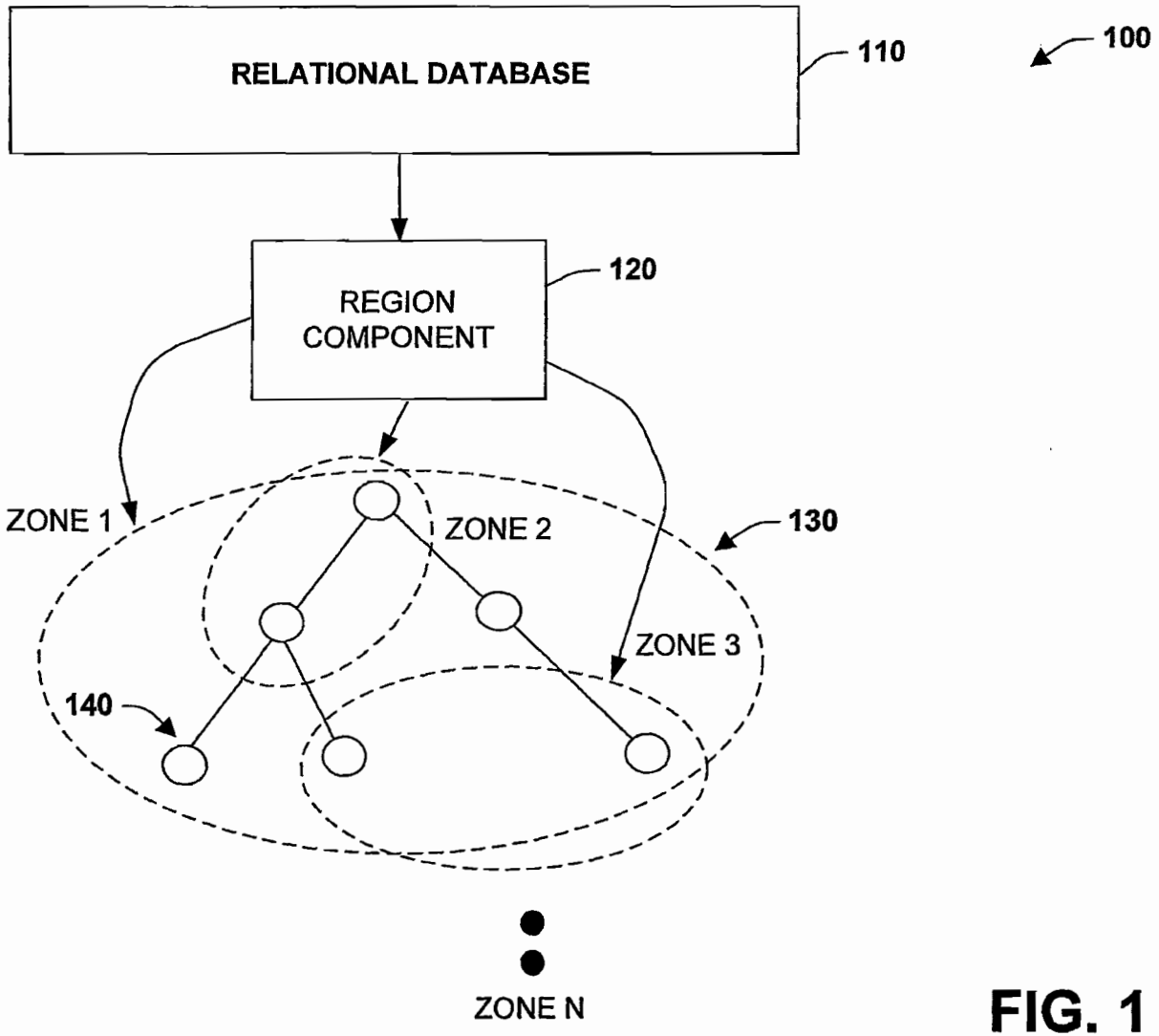

RELATIONAL DATABASE
110
100
REGION COMPONENT
120
ZONE 1
ZONE 2
130
ZONE 3
140
ZONE N

FIG. 1

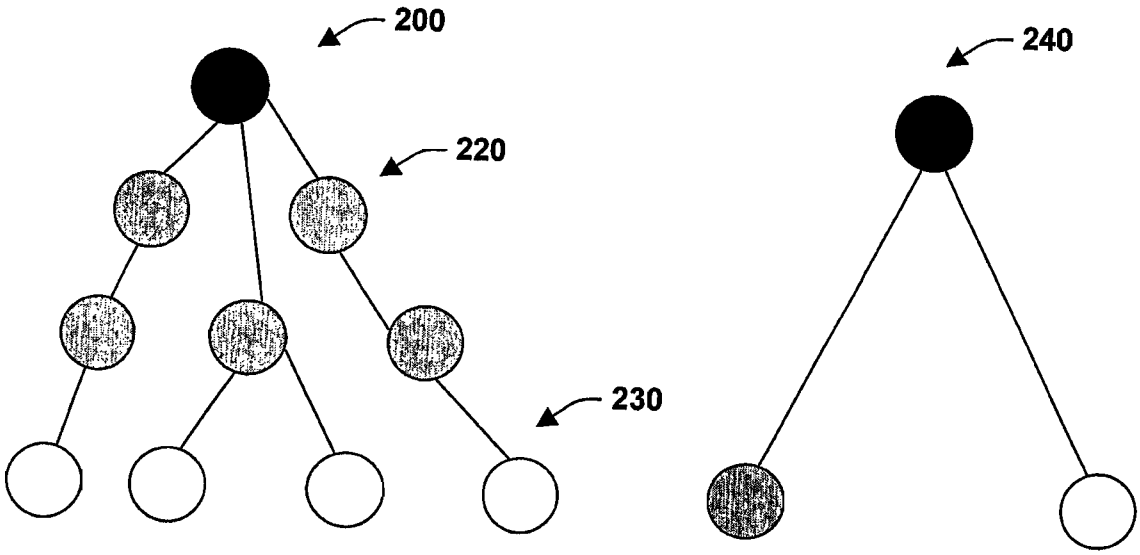


FIG. 2

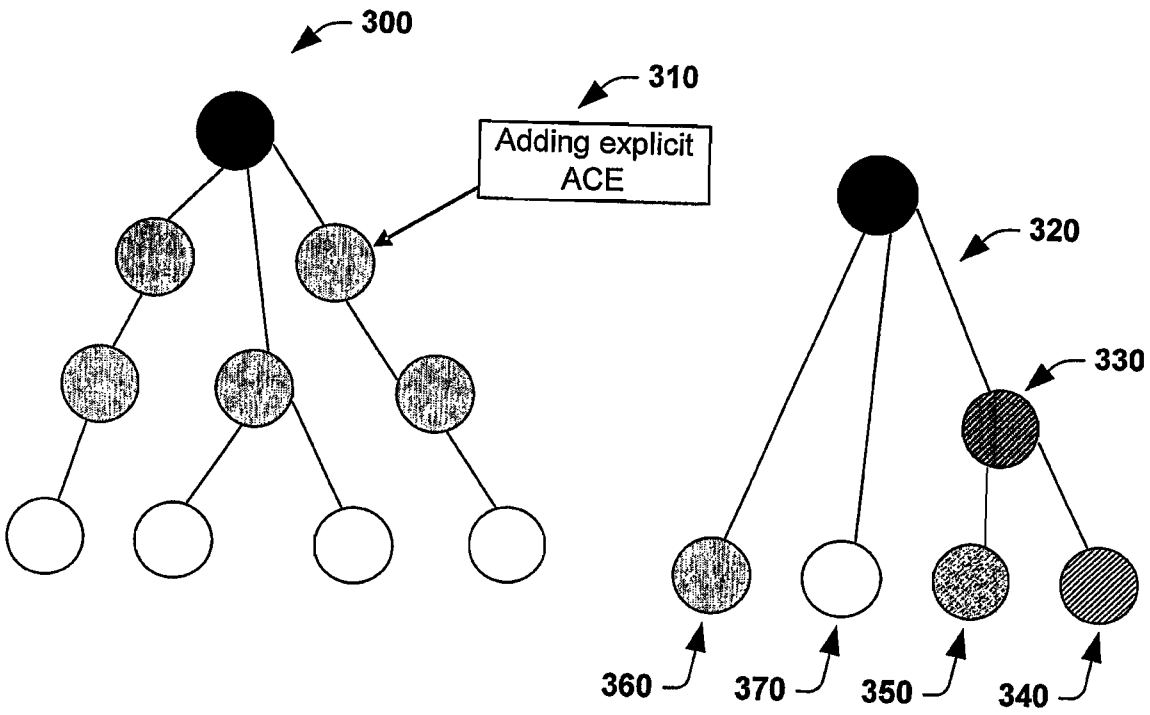


FIG. 3

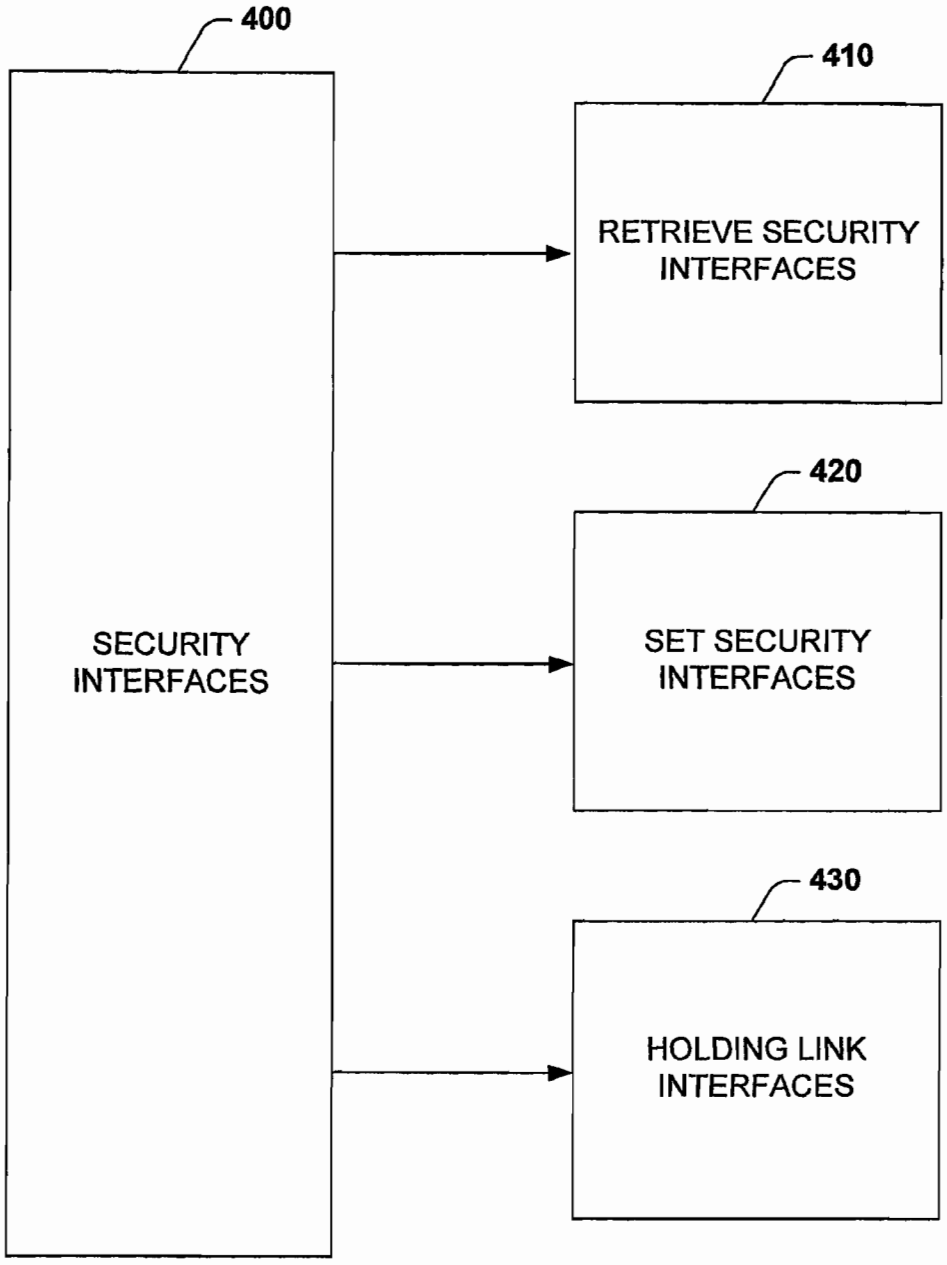

400
SECURITY INTERFACES
410
RETRIEVE SECURITY INTERFACES
420
SET SECURITY INTERFACES
430
HOLDING LINK INTERFACES

FIG. 4

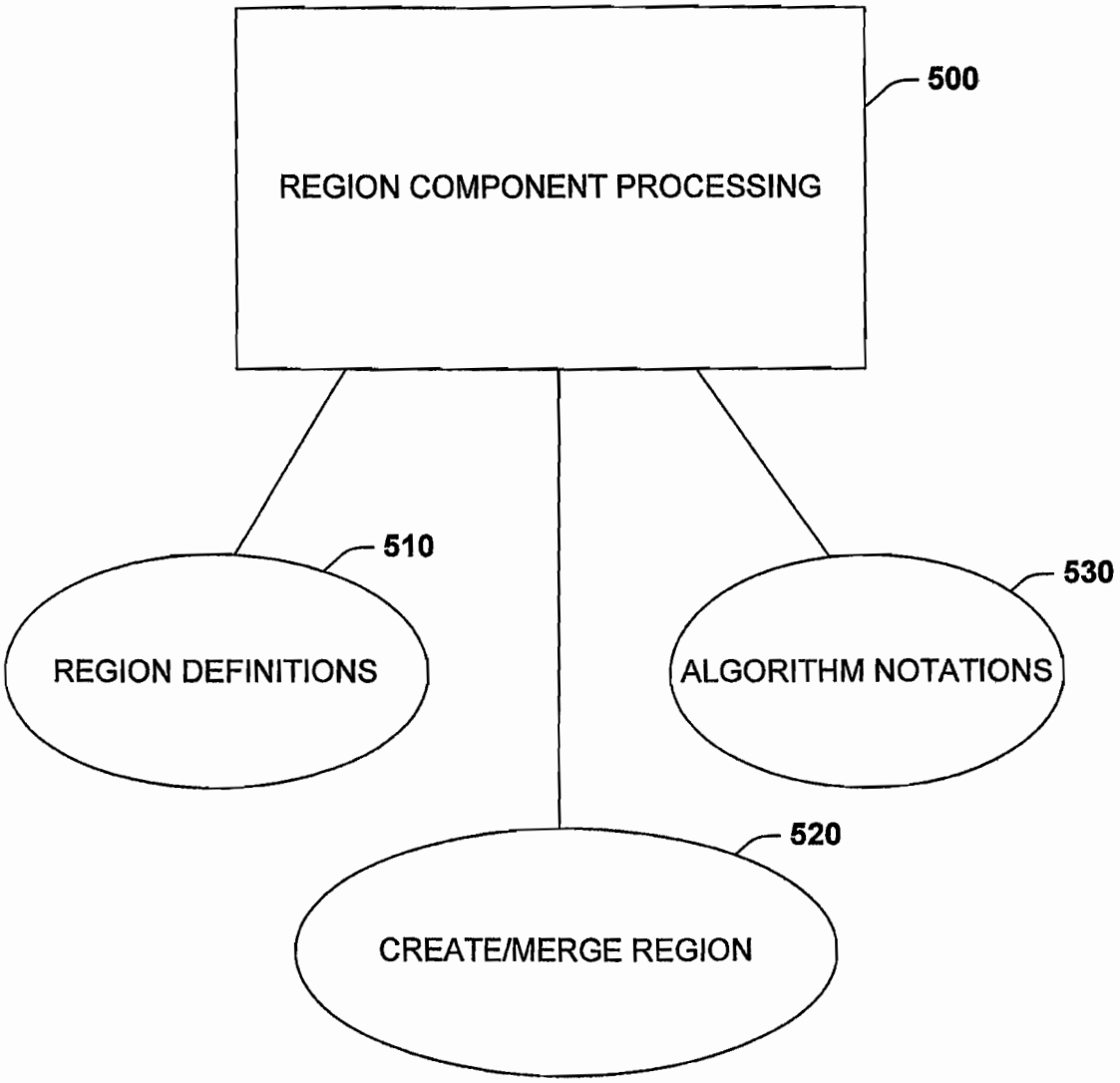

REGION COMPONENT PROCESSING
500
REGION DEFINITIONS
510
ALGORITHM NOTATIONS
530
CREATE/MERGE REGION
520

FIG. 5

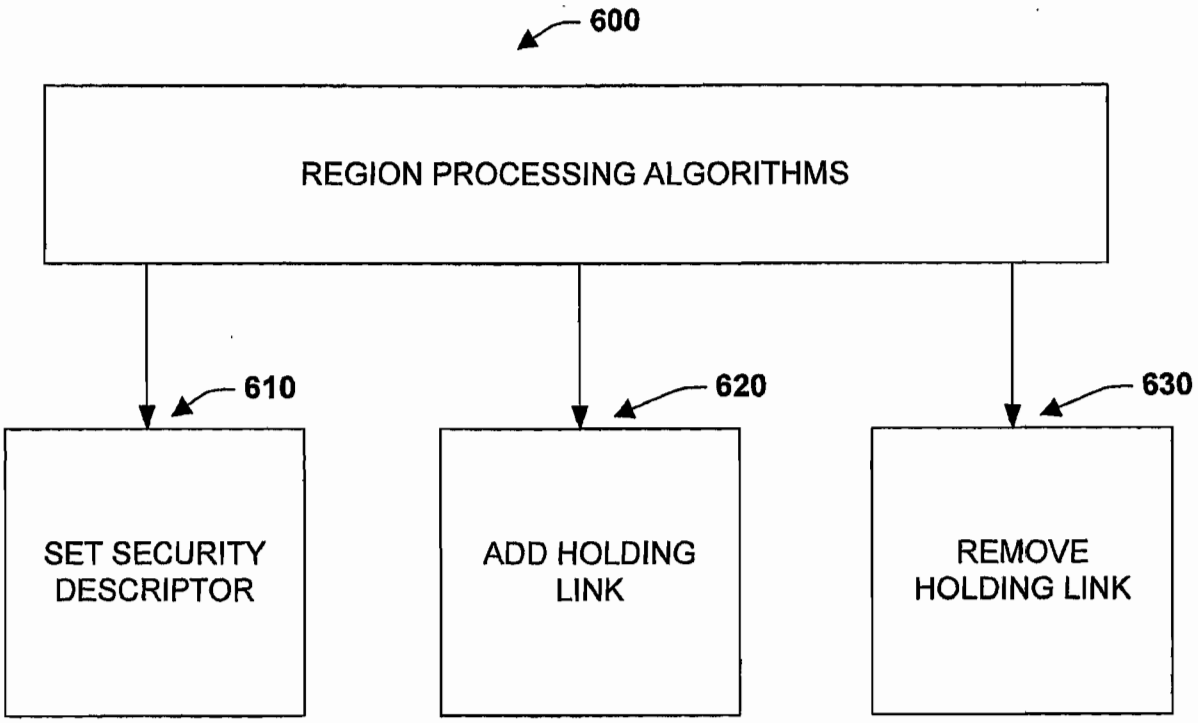

600
REGION PROCESSING ALGORITHMS
610
620
630
SET SECURITY DESCRIPTOR
ADD HOLDING LINK
REMOVE HOLDING LINK

FIG. 6

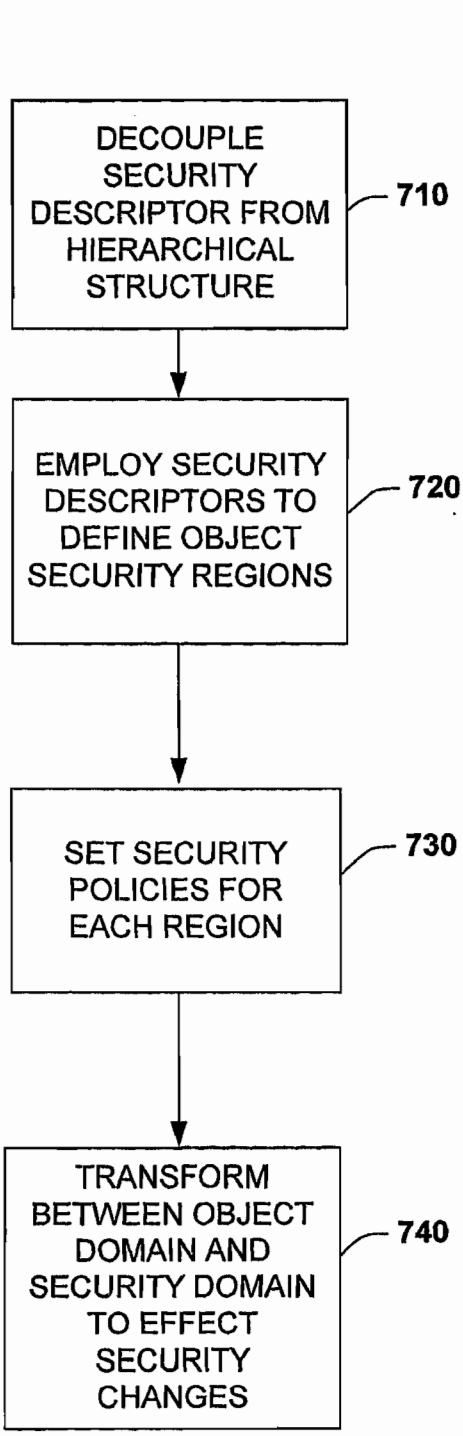

700
DECOUPLE SECURITY DESCRIPTOR FROM HIERARCHICAL STRUCTURE
710
EMPLOY SECURITY DESCRIPTORS TO DEFINE OBJECT SECURITY REGIONS
720
SET SECURITY POLICIES FOR EACH REGION
730
TRANSFORM BETWEEN OBJECT DOMAIN AND SECURITY DOMAIN TO EFFECT SECURITY CHANGES
740

FIG. 7

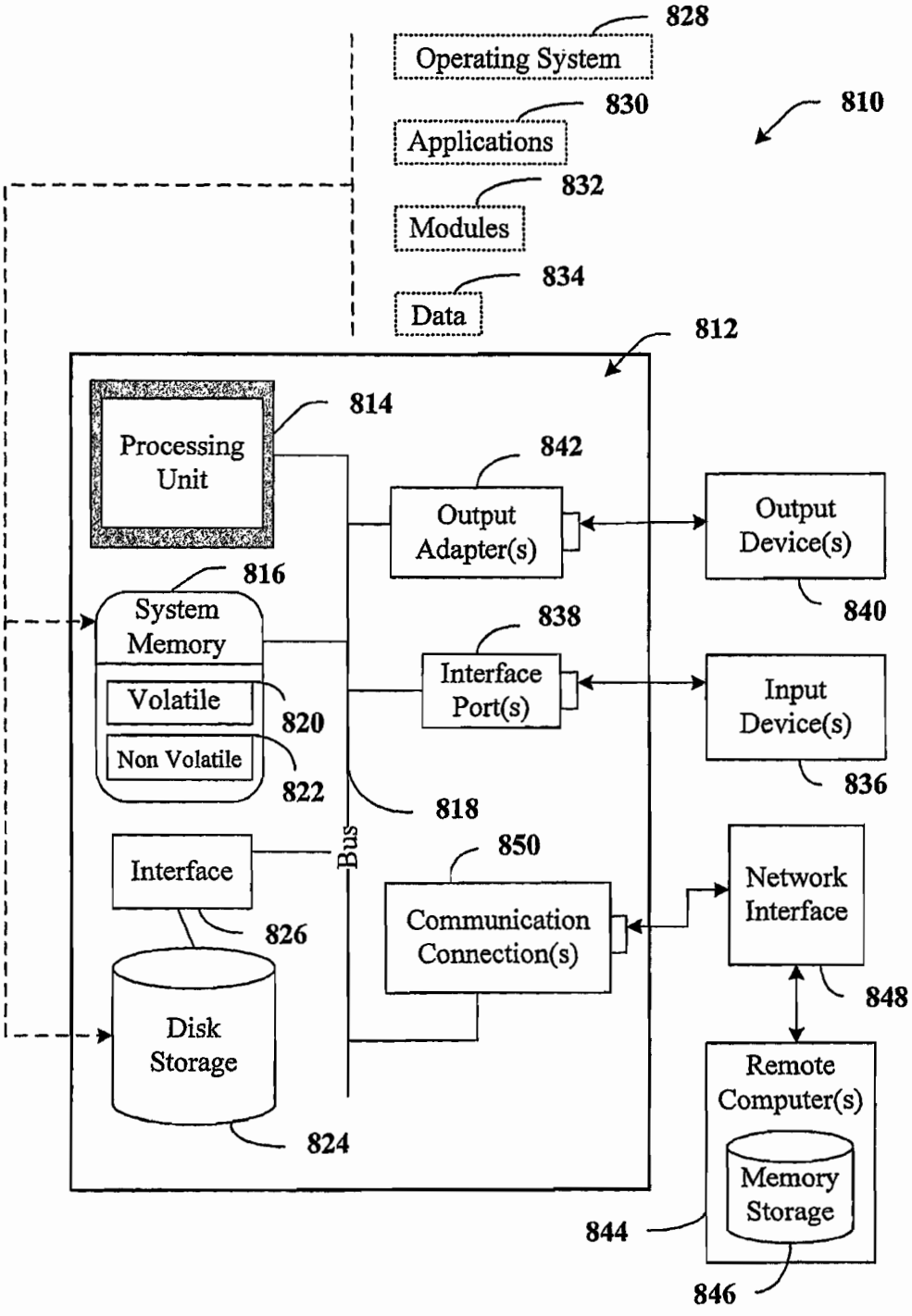

828
Operating System
830
Applications
810
832
Modules
834
Data
812
814
Processing Unit
842
Output Adapter(s)
Output Device(s)
840
816
System Memory
838
Interface Port(s)
Input Device(s)
836
Volatile
820
Non Volatile
822
818
Bus
Interface
826
850
Communication Connection(s)
Network Interface
848
Disk Storage
824
Remote Computer(s)
Memory Storage
844
846

FIG. 8

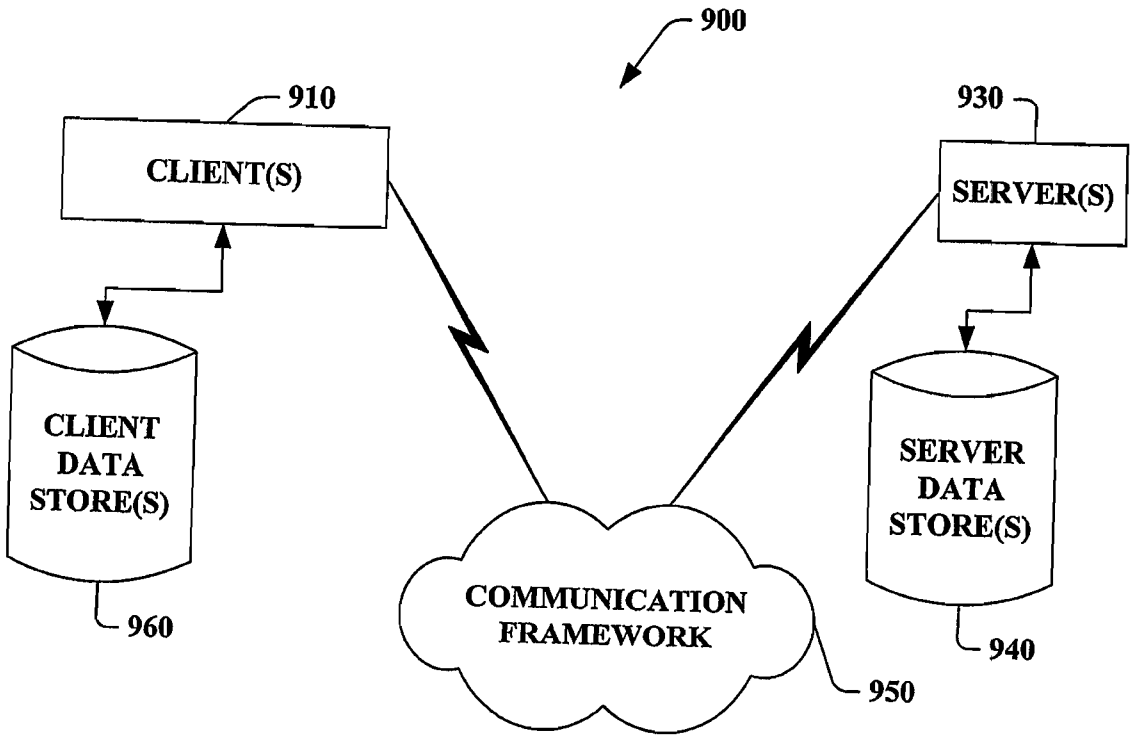

900
910
CLIENT(S)
930
SERVER(S)
CLIENT DATA STORE(S)
960
COMMUNICATION FRAMEWORK
950
SERVER DATA STORE(S)
940

FIG. 9