

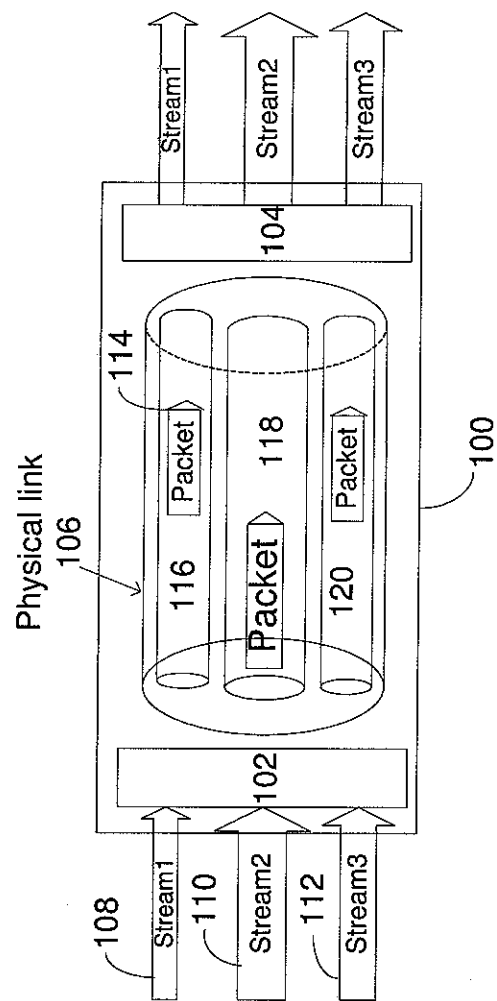


Fig. 1

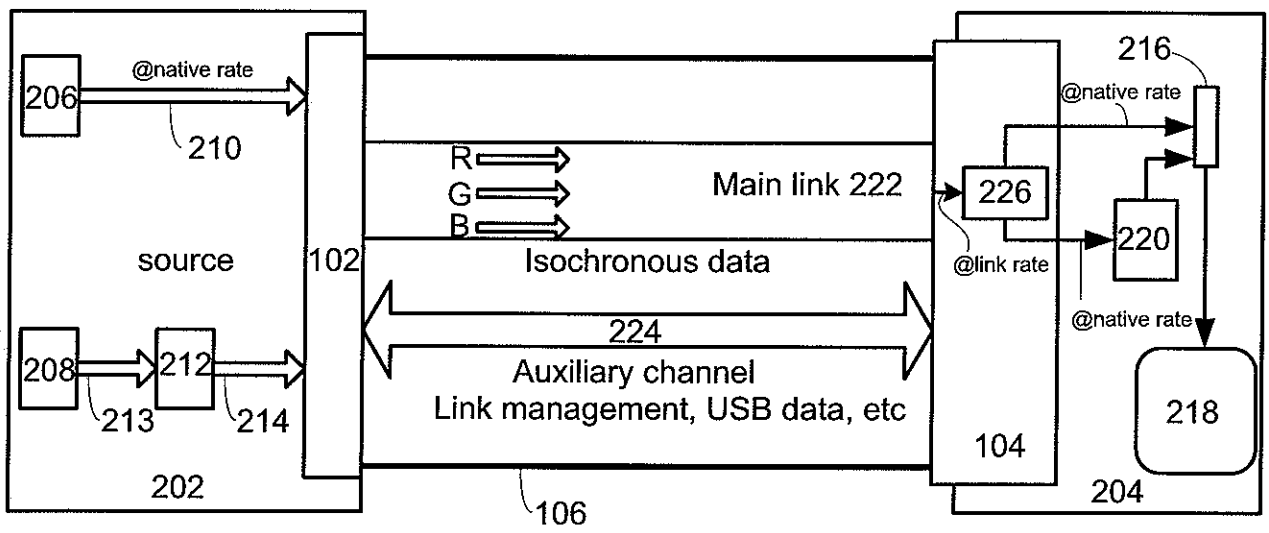


Fig. 2A

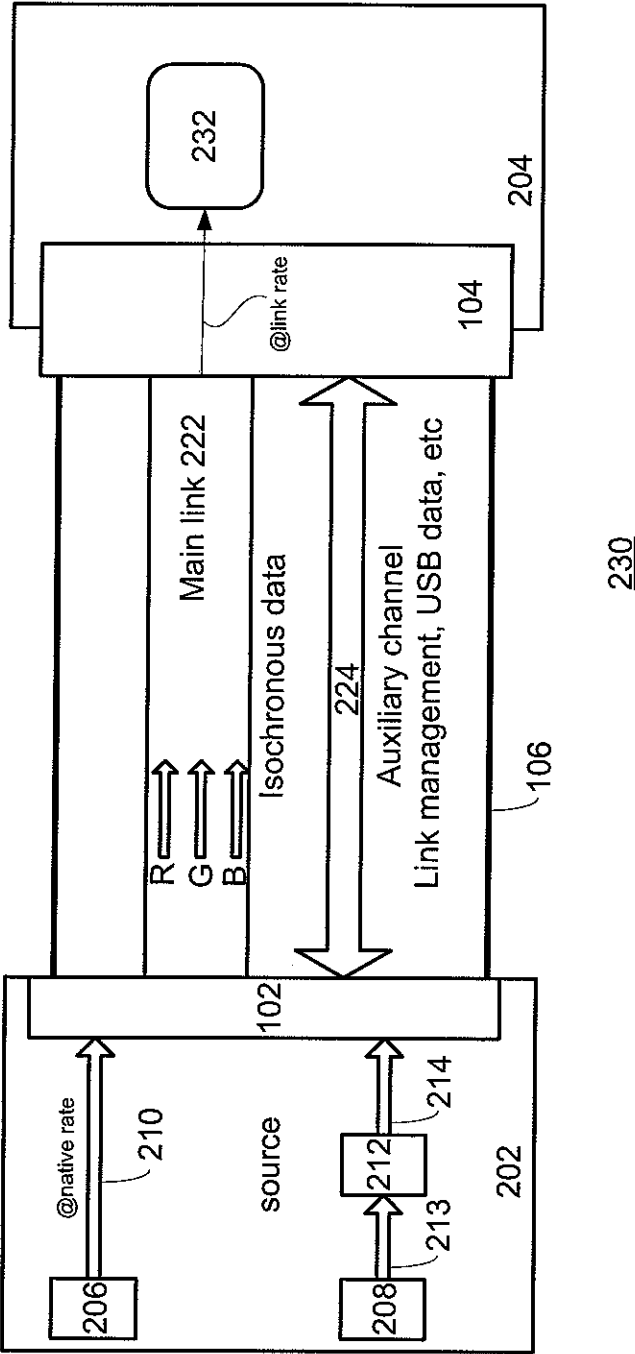


Fig. 2B

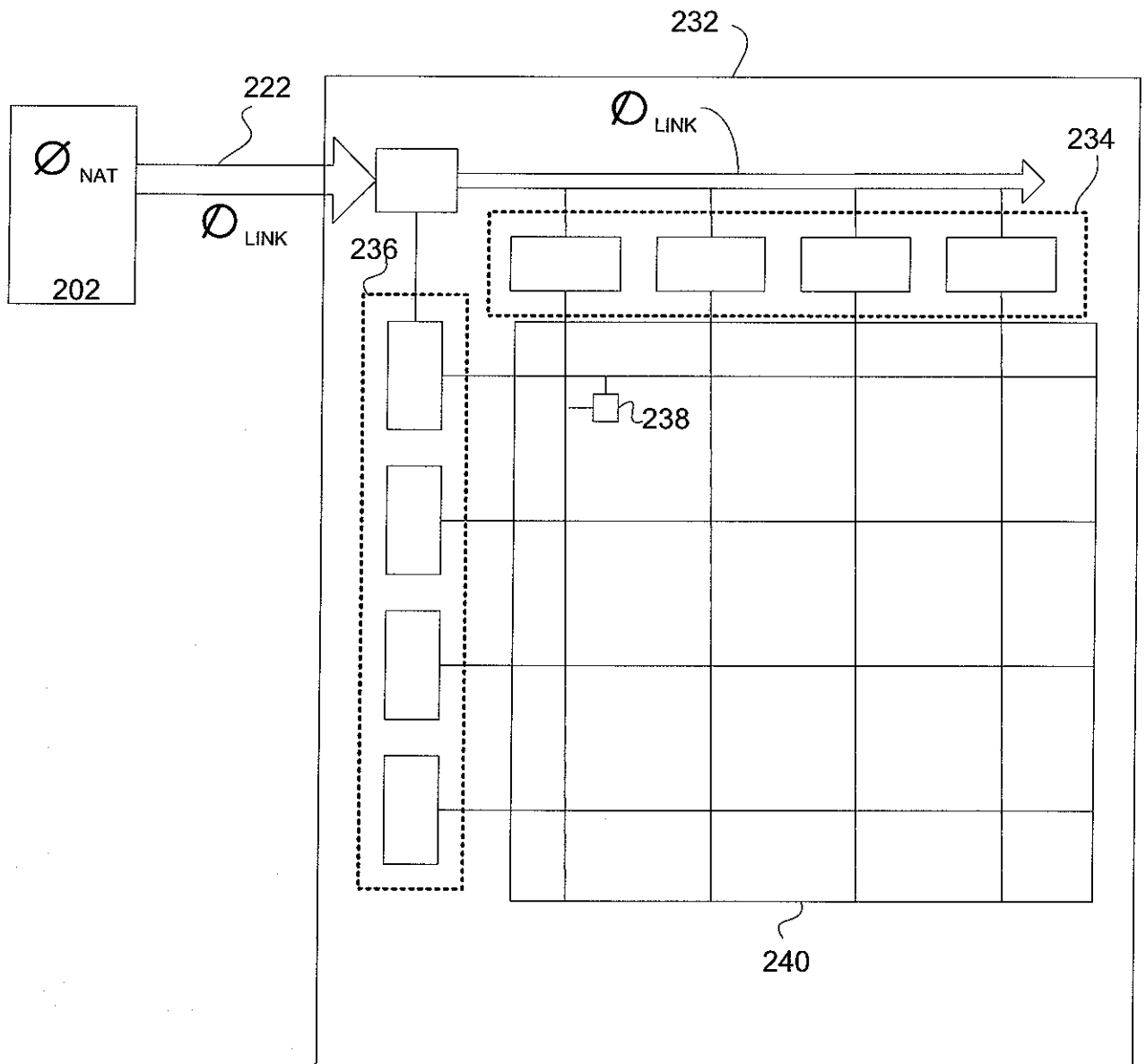


Fig. 2C

Main Link Data
Rates

Nominal Baud Rate per channel (Gbits/second)	Actual Baud Rate per channel (Gbits/second)	Clock Multiplication Factor from 24-MHz crystal
1.0	0.960	x40
1.35	1.344	x56
1.7	1.728	x72
2.1	2.112	x88
2.5	2.496	x104

Fig. 3

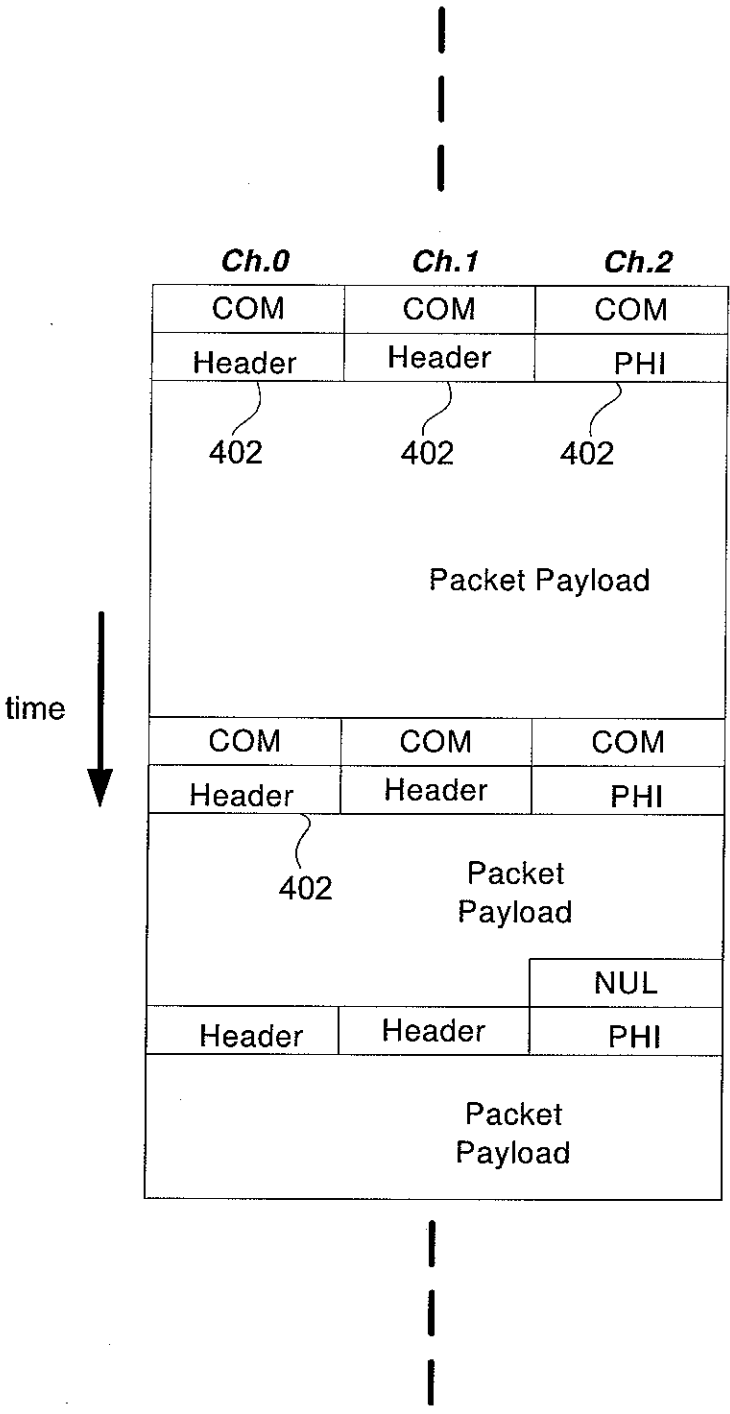


Fig. 4A

Main Link Packet Format

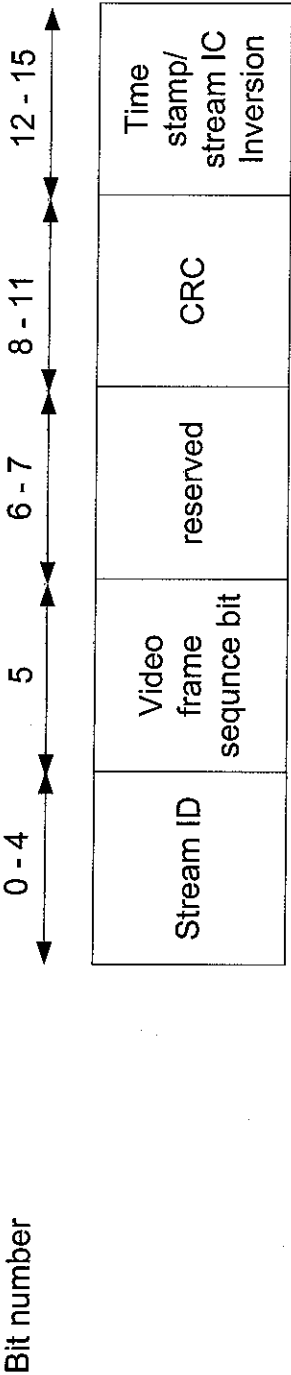
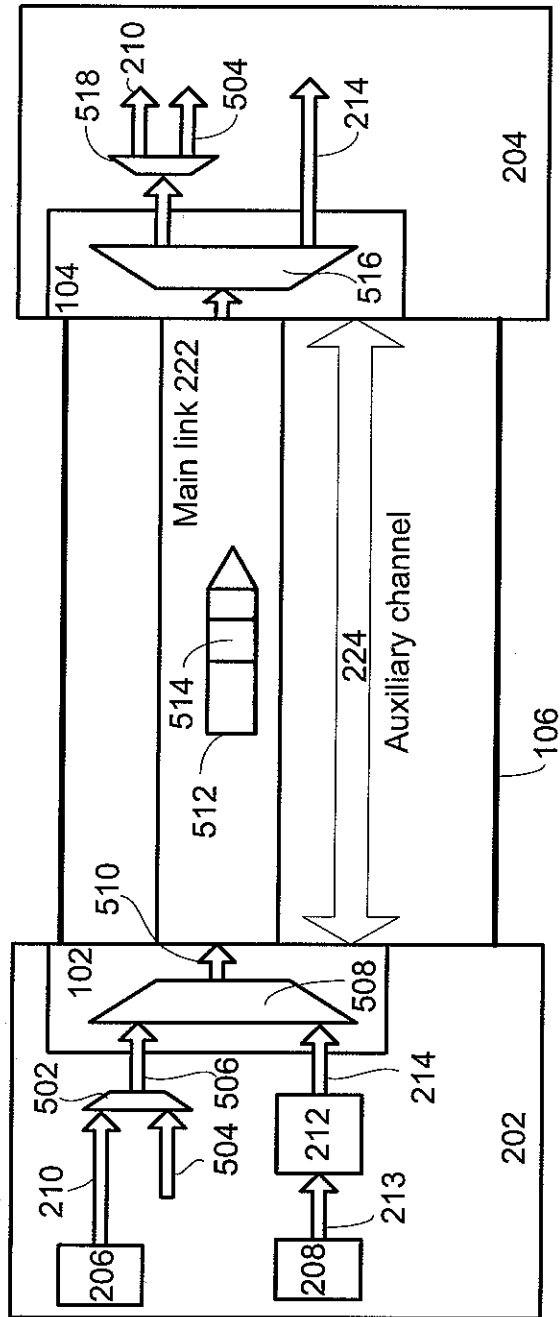
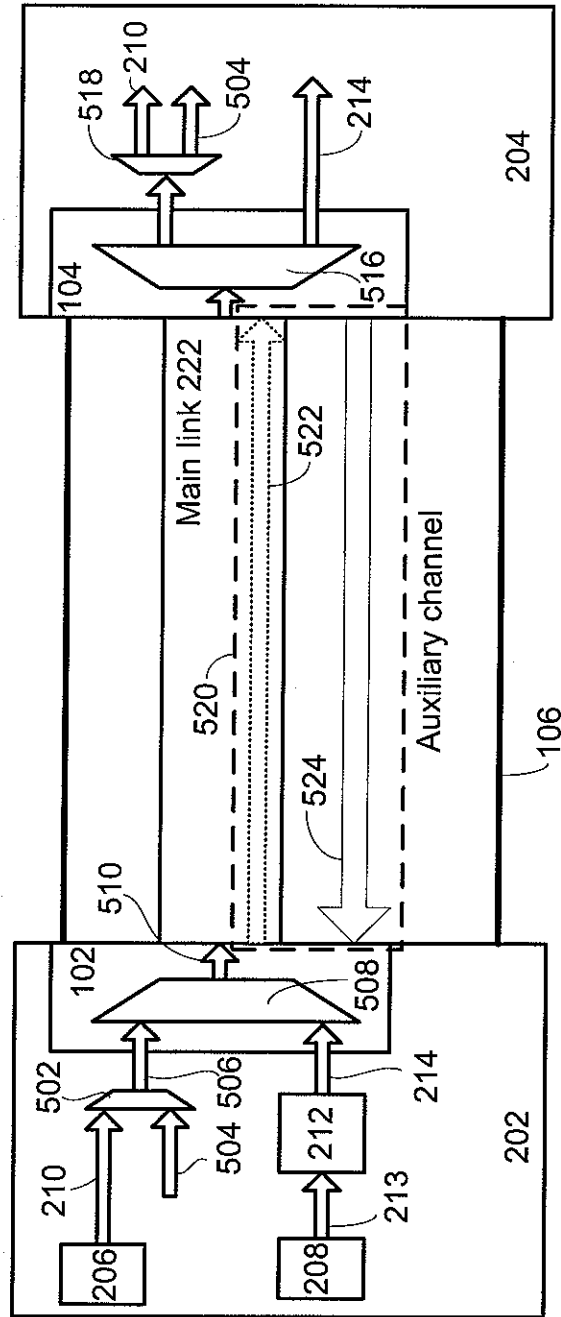


Fig. 4B



500

Fig. 5A



500

Fig. 5B

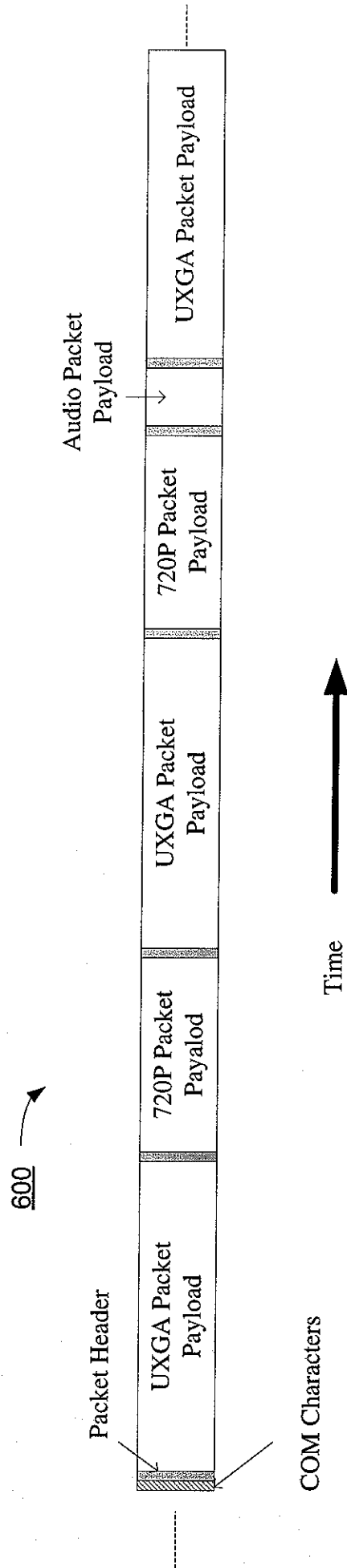


Fig. 6

High-level diagram of link traffic example with three streams

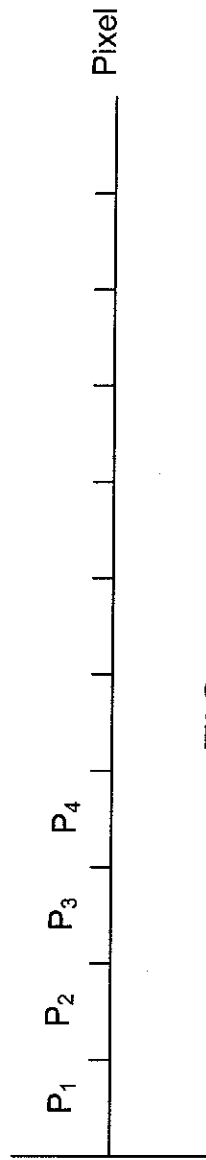
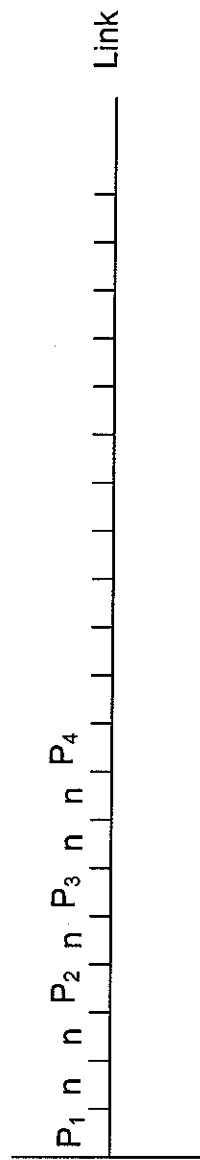


FIG. 7



$n = \text{null}$

FIG. 8

SID = 1		0	0	0	0	CRC		TSP19-16		PHI
Sub-packet Header										
		902				Sub-packet Header		902		SPS 904
Sub-packet Payload										
SID = 1		1	0	0	0	CRC		TSP3-0		PHI
Packet Payload for SID 1										

Fig. 9A

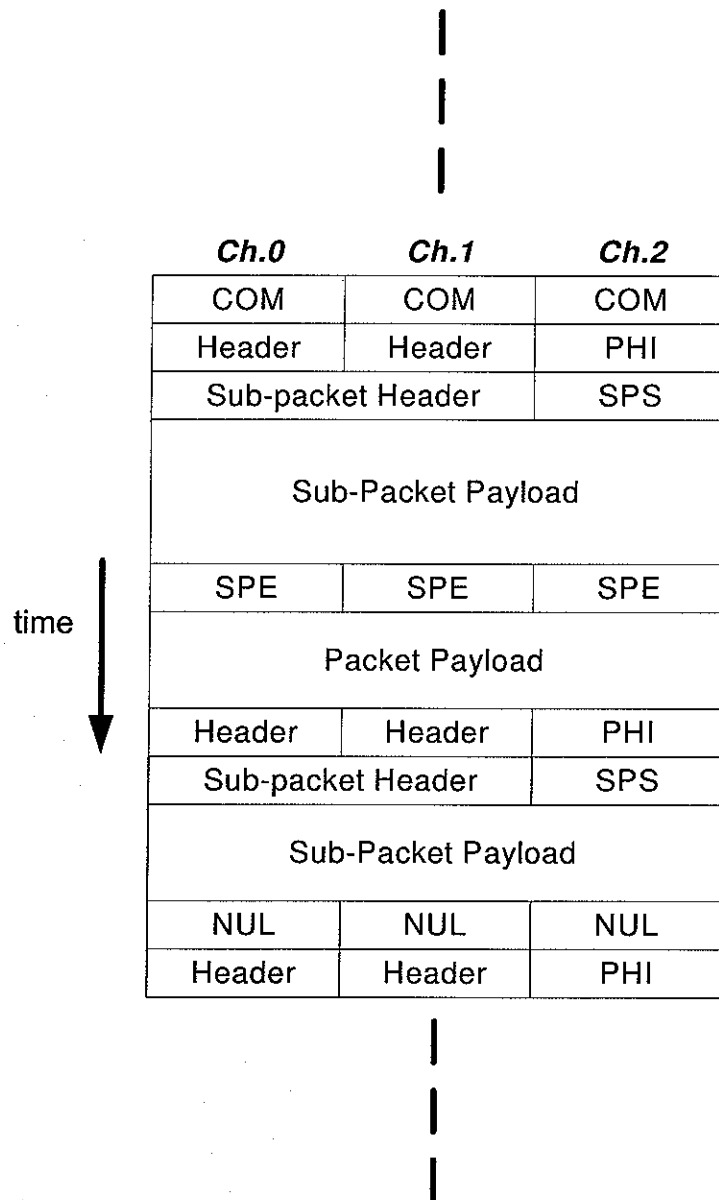


Fig. 9B

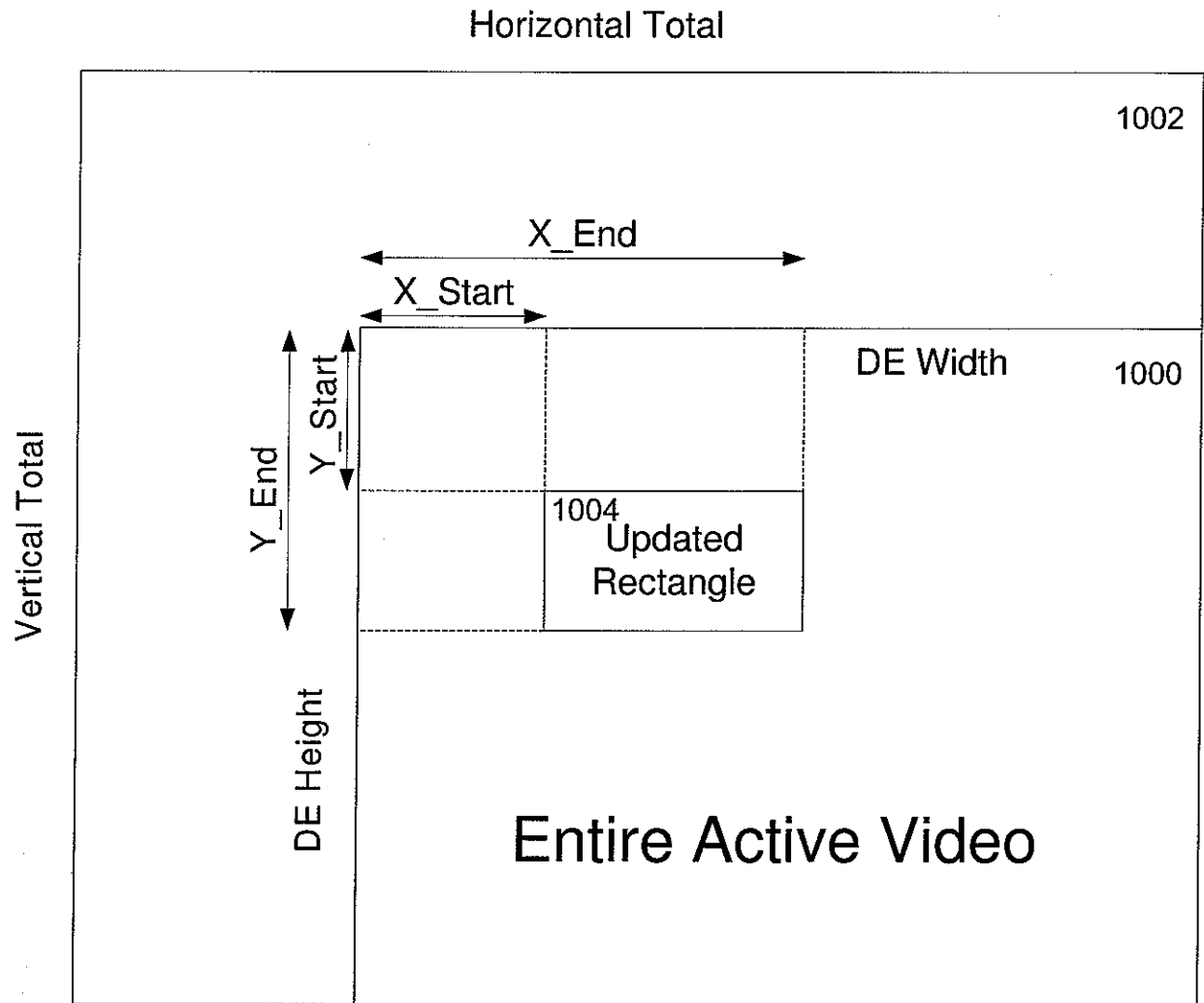


Fig. 10

Phase	Transmitted Link Characters	Binary pattern
1	D10.2	0101010101 0101010101 0101010101 0101010101 0101010101
2	K28.7	0011111000 0011111000 0011111000 0011111000 0011111000
3	K28.5, and three D10.2	0011111010 0101010101 0101010101 0101010101 1100000101

Main Link Training
Pattern

Fig. 11

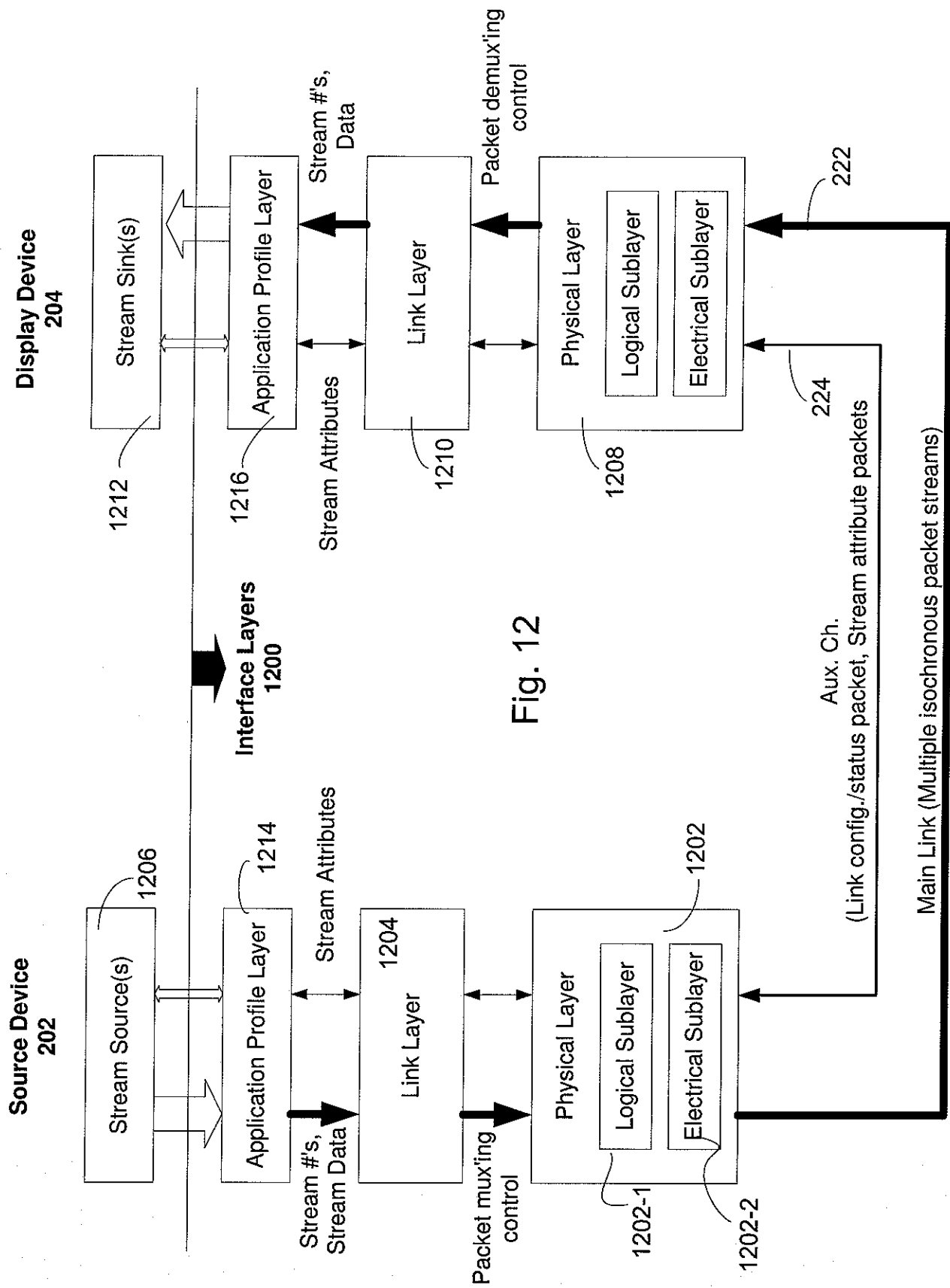


Fig. 12

8B/10B Special Characters Usage

Encoding	Name	Description
K28.5	Comma (COM)	Inserted between packets. Also used as part of Test Pattern
K28.7	TrainingPattern (TPN)	Sent during Training Pattern transmission for bit/byte clock lock.
K23.7	Null (NUL)	Sent within the packet period when there is no data to transmit.
K28.2	Sub-packet Start (SPS)	Indicate a start of sub-packet inserted in a packet
K29.7	Sub-packet End (SPE)	Indicate an end of sub-packet inserted in a main packet.
K28.0	PacketHeaderIndicator (PHI)	Sent along with 16 bits of header for header identification.
K28.1		Reserved
K28.3		Reserved
K28.4		Reserved
K28.6		Reserved
K25.7		Reserved
K27.7		Reserved

Fig. 13

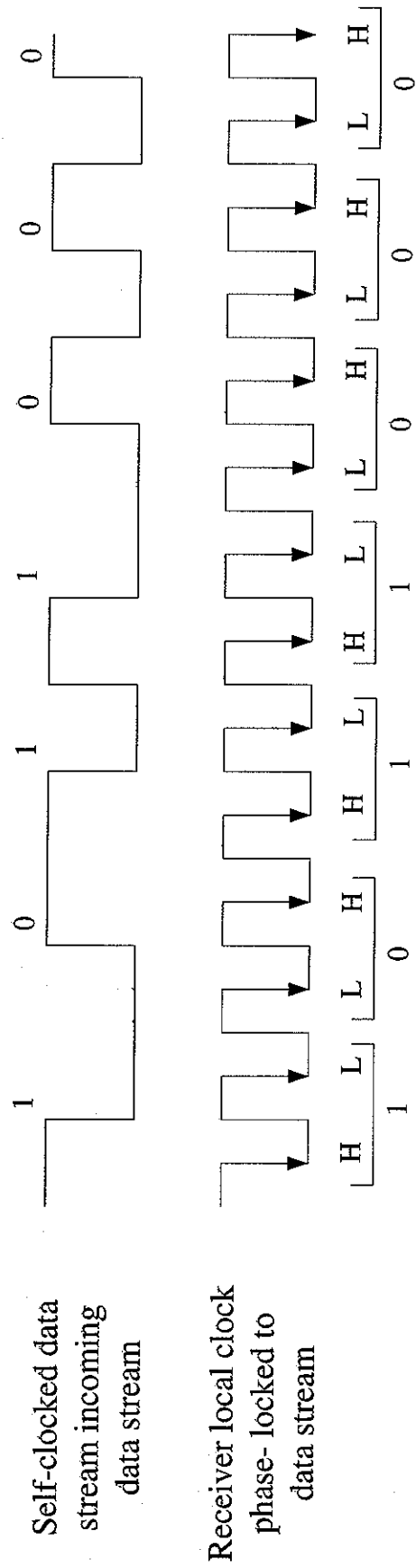


Fig. 14

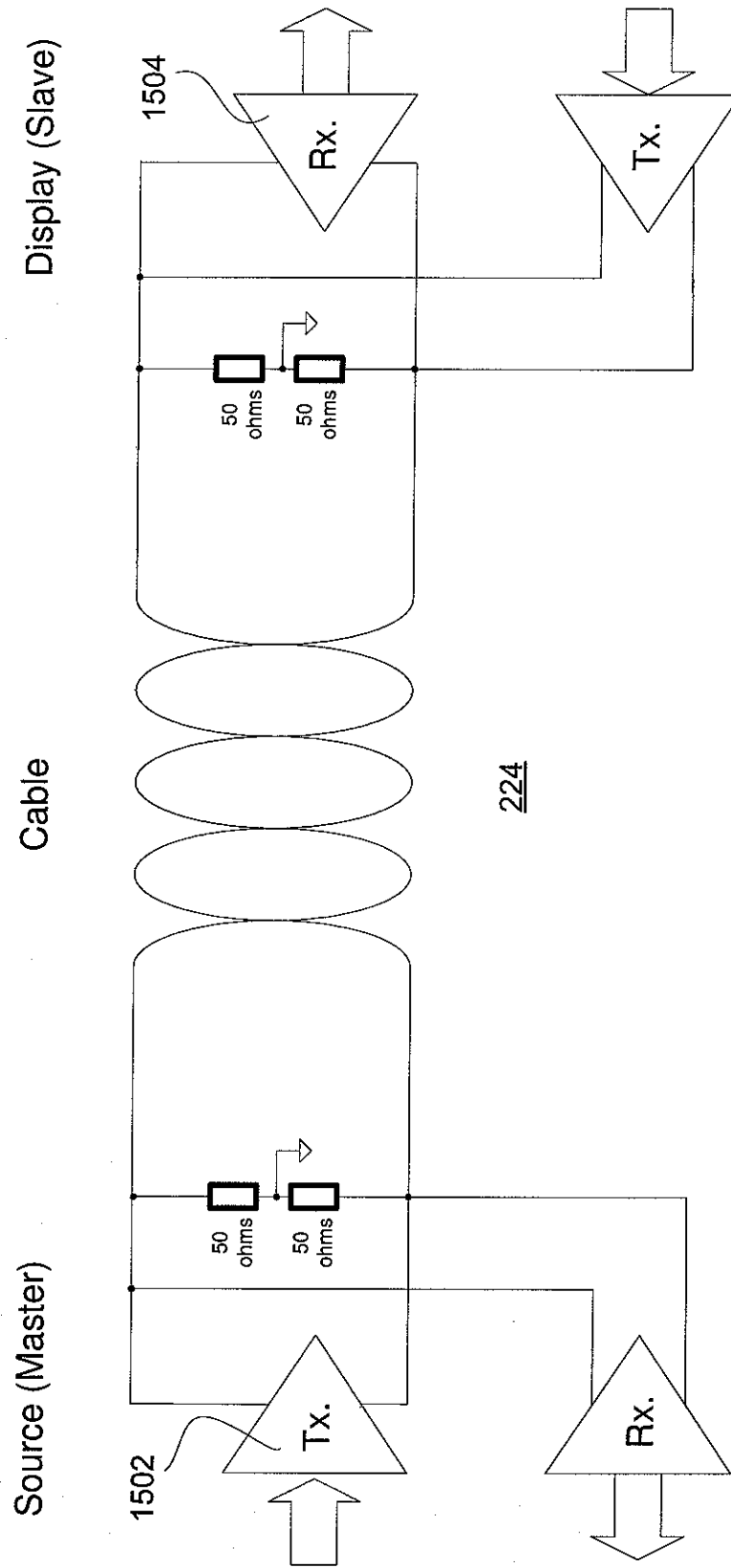


Fig. 15

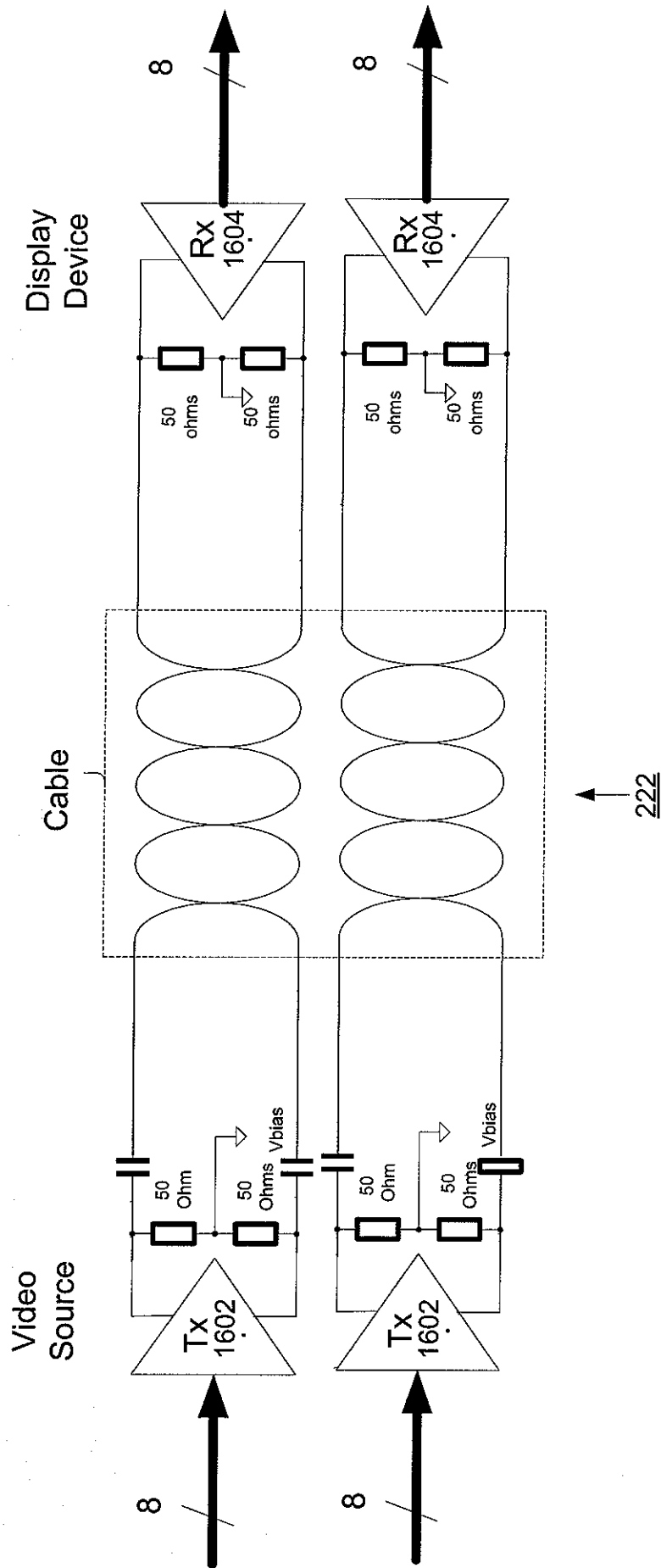
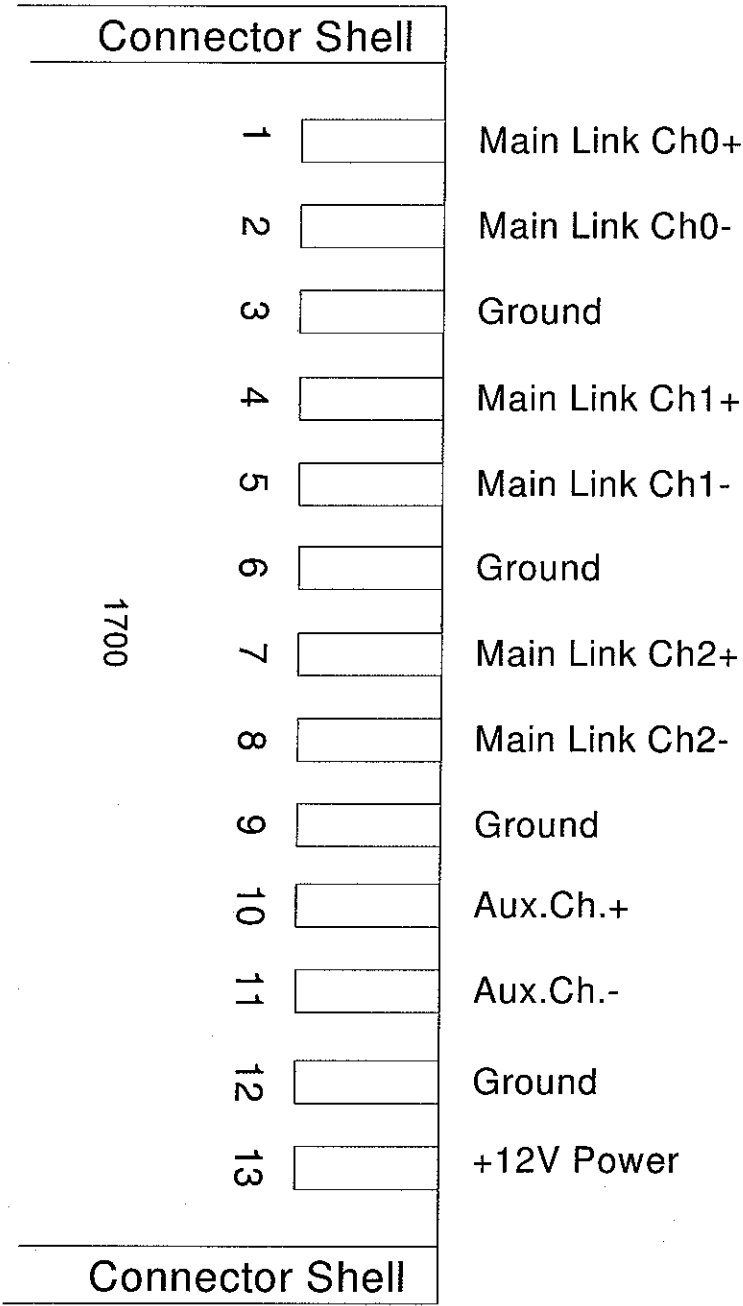


Fig. 16

Fig. 17



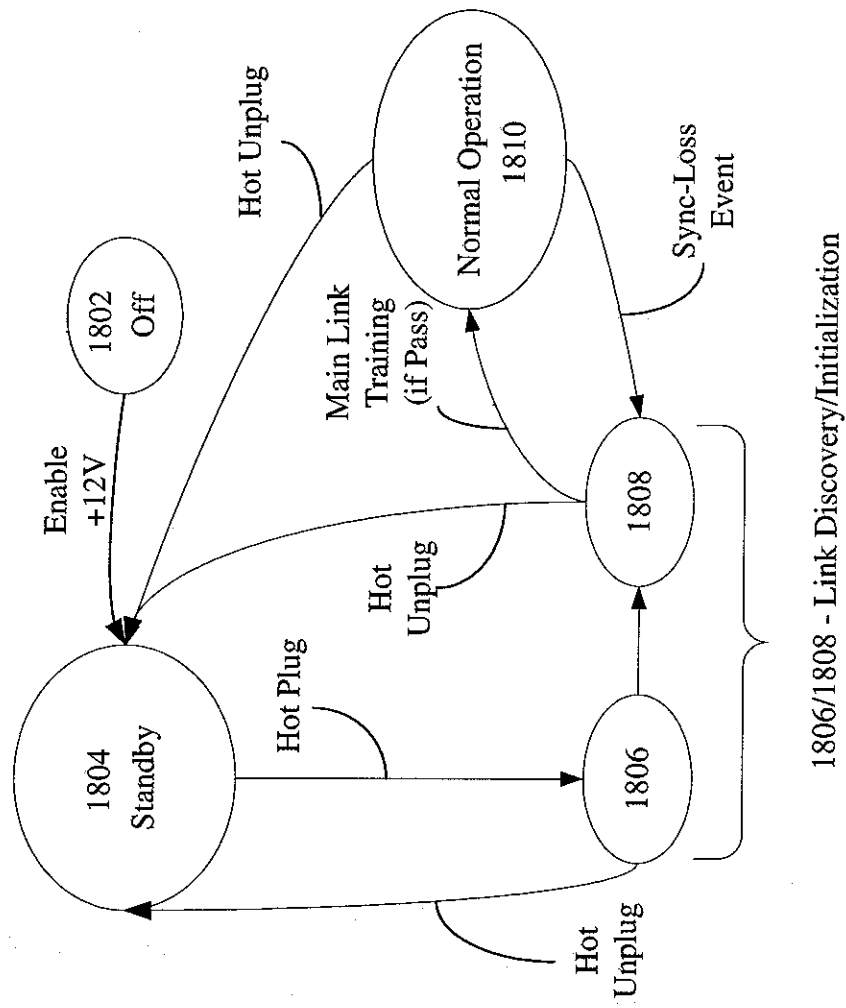


Fig. 18

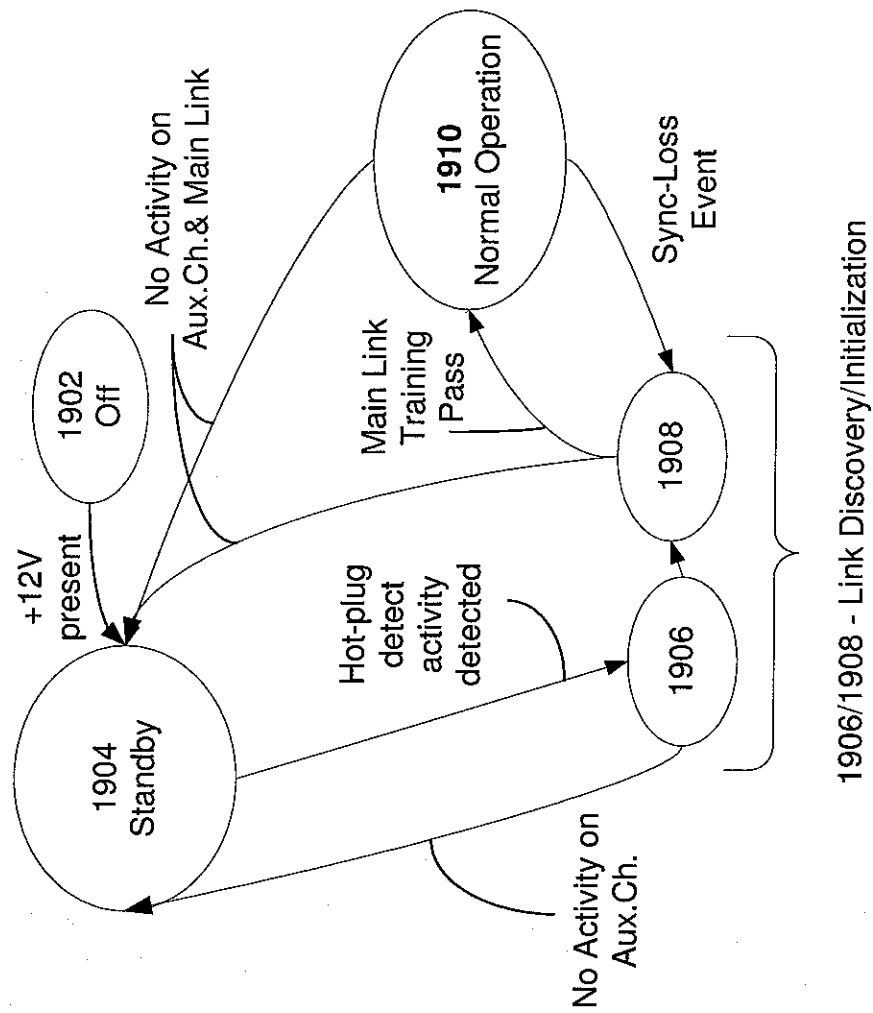


Fig. 19

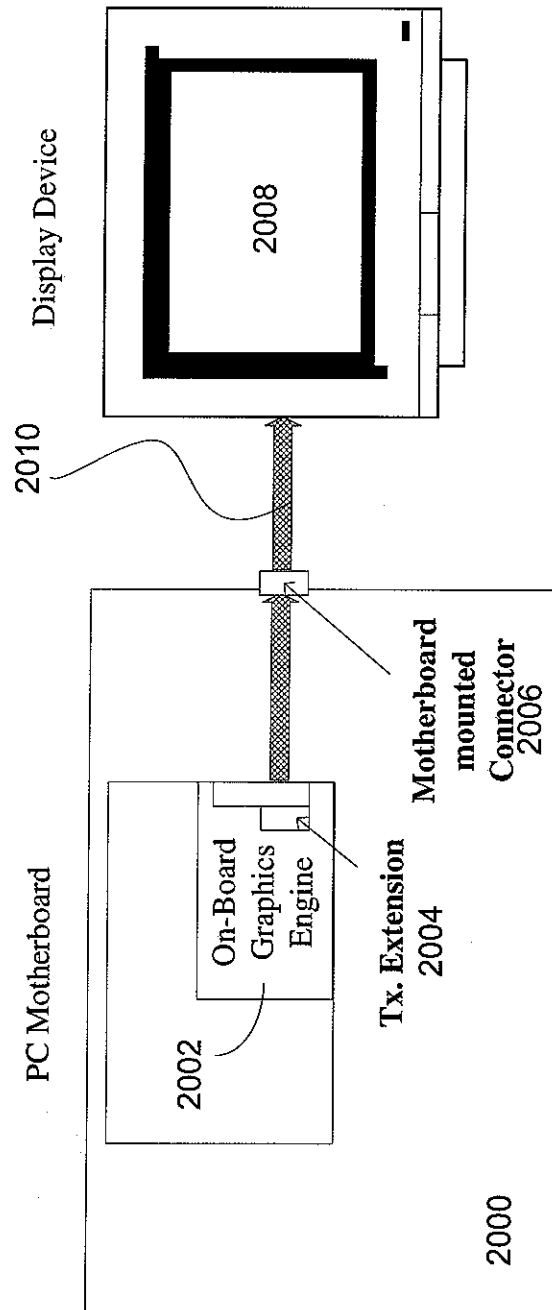
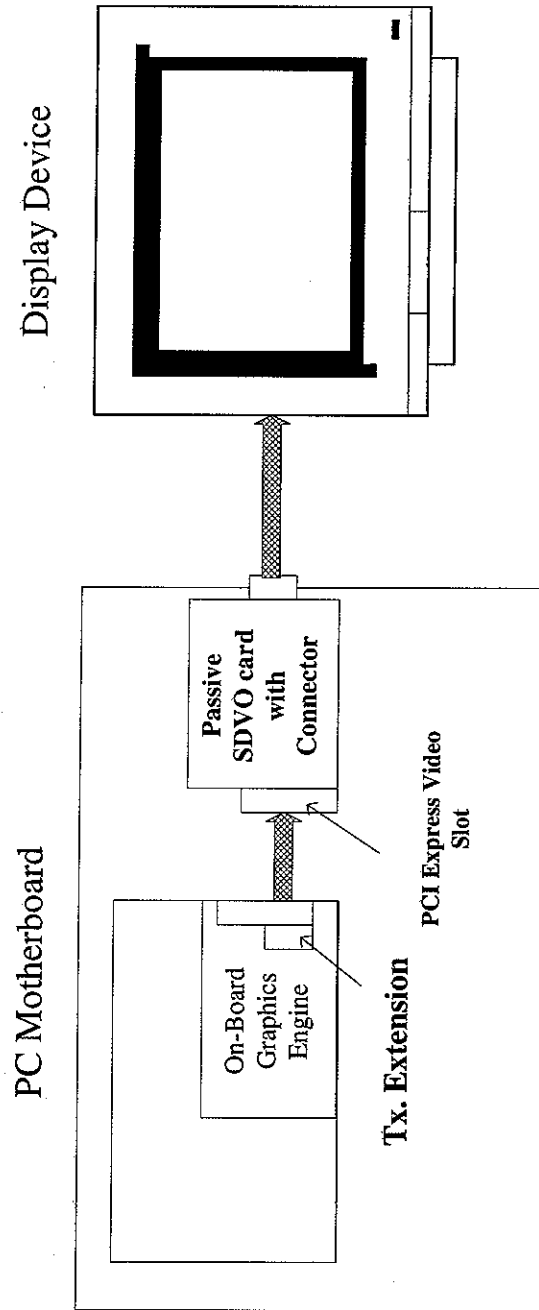
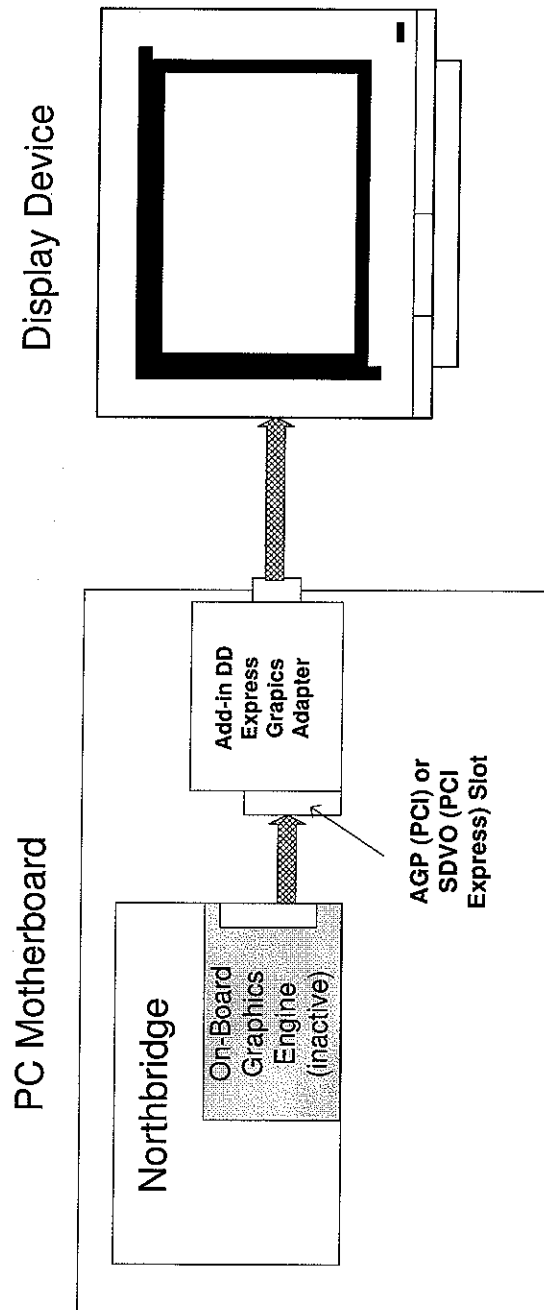


Fig. 20



PCI Express motherboard with passive connector card.

Fig. 21



PCI Express motherboard with add-in DD-Express graphics card

Fig. 22

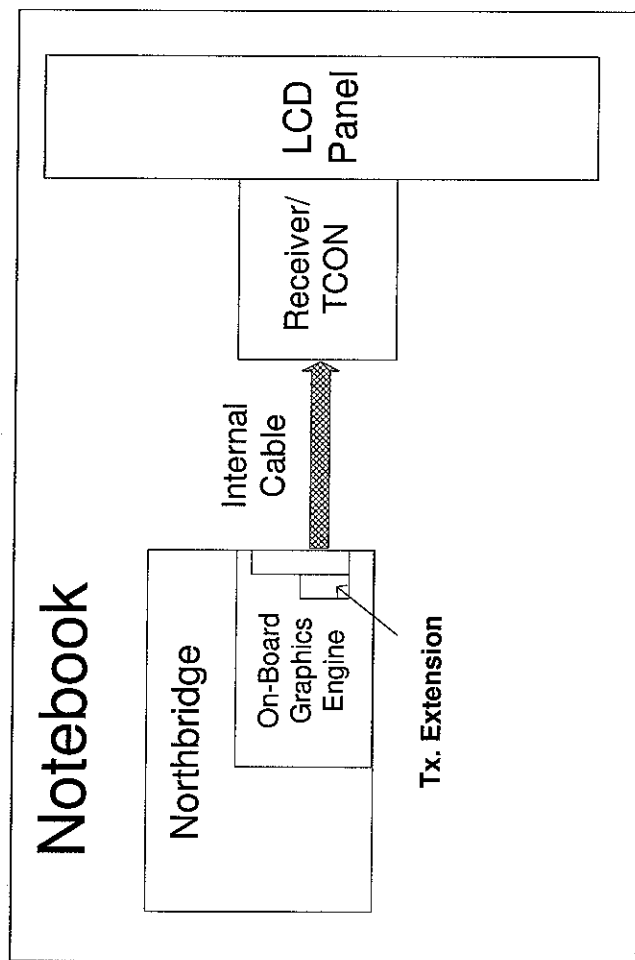
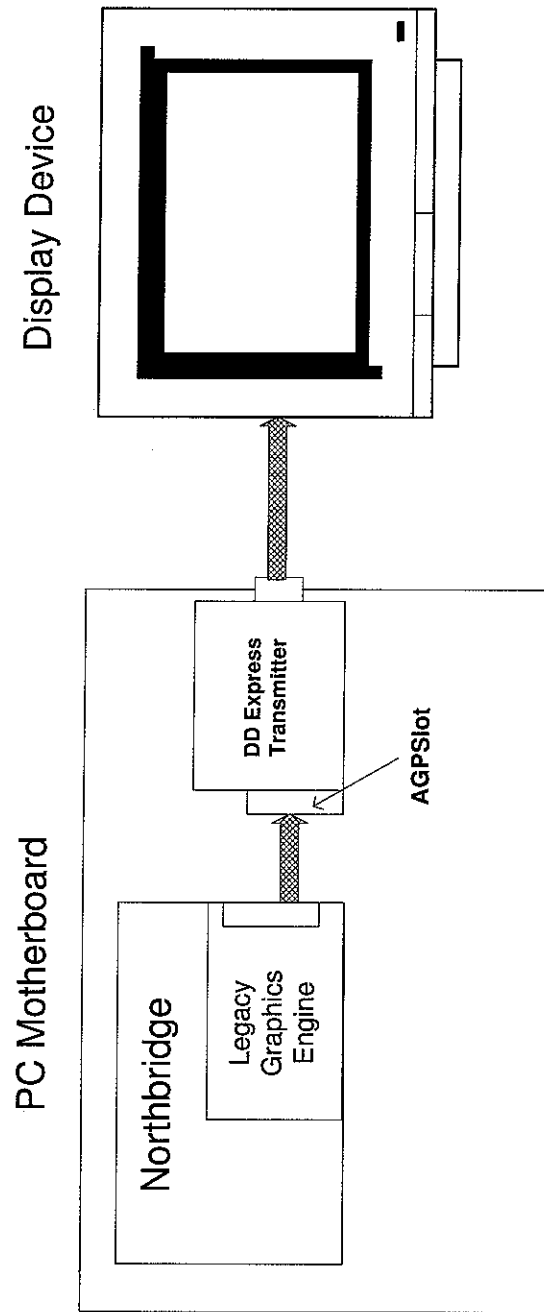


Fig. 23



Legacy graphics accelerator bus transmitter mounted on a legacy bus card slot converts digital raster data/timing signals into main link streams

Fig. 24

Fig. 25

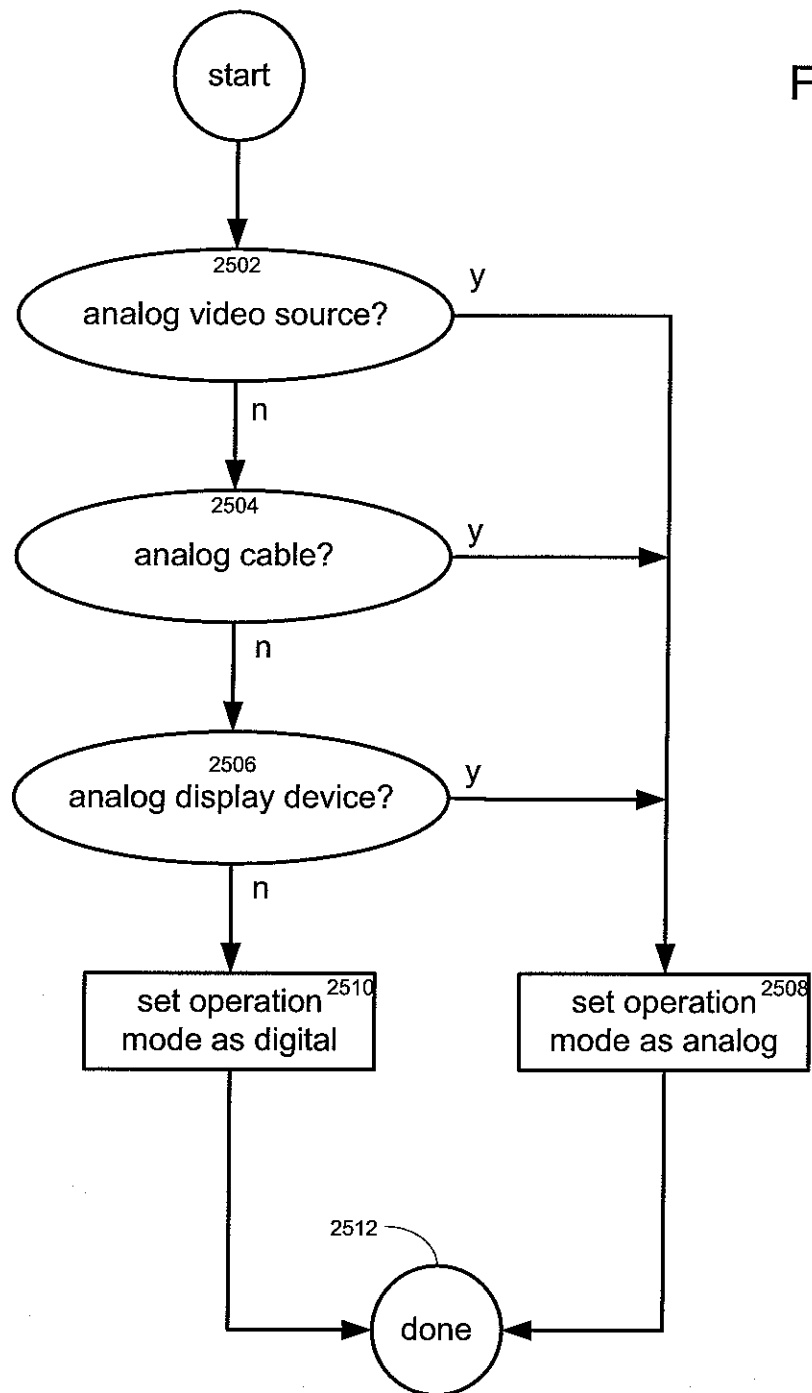
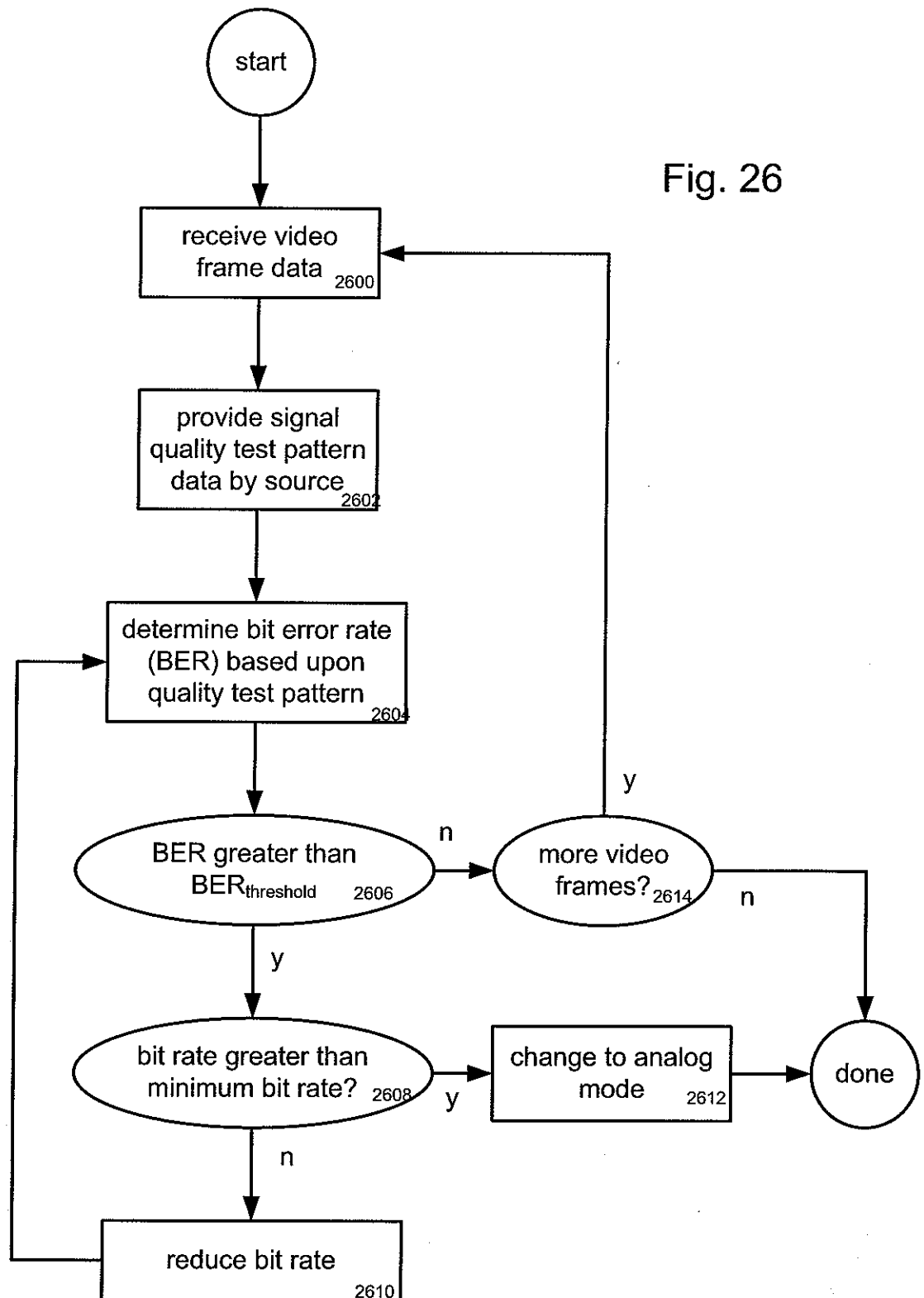


Fig. 26



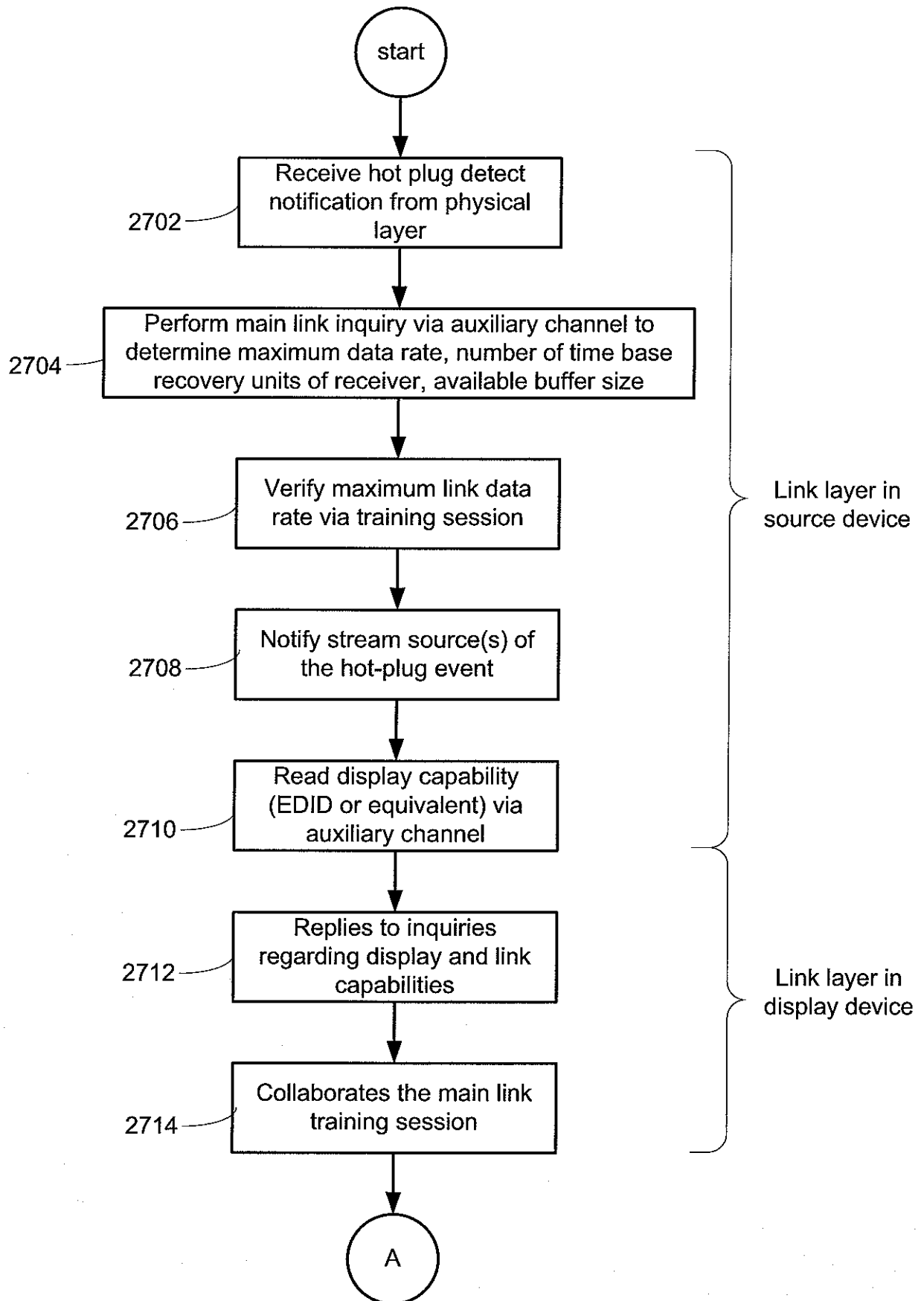


Fig. 27A

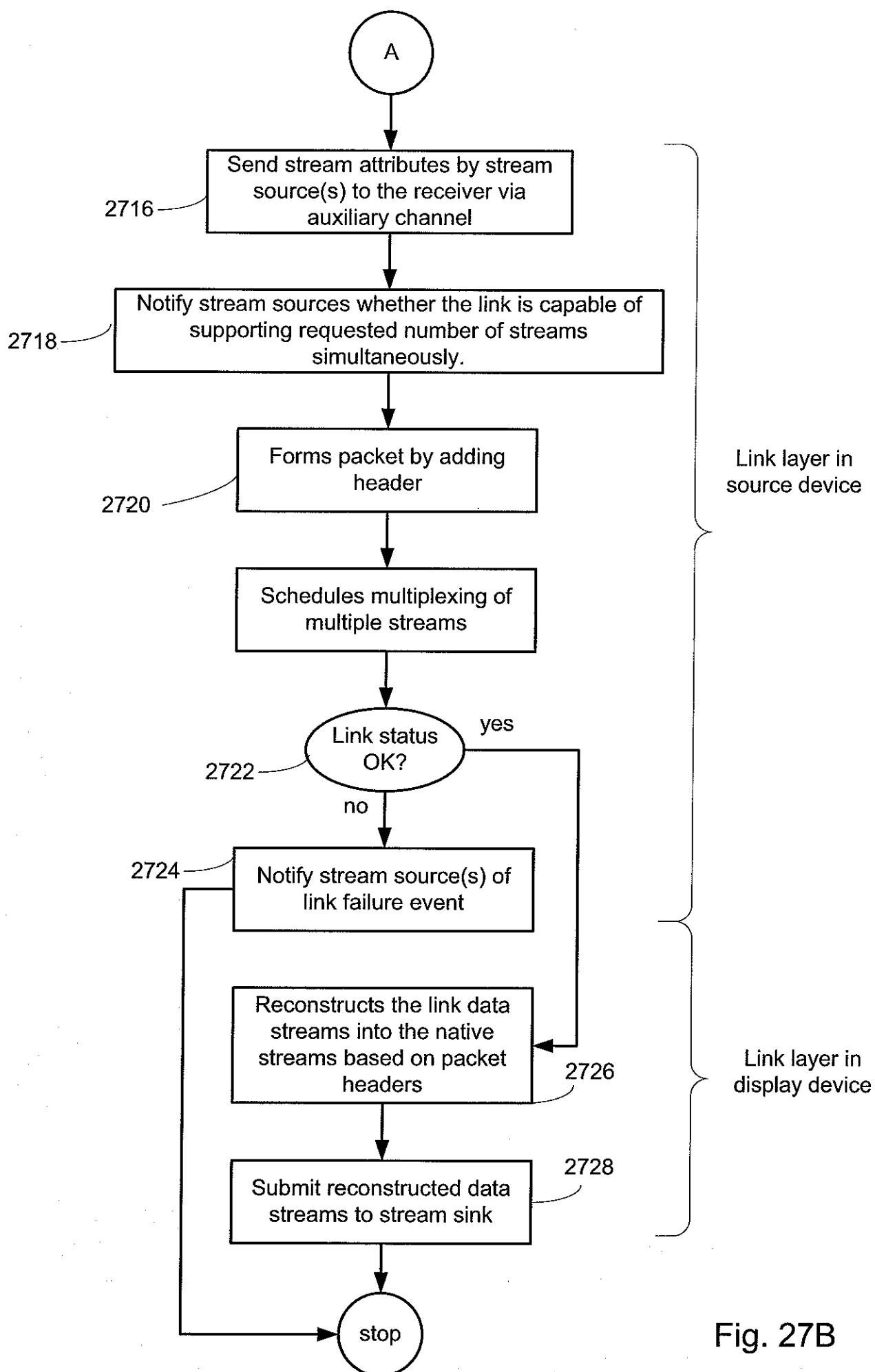


Fig. 27B

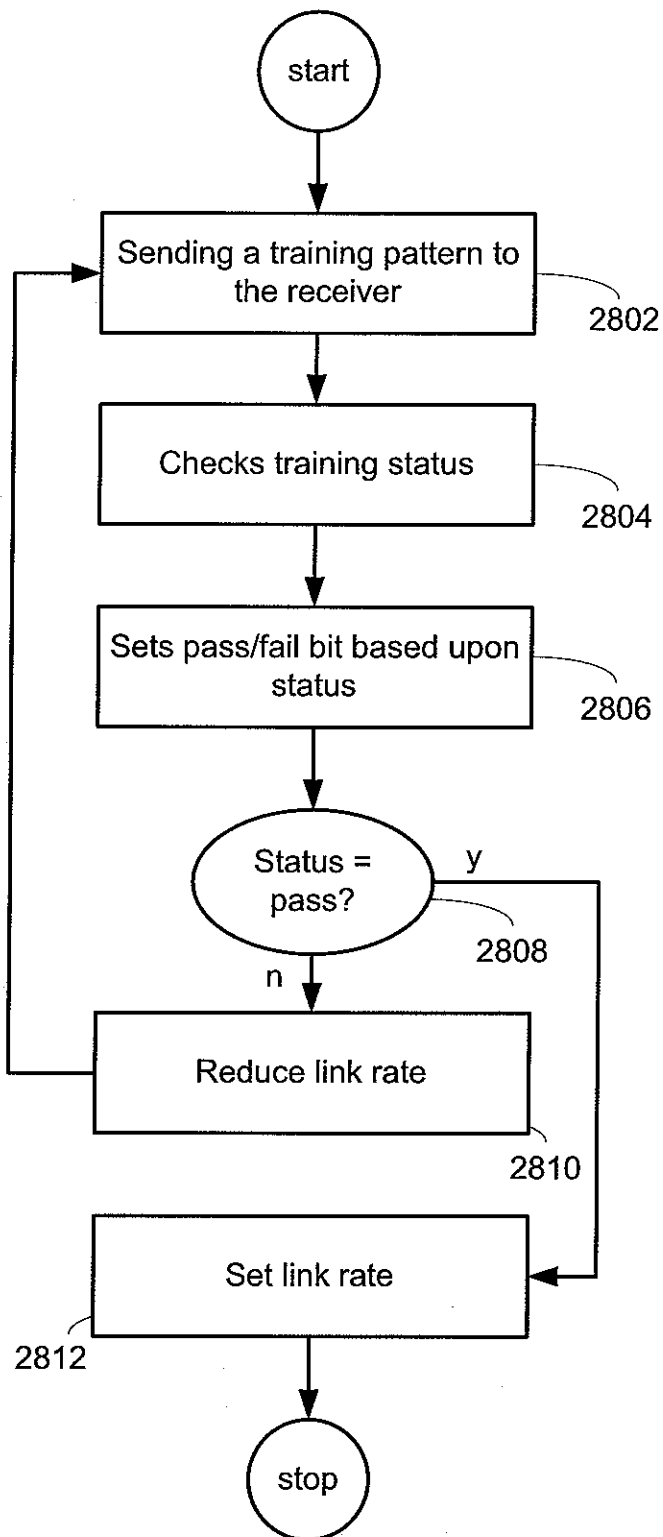


Fig. 28

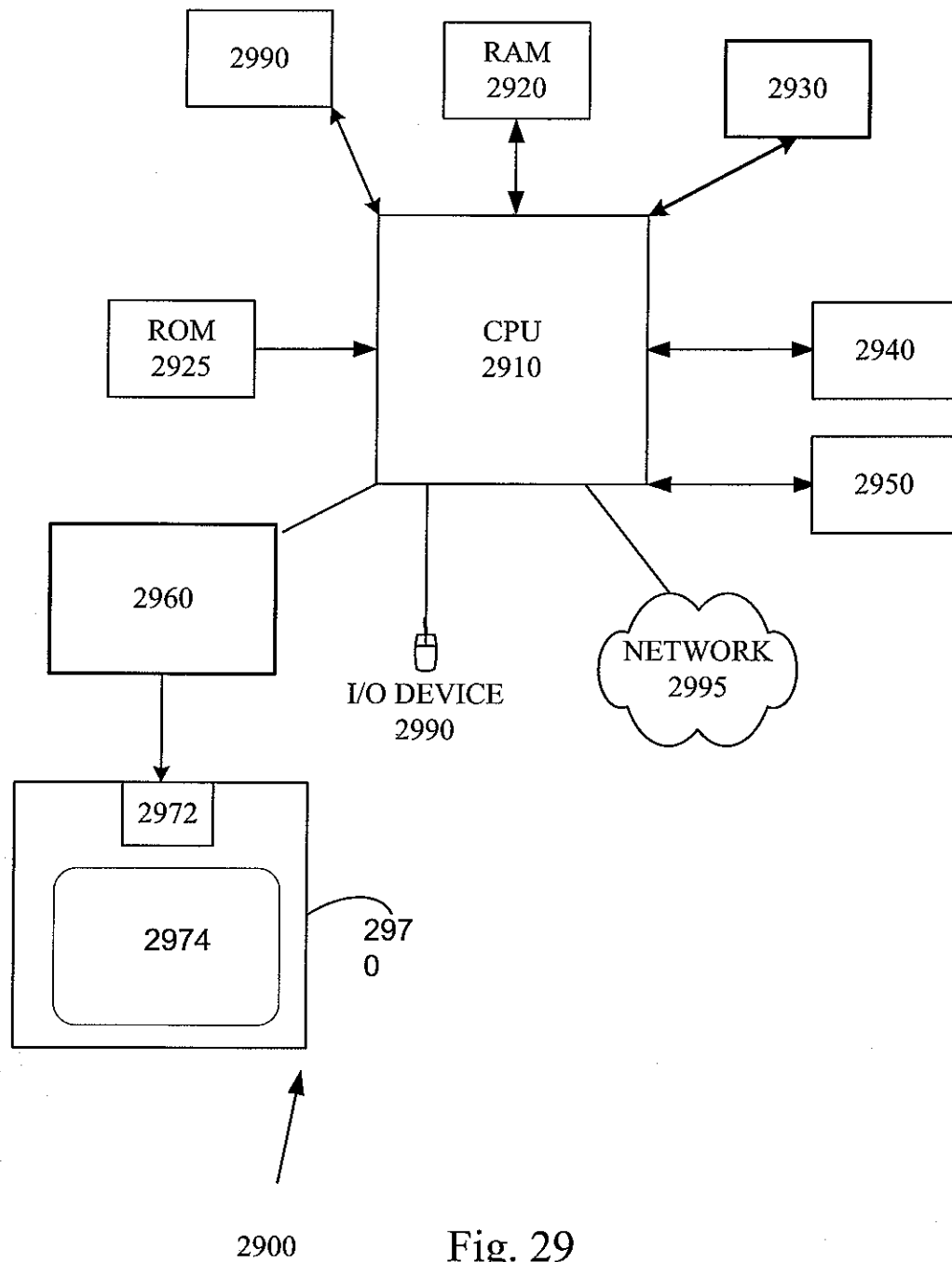


Fig. 29

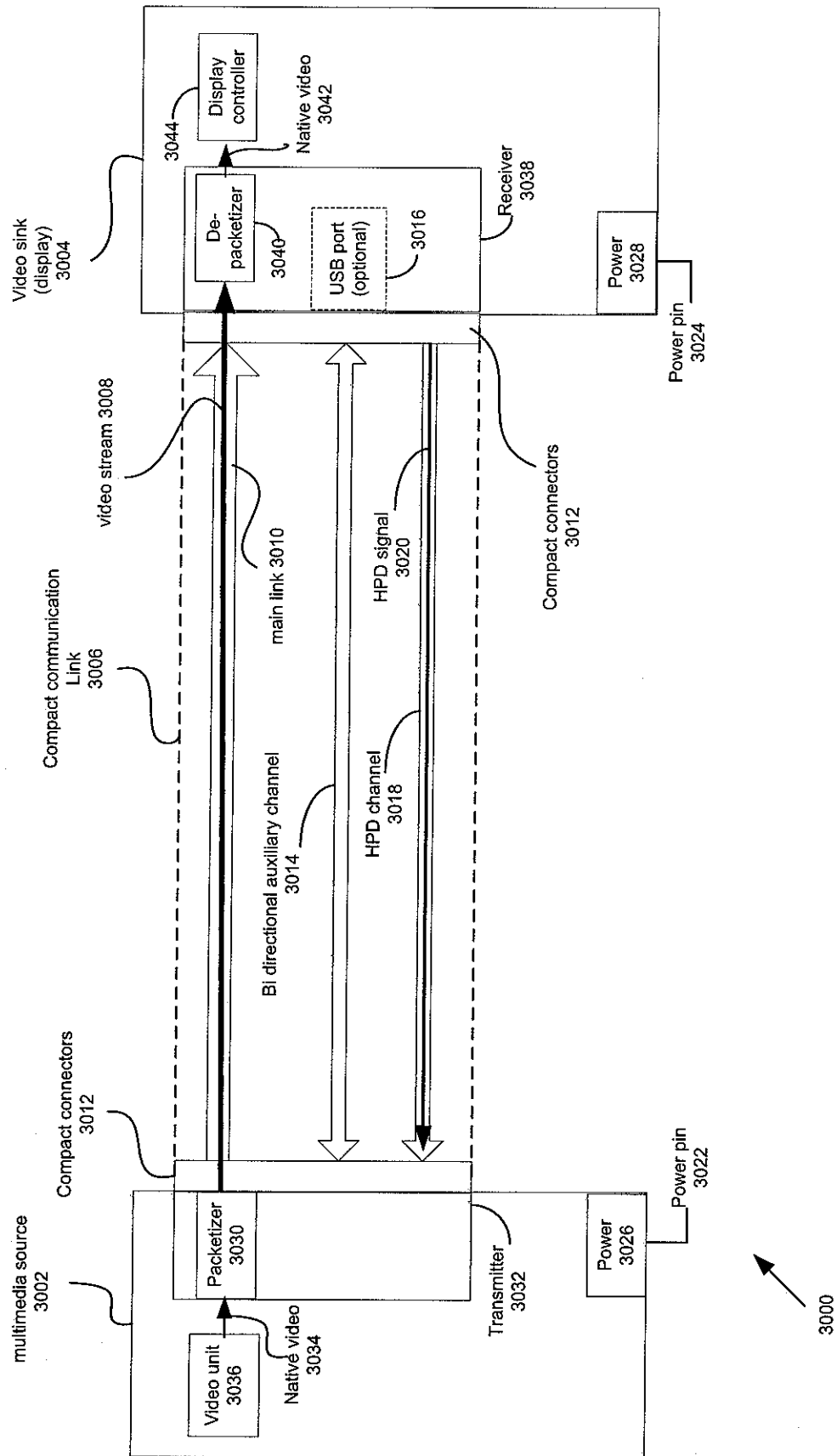


Fig. 30

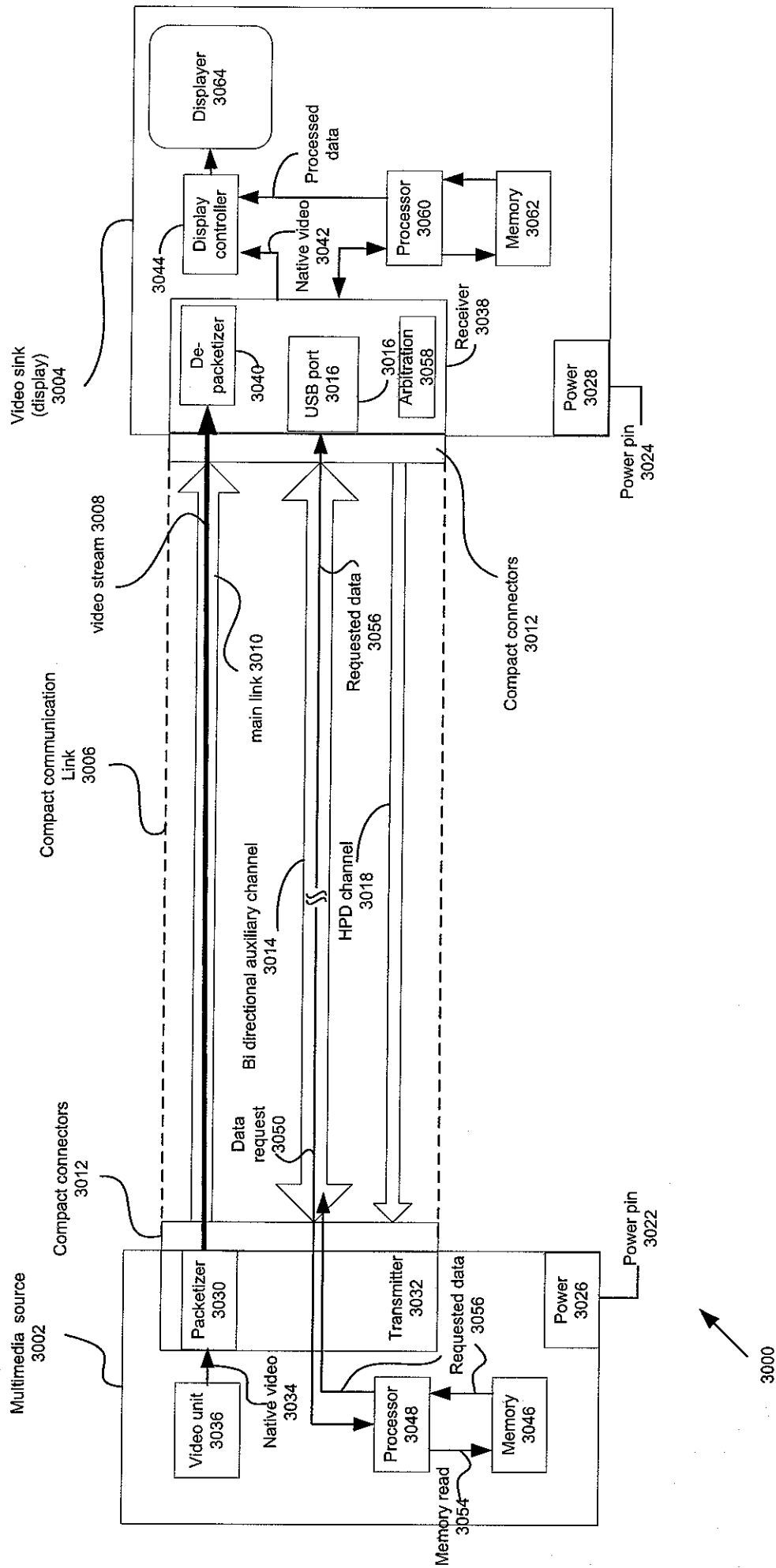


Fig. 31

3200

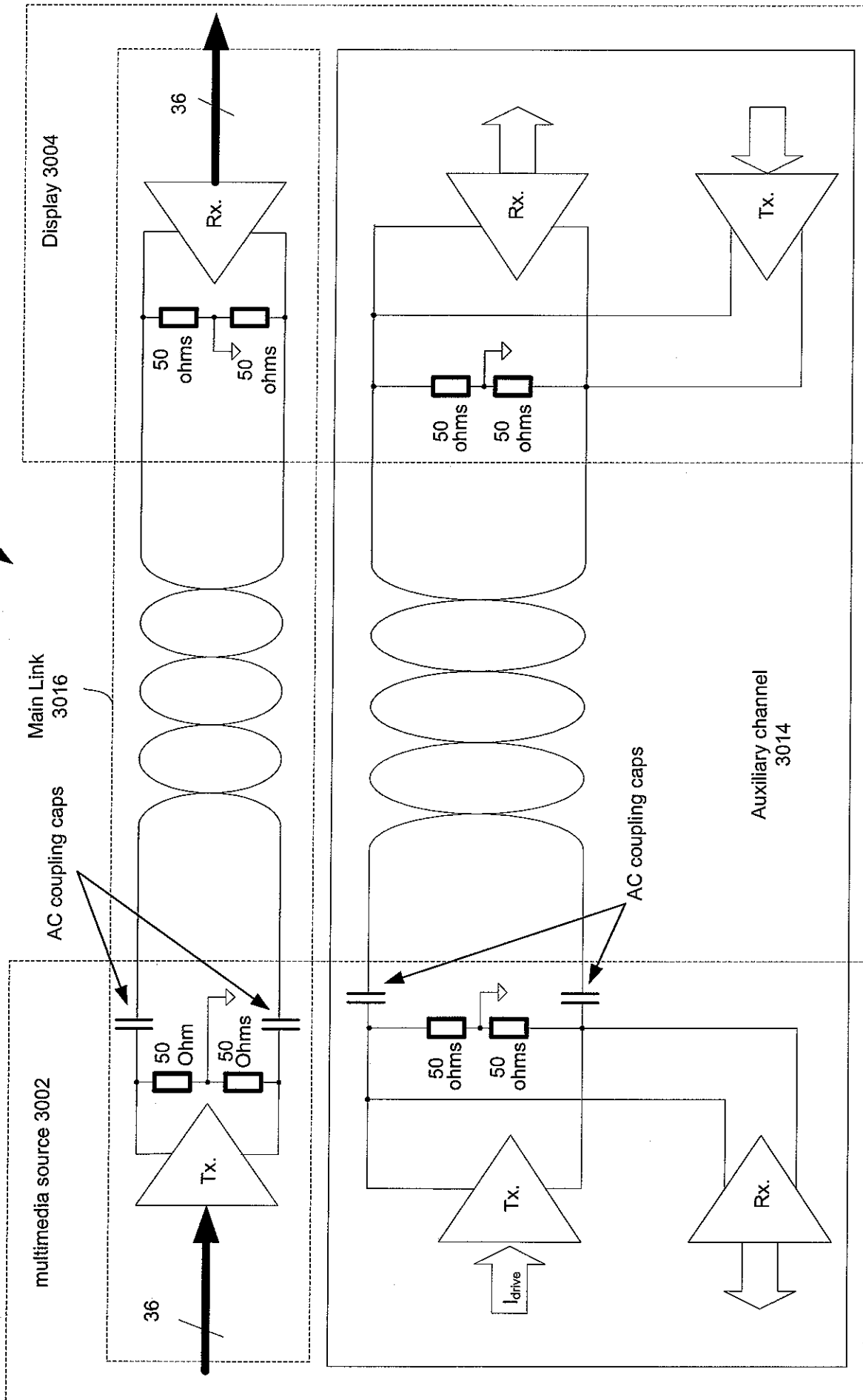
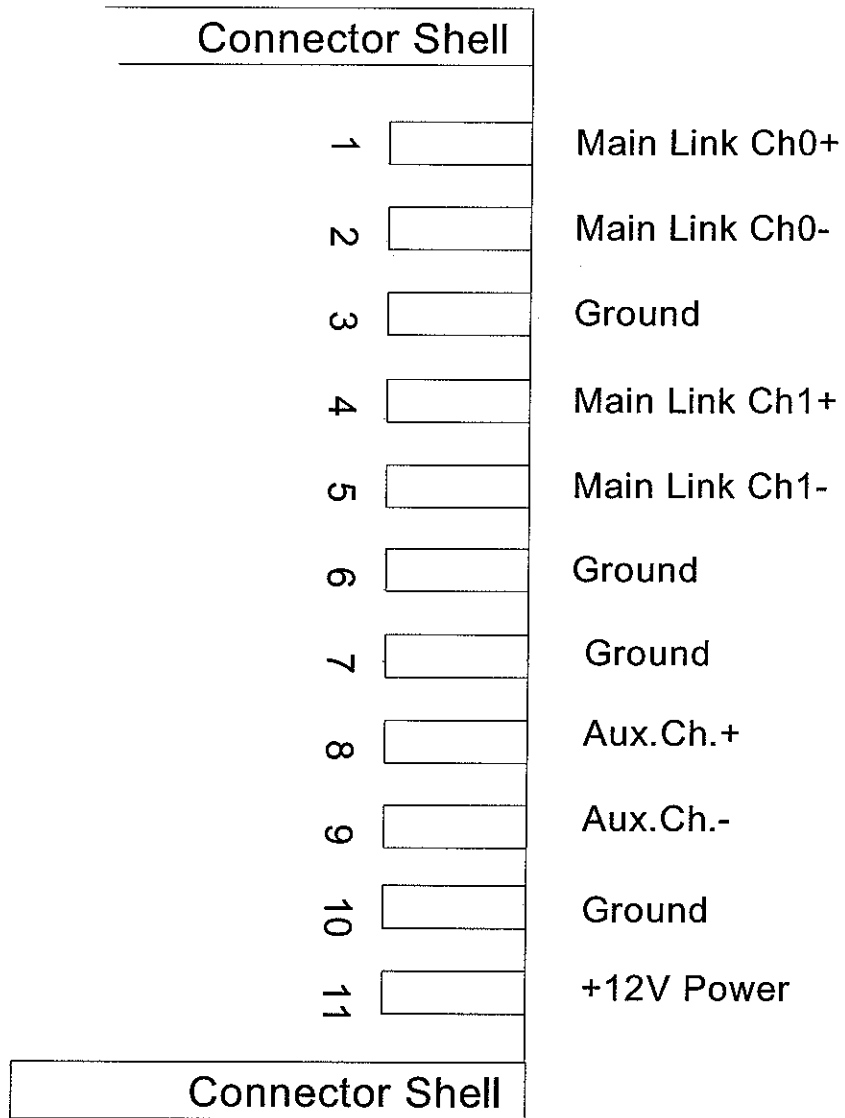


Fig. 32

Fig. 33



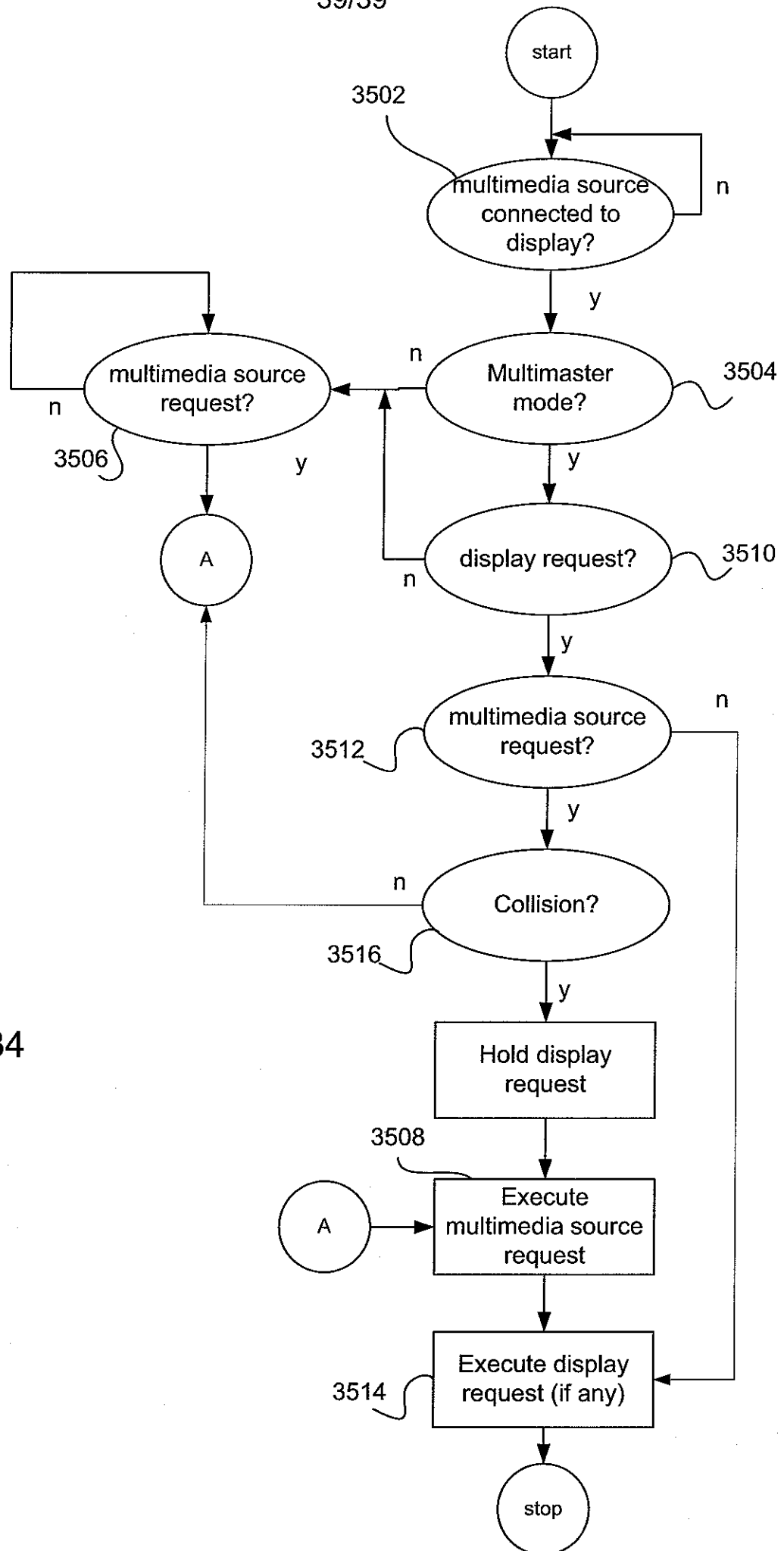


Fig. 34