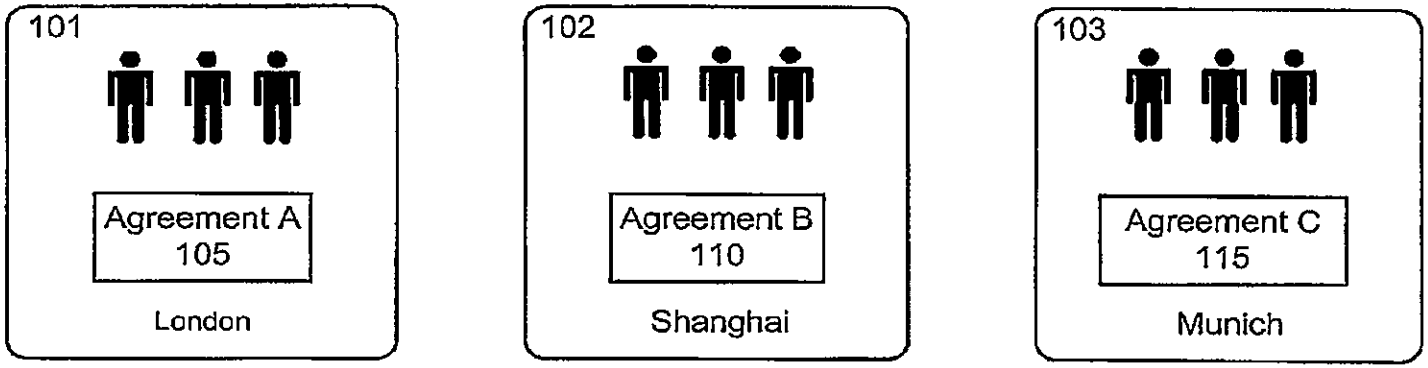

101
Agreement A
105
London
102
Agreement B
110
Shanghai
103
Agreement C
115
Munich

FIG. 1A

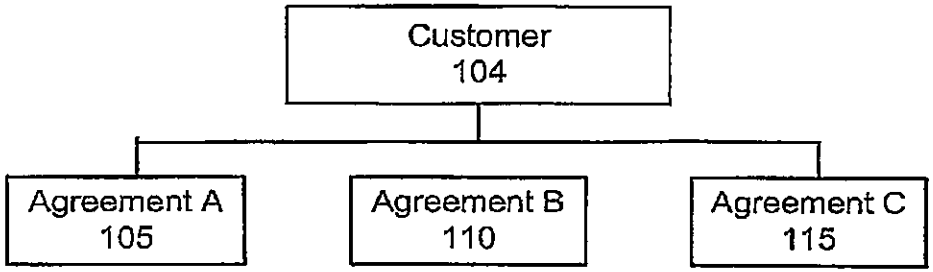

Customer
104
Agreement A
105
Agreement B
110
Agreement C
115

FIG. 1B

FIG. 1C

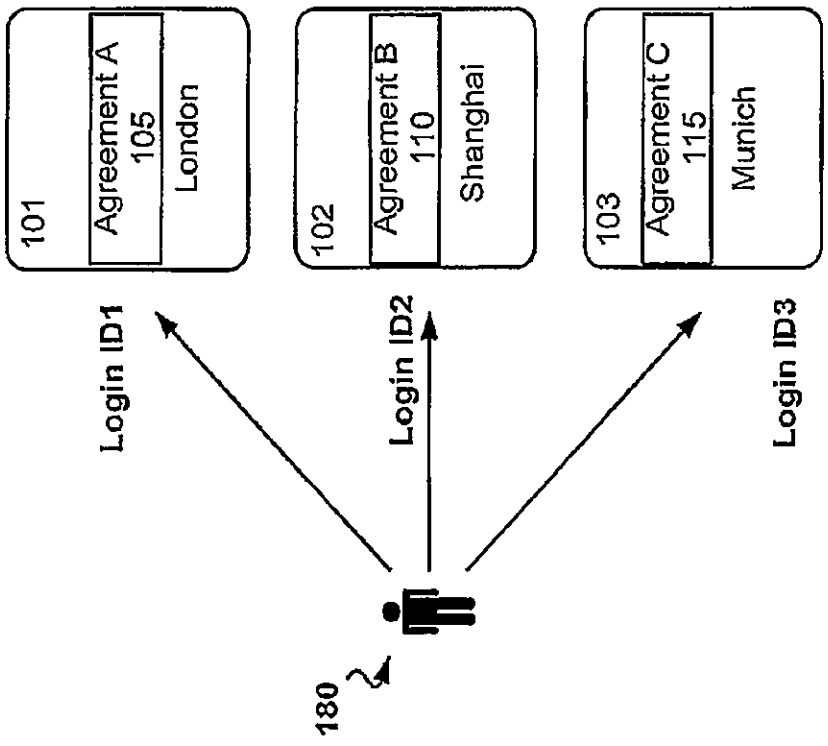
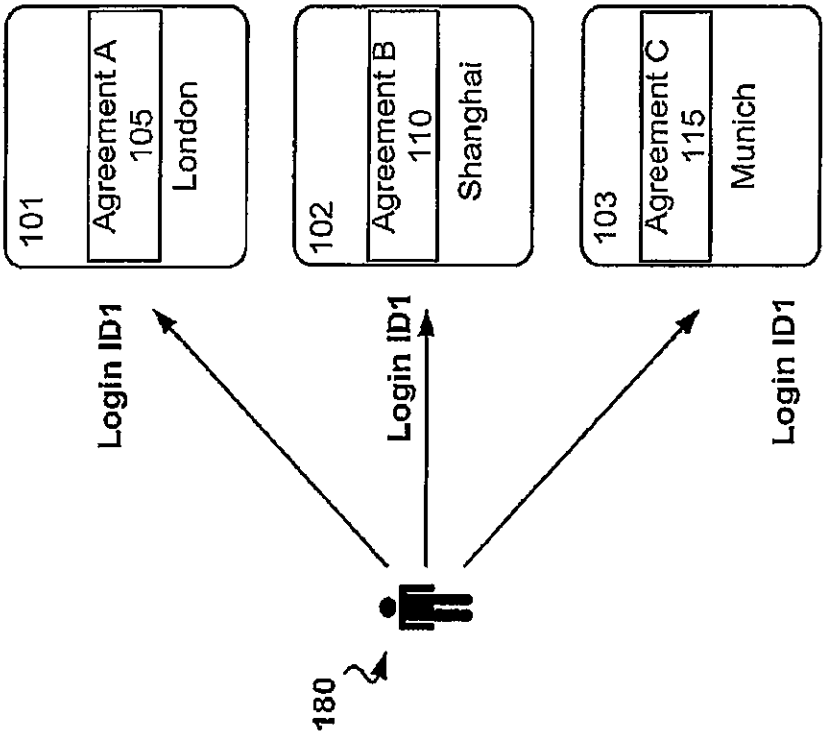

101
Agreement A
105
London
102
Agreement B
110
Shanghai
103
Agreement C
115
Munich
Login ID1
Login ID2
Login ID3
180

FIG. 1D


101
Agreement A
105
London
102
Agreement B
110
Shanghai
103
Agreement C
115
Munich
Login ID1
Login ID1
Login ID1
180

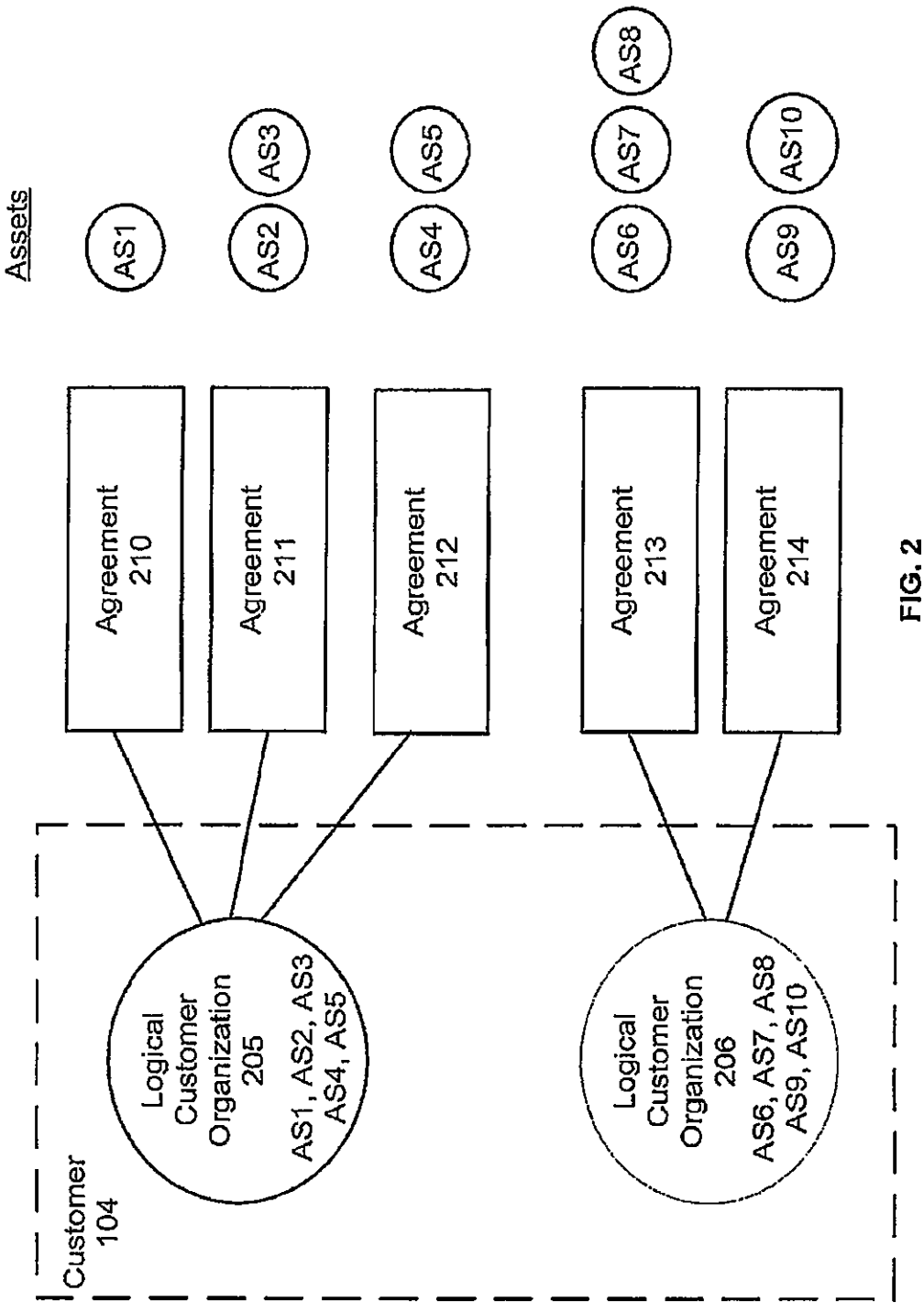

Assets
AS1
AS2
AS3
AS4
AS5
AS6
AS7
AS8
AS9
AS10
Agreement 210
Agreement 211
Agreement 212
Agreement 213
Agreement 214
Logical Customer Organization 205
AS1, AS2, AS3 AS4, AS5
Logical Customer Organization 206
AS6, AS7, AS8 AS9, AS10
Customer 104

FIG. 2

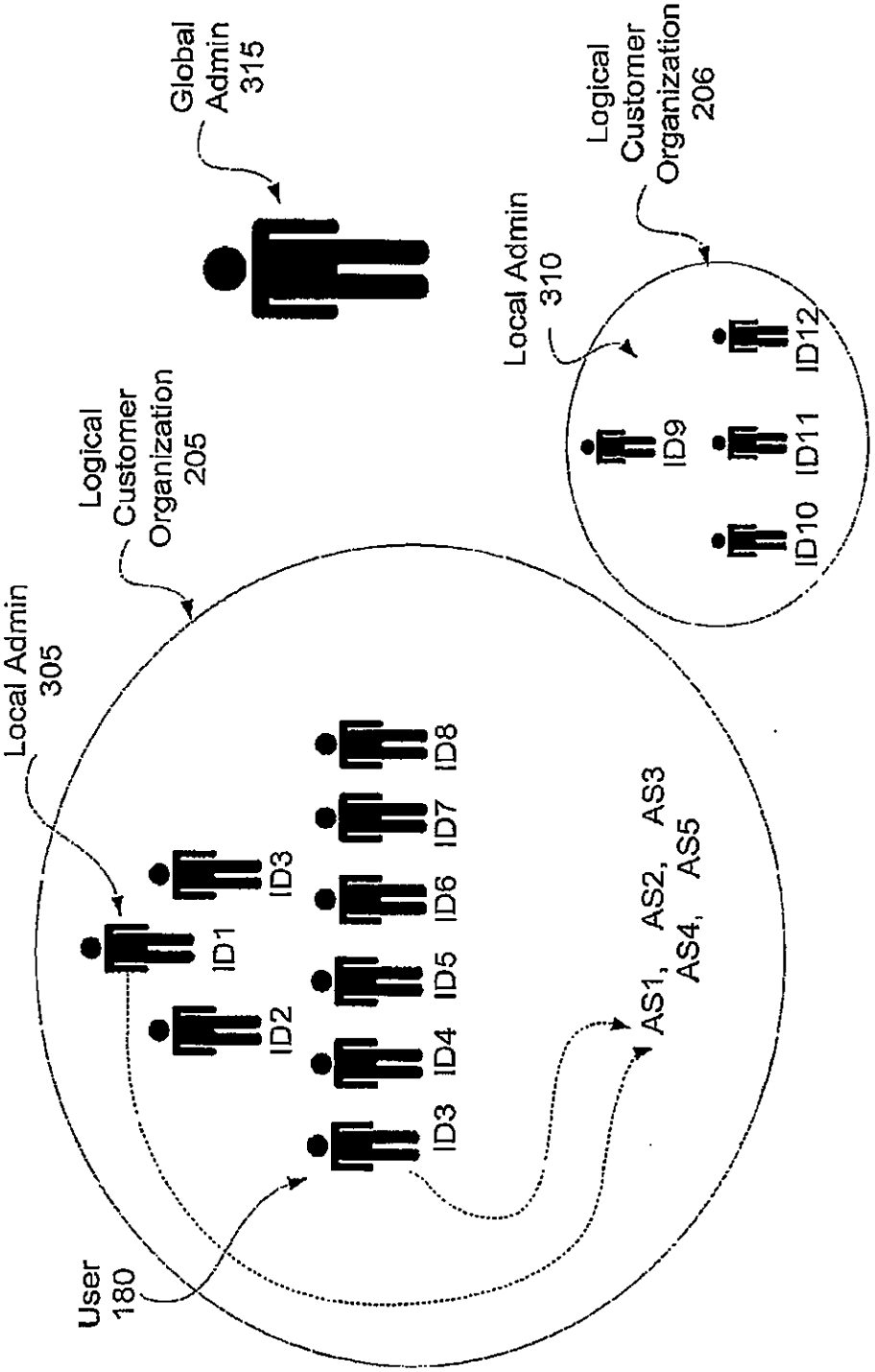

Global Admin 315
Logical Customer Organization 206
Local Admin 310
ID9
ID10
ID11
ID12
Logical Customer Organization 205
Local Admin 305
ID1
ID2
ID3
ID3
ID4
ID5
ID6
ID7
ID8
AS1, AS2, AS3
AS4, AS5
User 180

FIG. 3

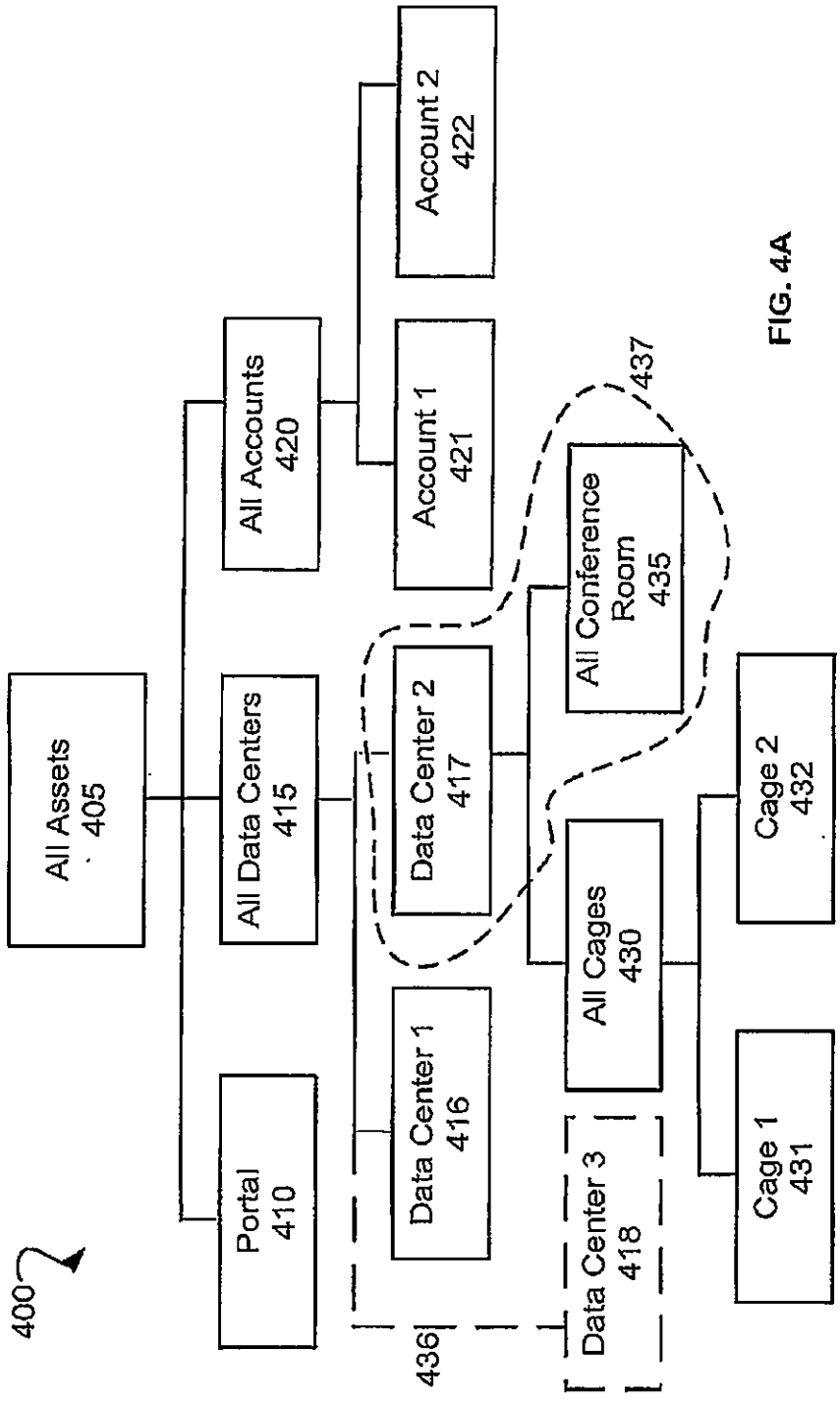

400
All Assets
405
All Data Centers
415
All Accounts
420
Account 2
422
Account 1
421
Portal
410
Data Center 1
416
Data Center 2
417
All Conference
Room
435
437
All Cages
430
Cage 2
432
Cage 1
431
436
Data Center 3
418

FIG. 4A

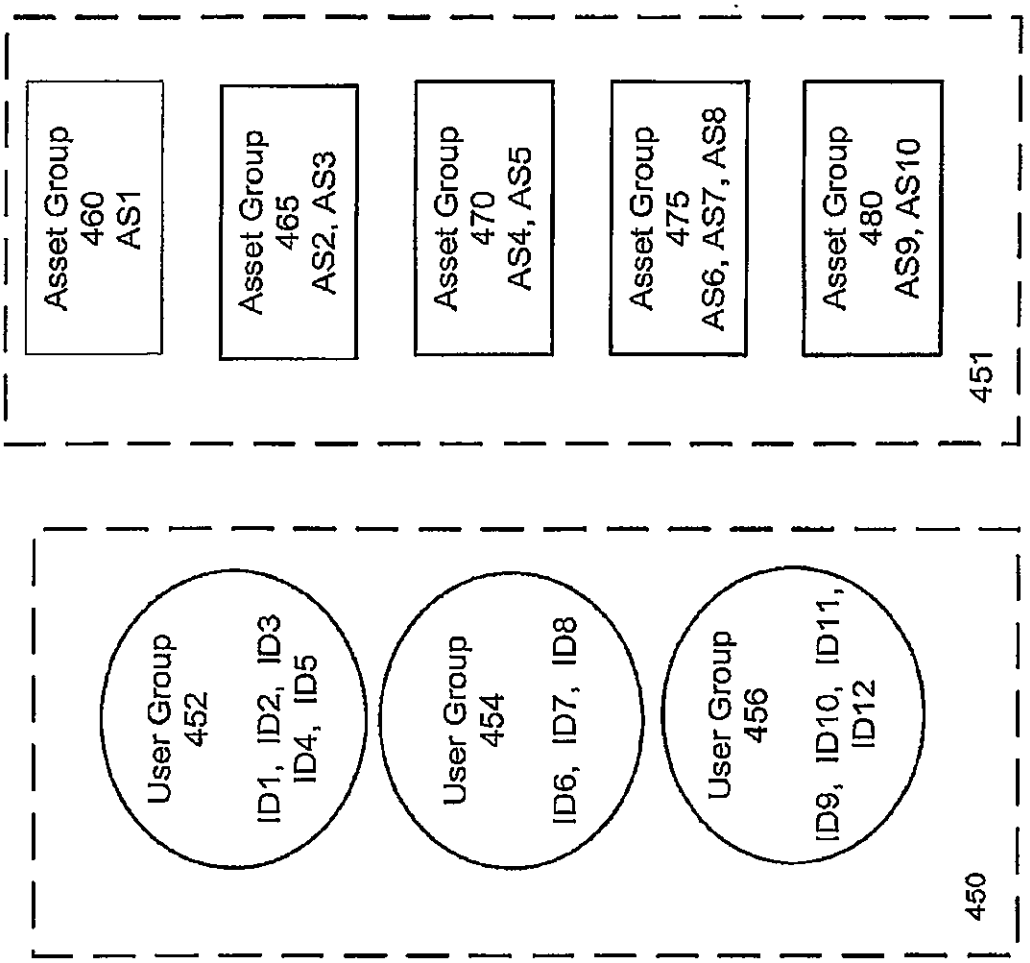

Asset Group
460
AS1
Asset Group
465
AS2, AS3
Asset Group
470
AS4, AS5
Asset Group
475
AS6, AS7, AS8
Asset Group
480
AS9, AS10
451
User Group
452
ID1, ID2, ID3
ID4, ID5
User Group
454
ID6, ID7, ID8
User Group
456
ID9, ID10, ID11,
ID12
450

FIG. 4C

FIG. 4B

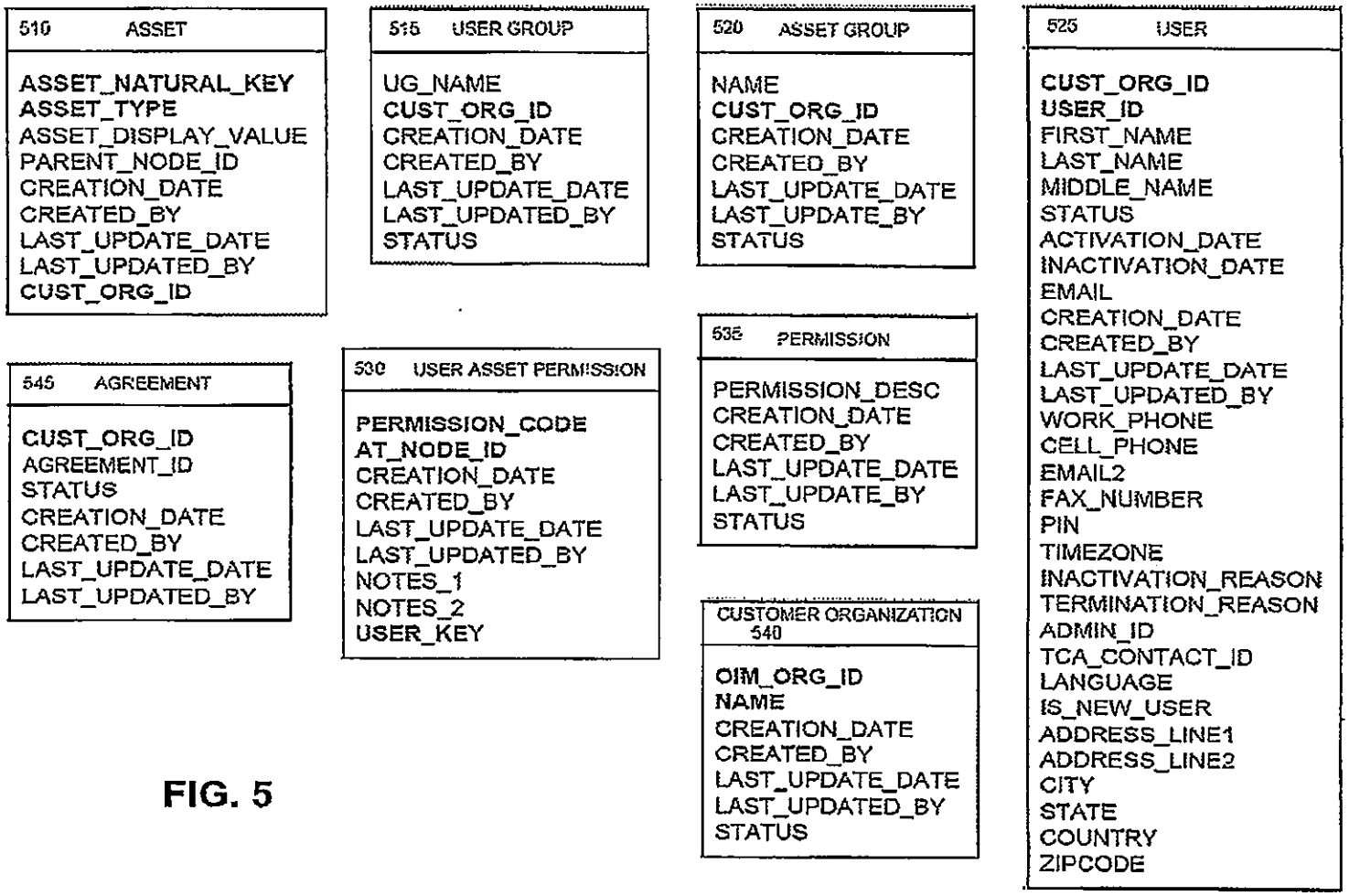

510 ASSET
ASSET_NATURAL_KEY
ASSET_TYPE
ASSET_DISPLAY_VALUE
PARENT_NODE_ID
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
CUST_ORG_ID
515 USER GROUP
UG_NAME
CUST_ORG_ID
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
STATUS
520 ASSET GROUP
NAME
CUST_ORG_ID
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATE_BY
STATUS
525 USER
CUST_ORG_ID
USER_ID
FIRST_NAME
LAST_NAME
MIDDLE_NAME
STATUS
ACTIVATION_DATE
INACTIVATION_DATE
EMAIL
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
WORK_PHONE
CELL_PHONE
EMAIL2
FAX_NUMBER
PIN
TIMEZONE
INACTIVATION_REASON
TERMINATION_REASON
ADMIN_ID
TCA_CONTACT_ID
LANGUAGE
IS_NEW_USER
ADDRESS_LINE1
ADDRESS_LINE2
CITY
STATE
COUNTRY
ZIPCODE
545 AGREEMENT
CUST_ORG_ID
AGREEMENT_ID
STATUS
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
530 USER ASSET PERMISSION
PERMISSION_CODE
AT_NODE_ID
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
NOTES_1
NOTES_2
USER_KEY
535 PERMISSION
PERMISSION_DESC
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATE_BY
STATUS
CUSTOMER ORGANIZATION 540
OIM_ORG_ID
NAME
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATED_BY
STATUS

FIG. 5

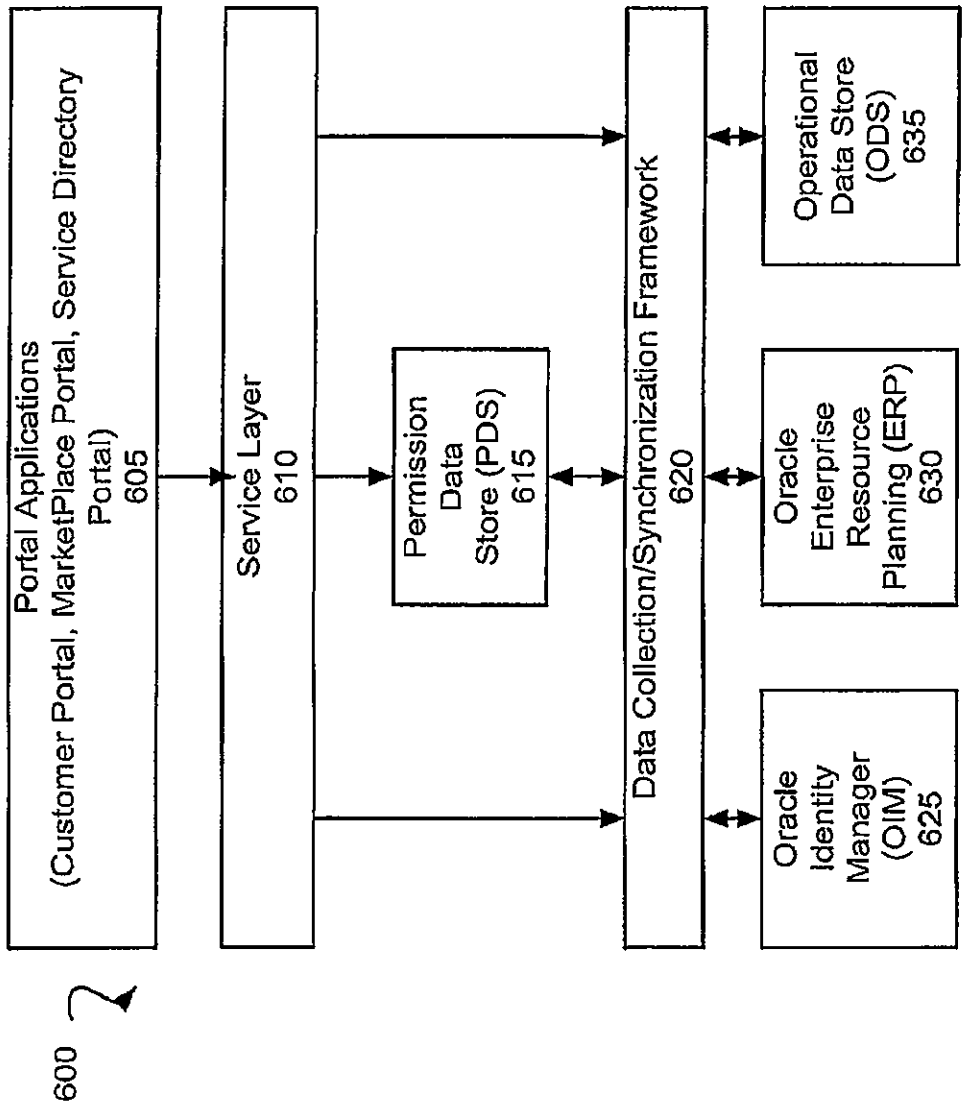

600
Portal Applications
(Customer Portal, MarketPlace Portal, Service Directory Portal)
605
Service Layer
610
Permission Data Store (PDS)
615
Data Collection/Synchronization Framework
620
Oracle Identity Manager (OIM)
625
Oracle Enterprise Resource Planning (ERP)
630
Operational Data Store (ODS)
635

FIG. 6A

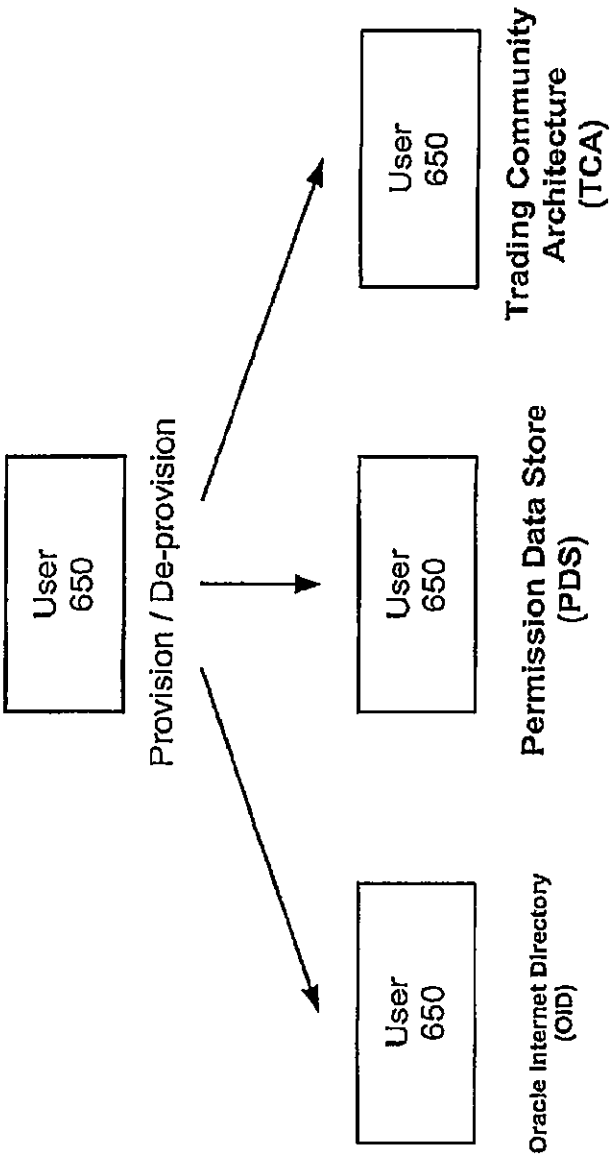

User
650
Provision / De-provision
User
650
User
650
User
650
Oracle Internet Directory
(OID)
Permission Data Store
(PDS)
Trading Community
Architecture
(TCA)

FIG. 6B

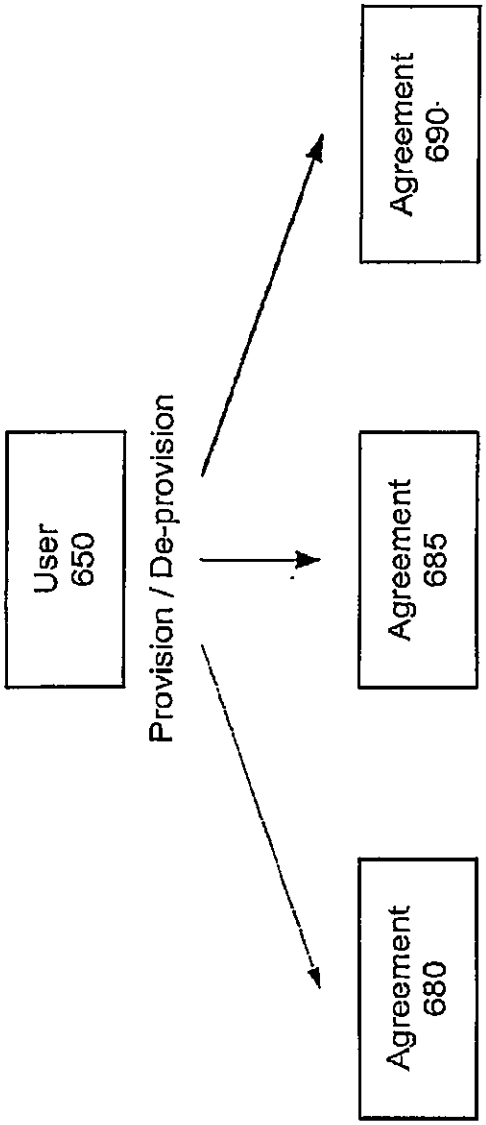

User
650
Provision / De-provision
Agreement
680
Agreement
685
Agreement
690

FIG. 6C

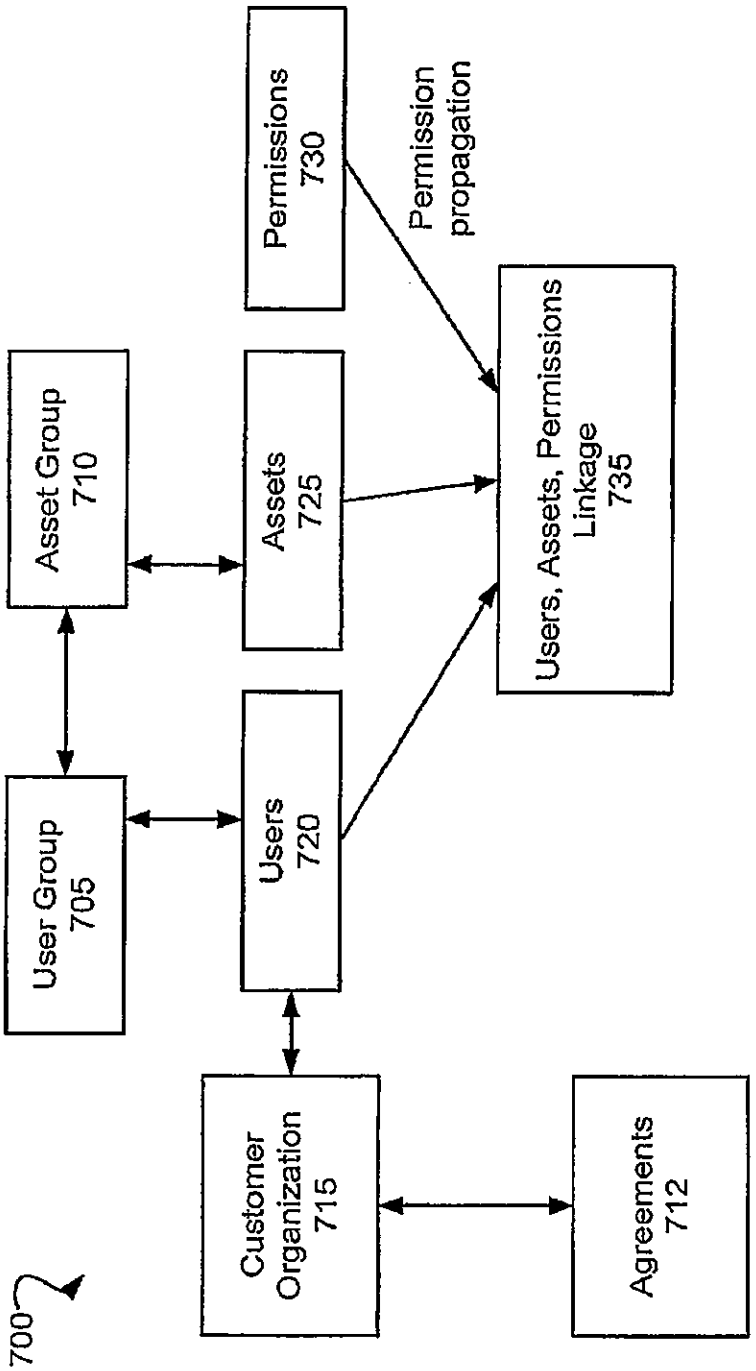

700
Customer Organization 715
Agreements 712
User Group 705
Users 720
Asset Group 710
Assets 725
Permissions 730
Permission propagation
Users, Assets, Permissions Linkage 735

FIG. 7A

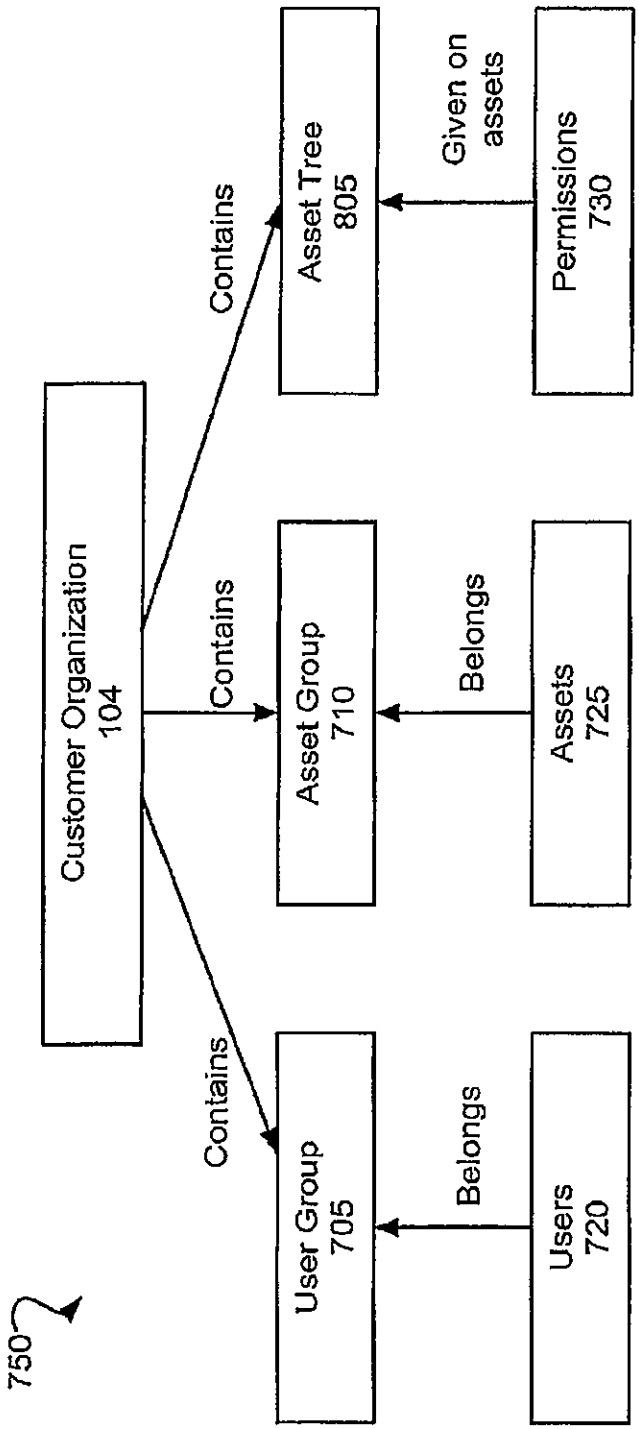

750
Customer Organization
104
Contains
Contains
Contains
Asset Tree
805
Asset Group
710
User Group
705
Given on
assets
Belongs
Belongs
Permissions
730
Assets
725
Users
720

FIG. 7B

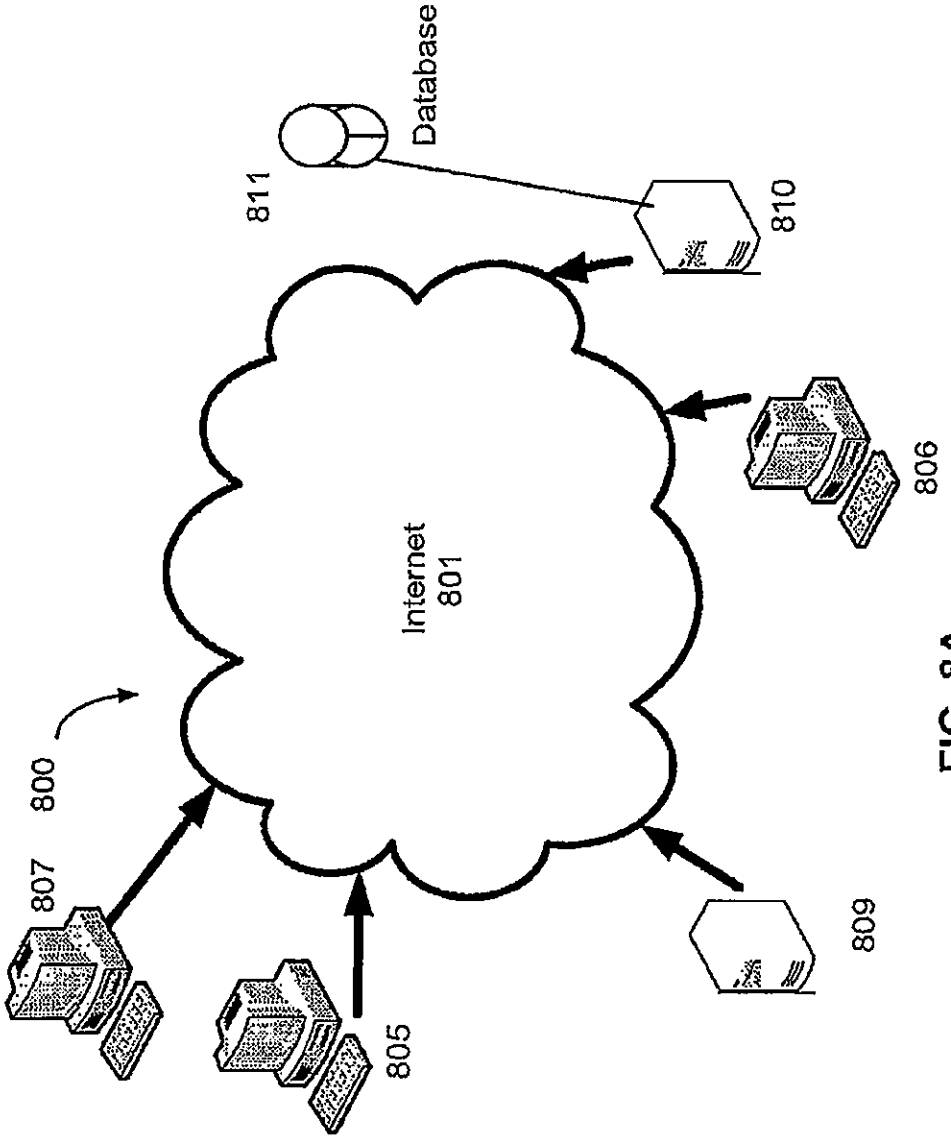


FIG. 8A

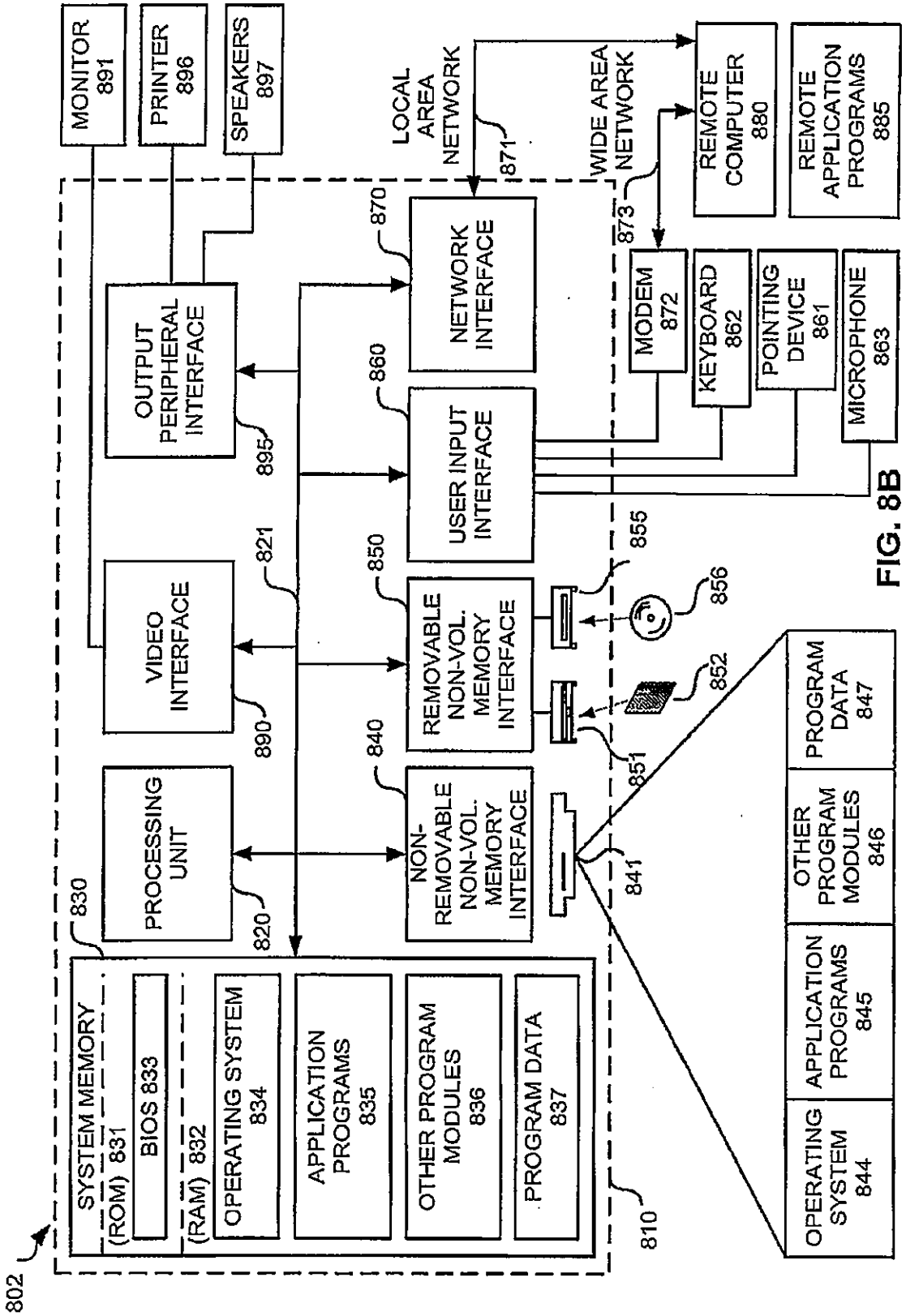

802
MONITOR 891
PRINTER 896
SPEAKERS 897
LOCAL AREA NETWORK
871
WIDE AREA NETWORK
873
REMOTE COMPUTER 880
REMOTE APPLICATION PROGRAMS 885
870
NETWORK INTERFACE
MODEM 872
KEYBOARD 862
POINTING DEVICE 861
MICROPHONE 863
OUTPUT PERIPHERAL INTERFACE
895
860
USER INPUT INTERFACE
VIDEO INTERFACE
890
821
850
REMOVABLE NON-VOL. MEMORY INTERFACE
855
856
852
851
PROCESSING UNIT
820
840
NON-REMOVABLE NON-VOL. MEMORY INTERFACE
841
830
SYSTEM MEMORY
(ROM) 831
BIOS 833
(RAM) 832
OPERATING SYSTEM 834
APPLICATION PROGRAMS 835
OTHER PROGRAM MODULES 836
PROGRAM DATA 837
810
OPERATING SYSTEM 844
APPLICATION PROGRAMS 845
OTHER PROGRAM MODULES 846
PROGRAM DATA 847

FIG. 8B

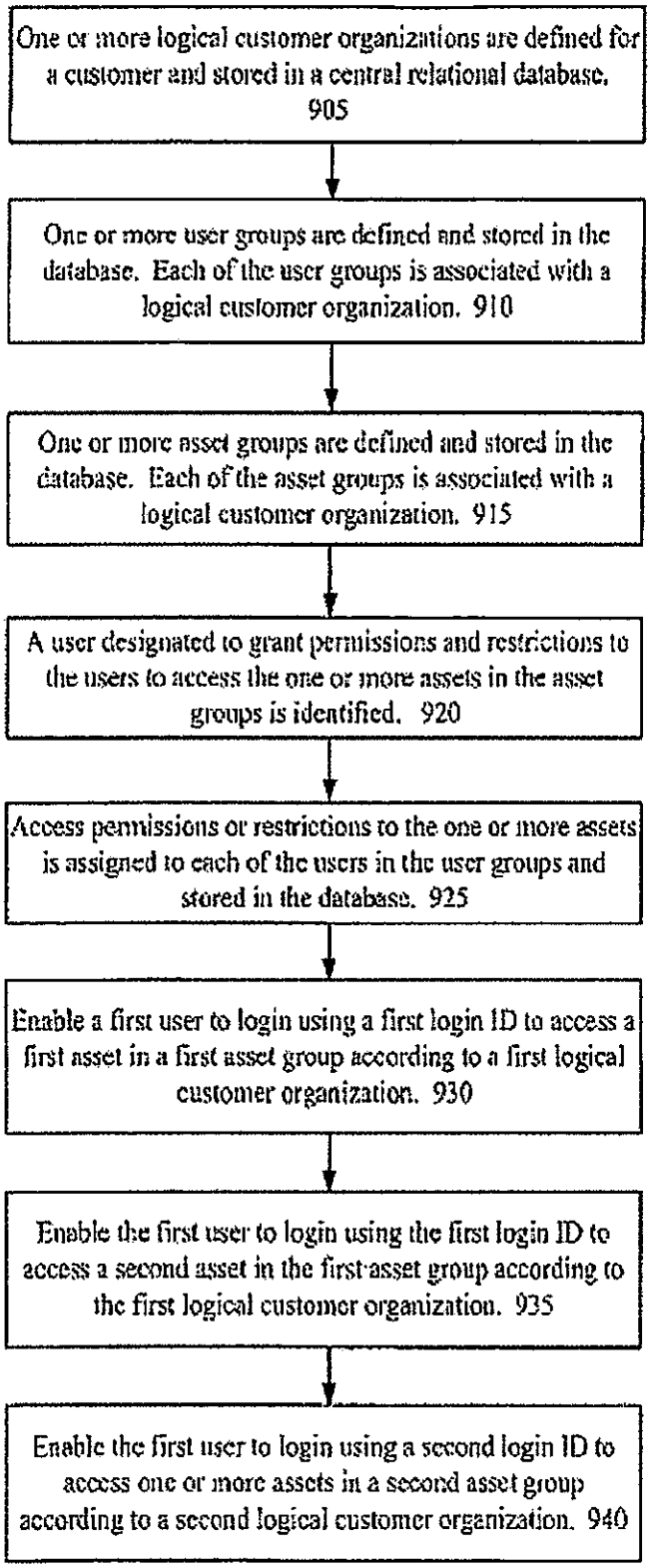

One or more logical customer organizations are defined for a customer and stored in a central relational database. 905
One or more user groups are defined and stored in the database. Each of the user groups is associated with a logical customer organization. 910
One or more asset groups are defined and stored in the database. Each of the asset groups is associated with a logical customer organization. 915
A user designated to grant permissions and restrictions to the users to access the one or more assets in the asset groups is identified. 920
Access permissions or restrictions to the one or more assets is assigned to each of the users in the user groups and stored in the database. 925
Enable a first user to login using a first login ID to access a first asset in a first asset group according to a first logical customer organization. 930
Enable the first user to login using the first login ID to access a second asset in the first asset group according to the first logical customer organization. 935
Enable the first user to login using a second login ID to access one or more assets in a second asset group according to a second logical customer organization. 940

FIG. 9