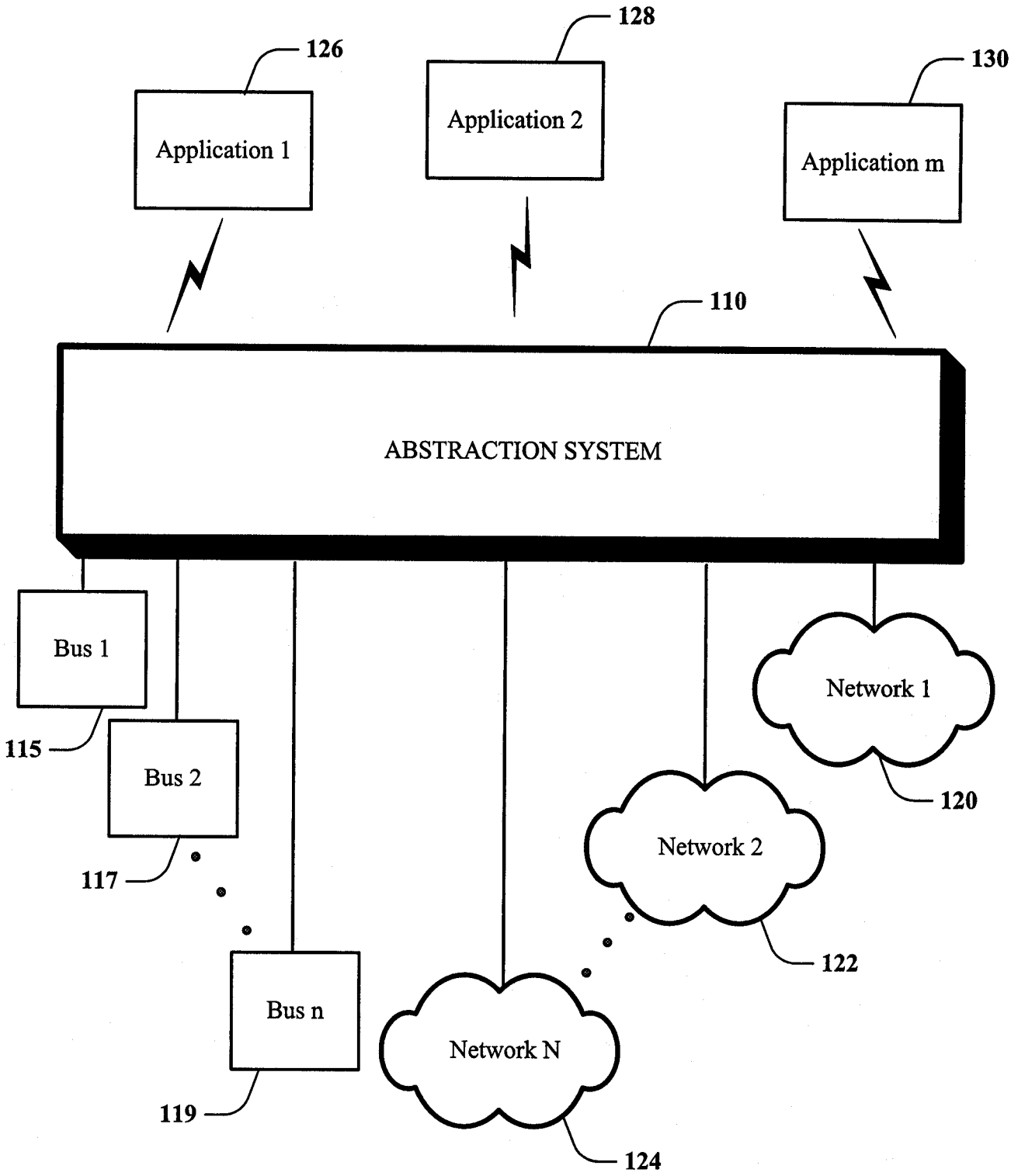

126
128
130
Application 1
Application 2
Application m
110
ABSTRACTION SYSTEM
Bus 1
115
Bus 2
117
Bus n
119
Network 1
120
Network 2
122
Network N
124

Fig. 1

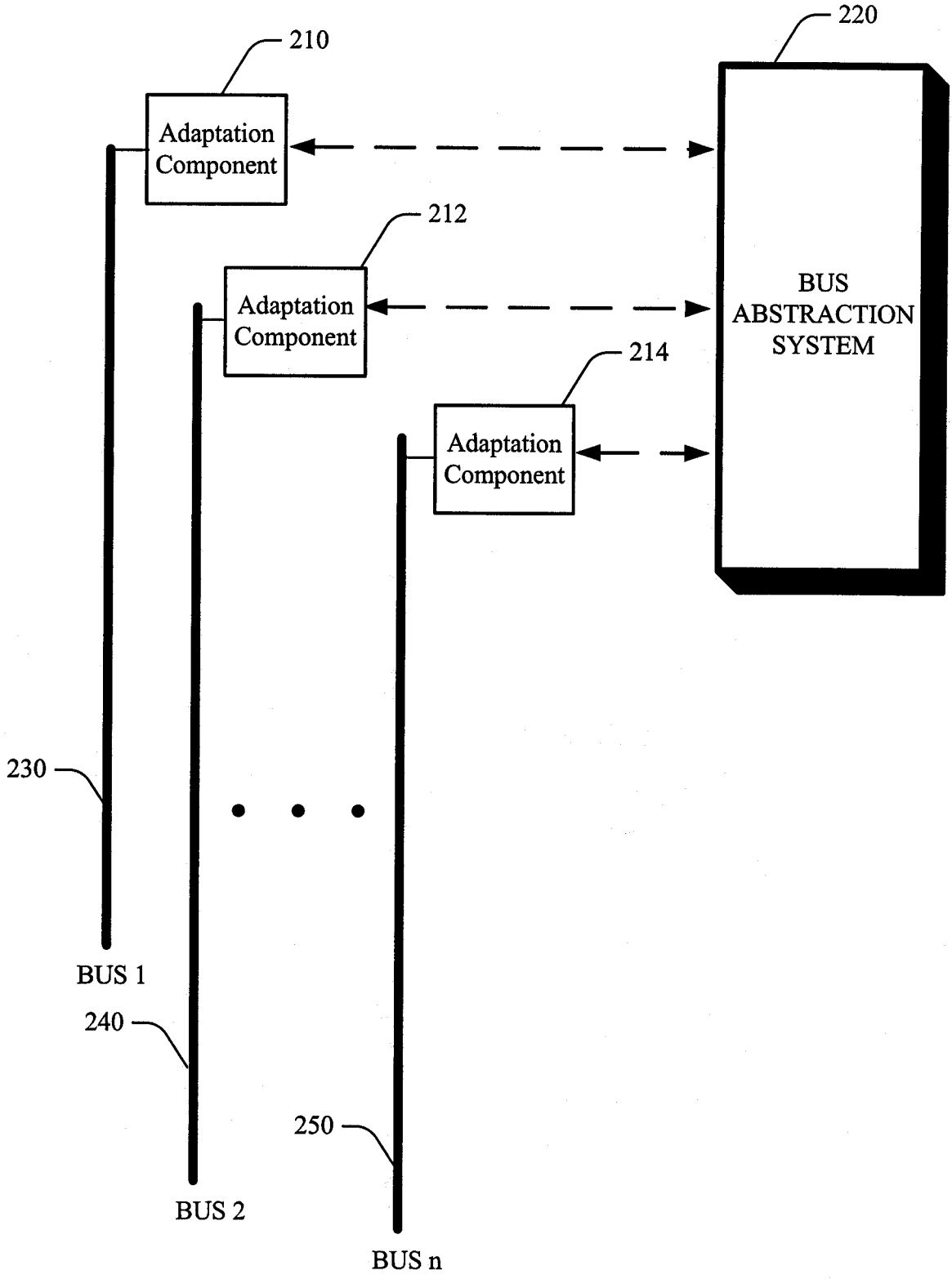

210
Adaptation Component
212
Adaptation Component
214
Adaptation Component
220
BUS ABSTRACTION SYSTEM
230
BUS 1
240
BUS 2
250
BUS n

Fig. 2

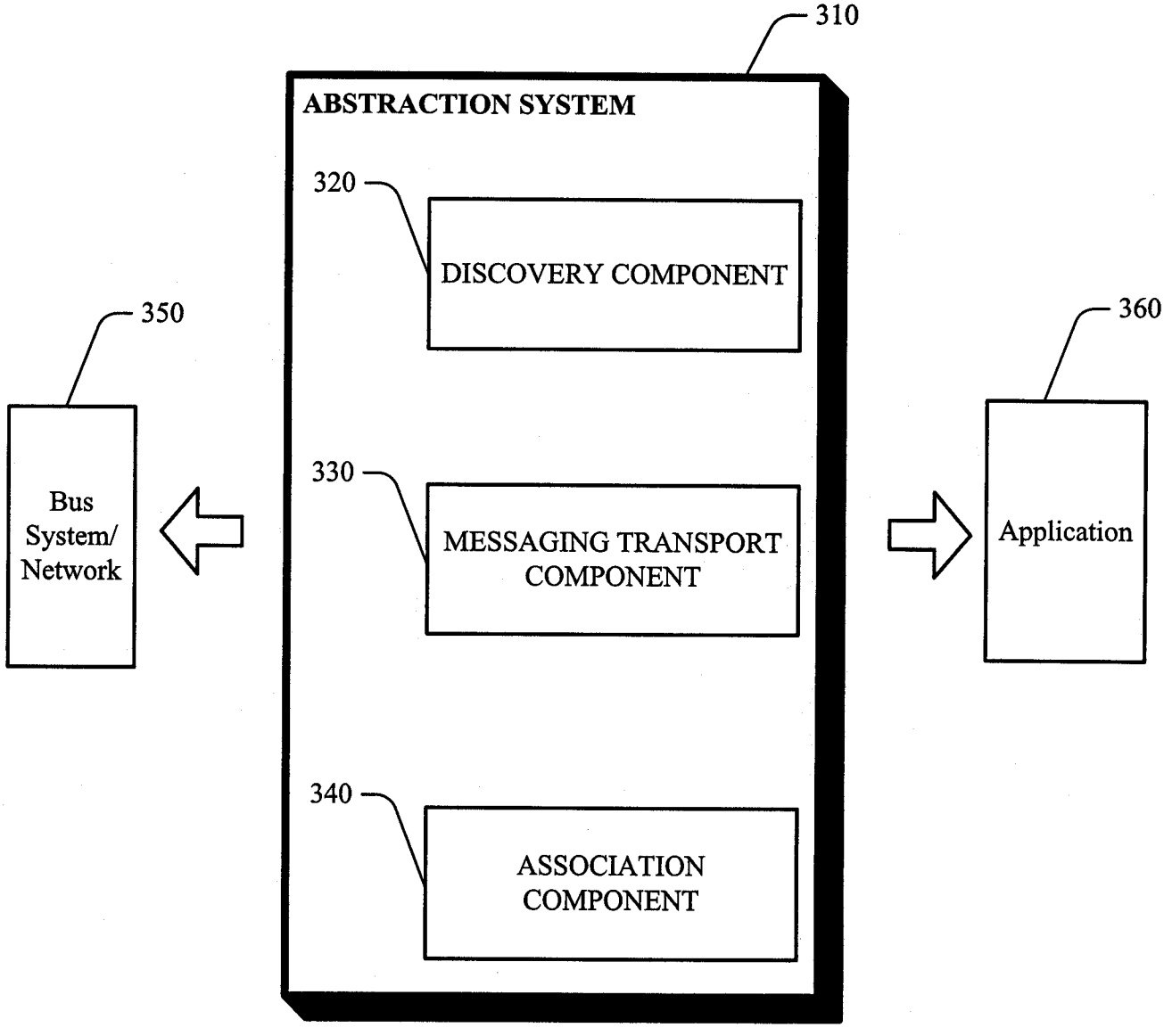

310
ABSTRACTION SYSTEM
320
DISCOVERY COMPONENT
330
MESSAGING TRANSPORT COMPONENT
340
ASSOCIATION COMPONENT
350
Bus System/ Network
360
Application

Fig. 3

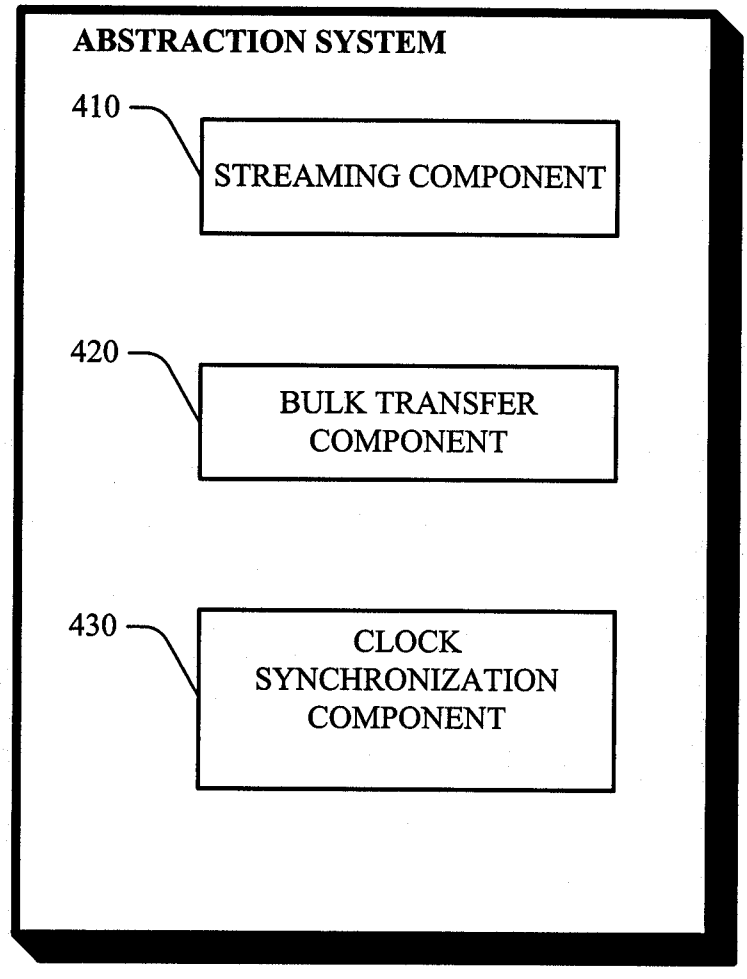

ABSTRACTION SYSTEM
410
STREAMING COMPONENT
420
BULK TRANSFER COMPONENT
430
CLOCK SYNCHRONIZATION COMPONENT

Fig. 4

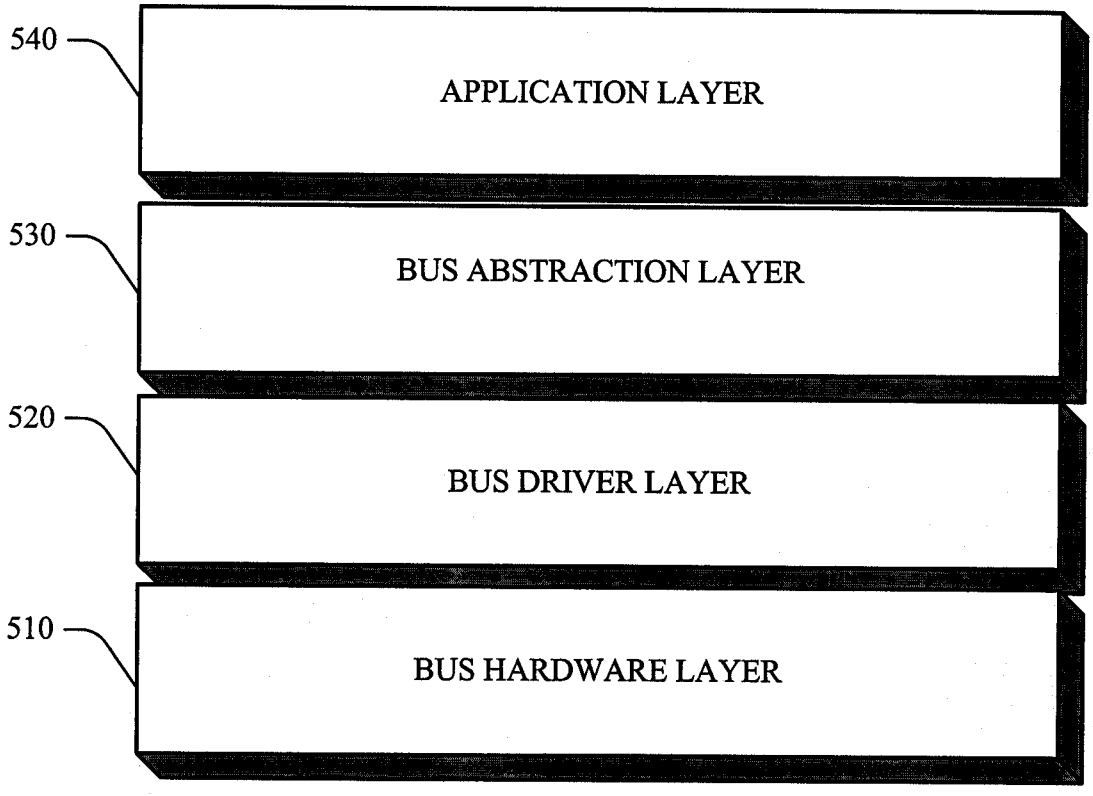

540
APPLICATION LAYER
530
BUS ABSTRACTION LAYER
520
BUS DRIVER LAYER
510
BUS HARDWARE LAYER

Fig. 5

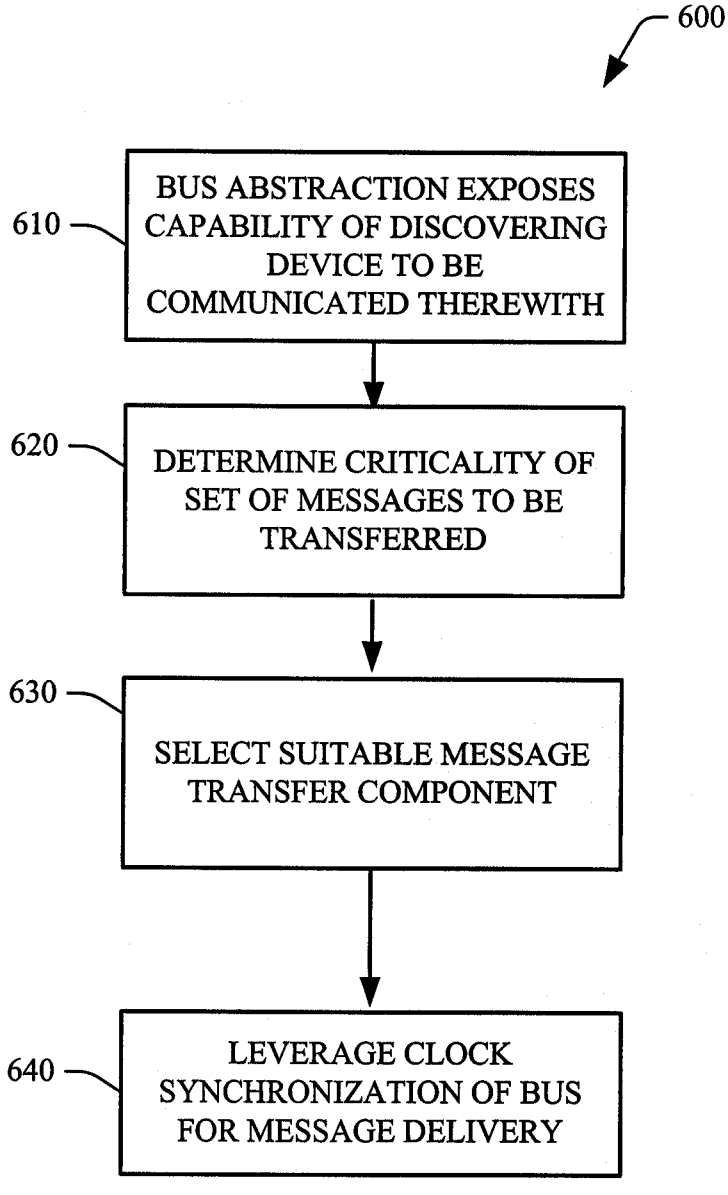

600
610
BUS ABSTRACTION EXPOSES CAPABILITY OF DISCOVERING DEVICE TO BE COMMUNICATED THEREWITH
620
DETERMINE CRITICALITY OF SET OF MESSAGES TO BE TRANSFERRED
630
SELECT SUITABLE MESSAGE TRANSFER COMPONENT
640
LEVERAGE CLOCK SYNCHRONIZATION OF BUS FOR MESSAGE DELIVERY

Fig. 6

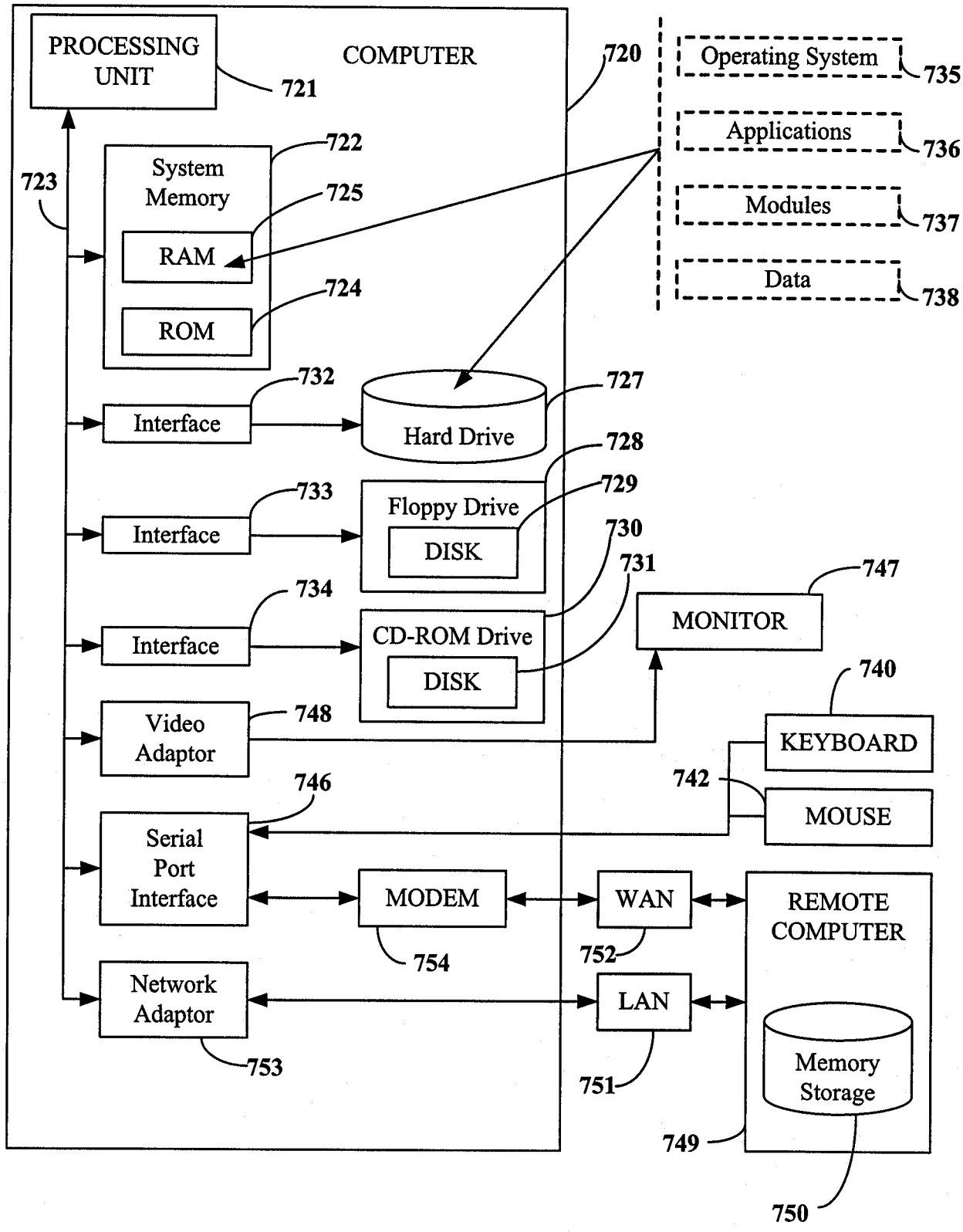

PROCESSING UNIT
721
COMPUTER
720
Operating System
735
Applications
736
Modules
737
Data
738
System Memory
722
723
725
RAM
724
ROM
732
Interface
Hard Drive
727
728
733
Interface
Floppy Drive
729
DISK
730
731
734
Interface
CD-ROM Drive
DISK
747
MONITOR
740
748
Video Adaptor
KEYBOARD
742
746
MOUSE
Serial Port Interface
MODEM
WAN
REMOTE COMPUTER
754
752
Network Adaptor
LAN
753
751
Memory Storage
749
750

Fig. 7