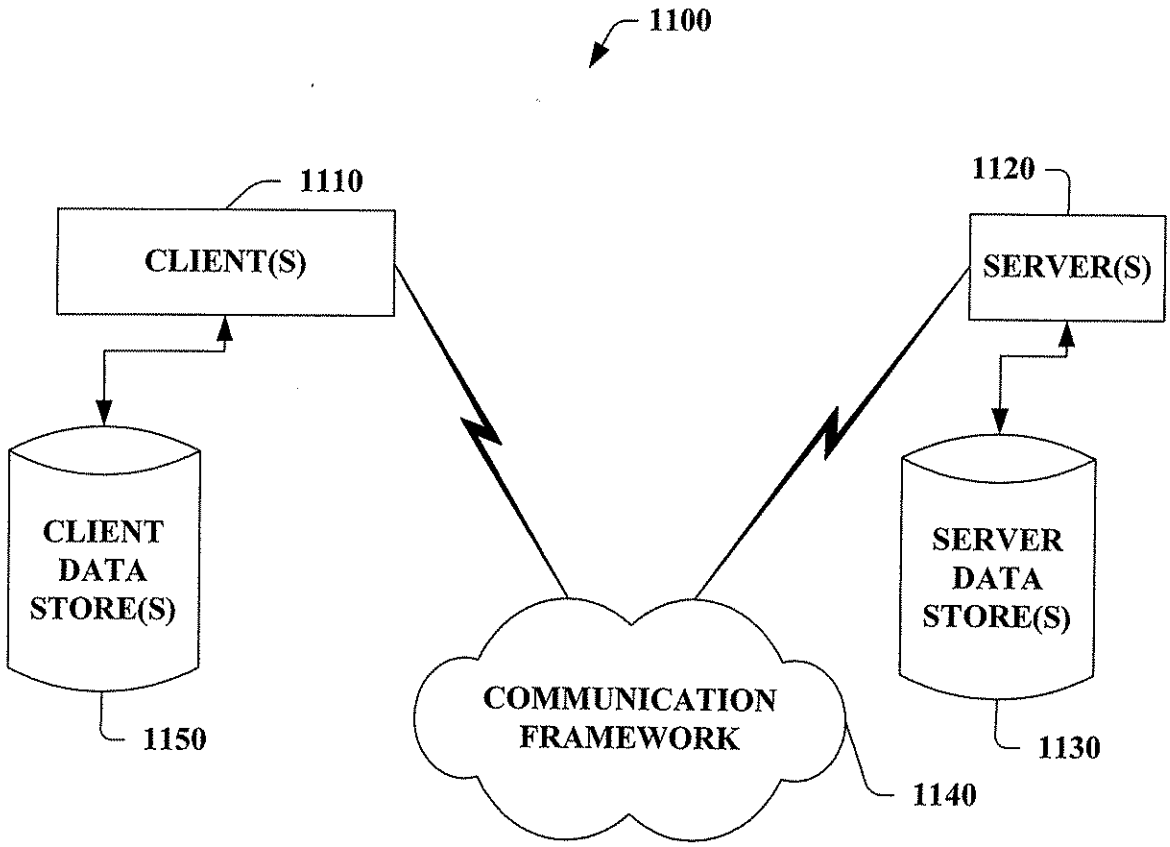

1100
1110
CLIENT(S)
1120
SERVER(S)
CLIENT DATA STORE(S)
1150
COMMUNICATION FRAMEWORK
1140
SERVER DATA STORE(S)
1130

FIG. 11

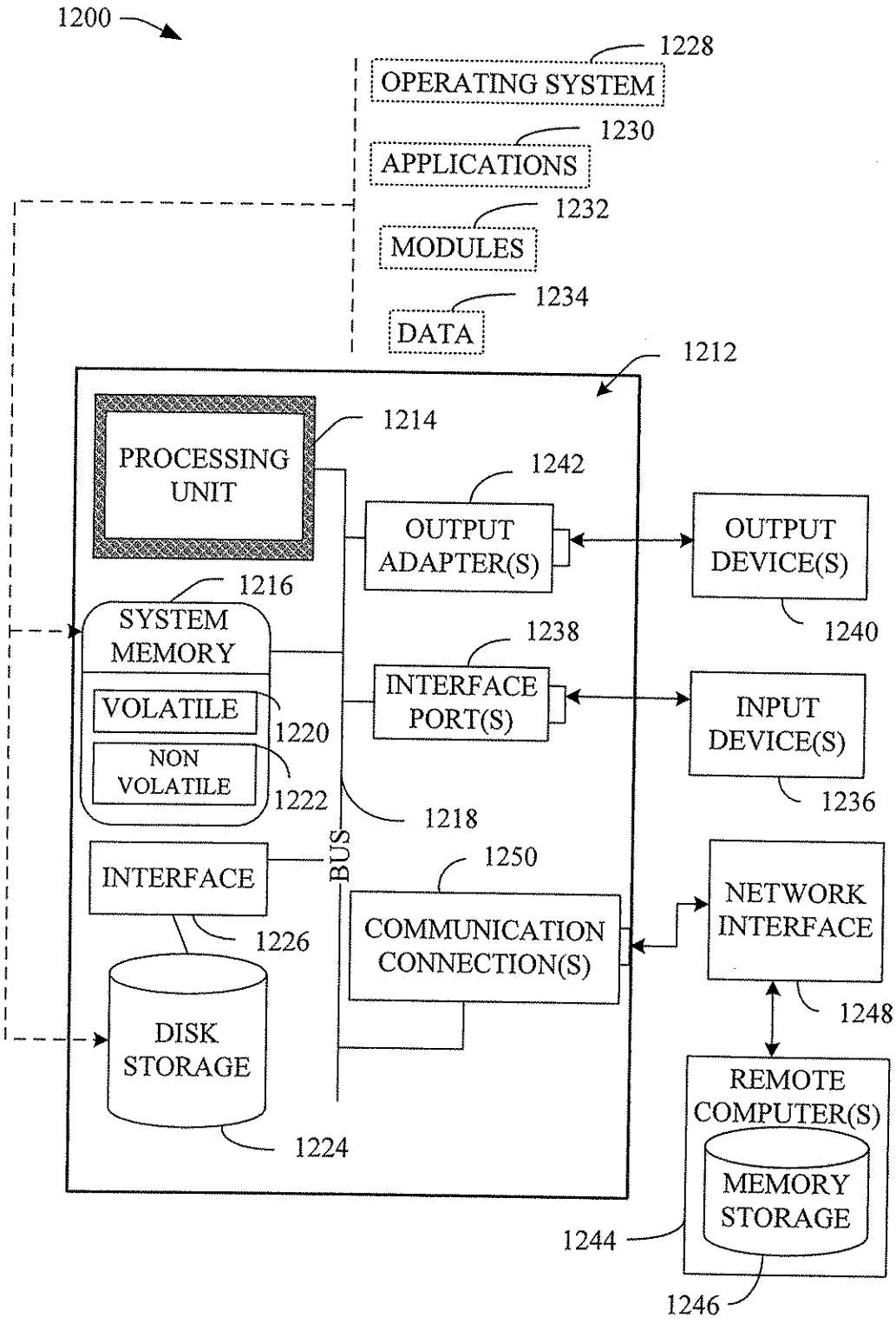

1200
1228
OPERATING SYSTEM
1230
APPLICATIONS
1232
MODULES
1234
DATA
1212
1214
PROCESSING UNIT
1242
OUTPUT ADAPTER(S)
OUTPUT DEVICE(S)
1240
1216
SYSTEM MEMORY
VOLATILE
1220
NON VOLATILE
1222
1238
INTERFACE PORT(S)
INPUT DEVICE(S)
1236
1218
BUS
INTERFACE
1226
1250
COMMUNICATION CONNECTION(S)
NETWORK INTERFACE
1248
DISK STORAGE
1224
REMOTE COMPUTER(S)
MEMORY STORAGE
1244
1246

FIG. 12