

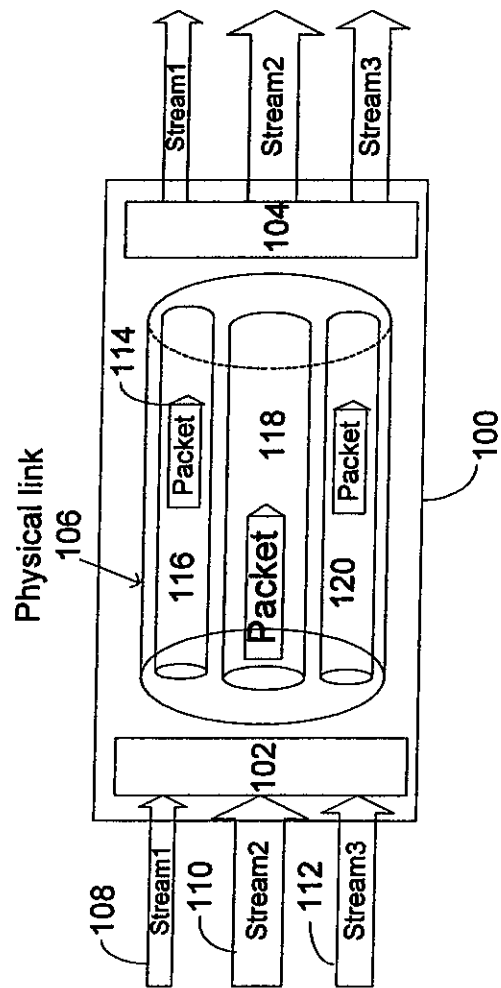


Fig. 1

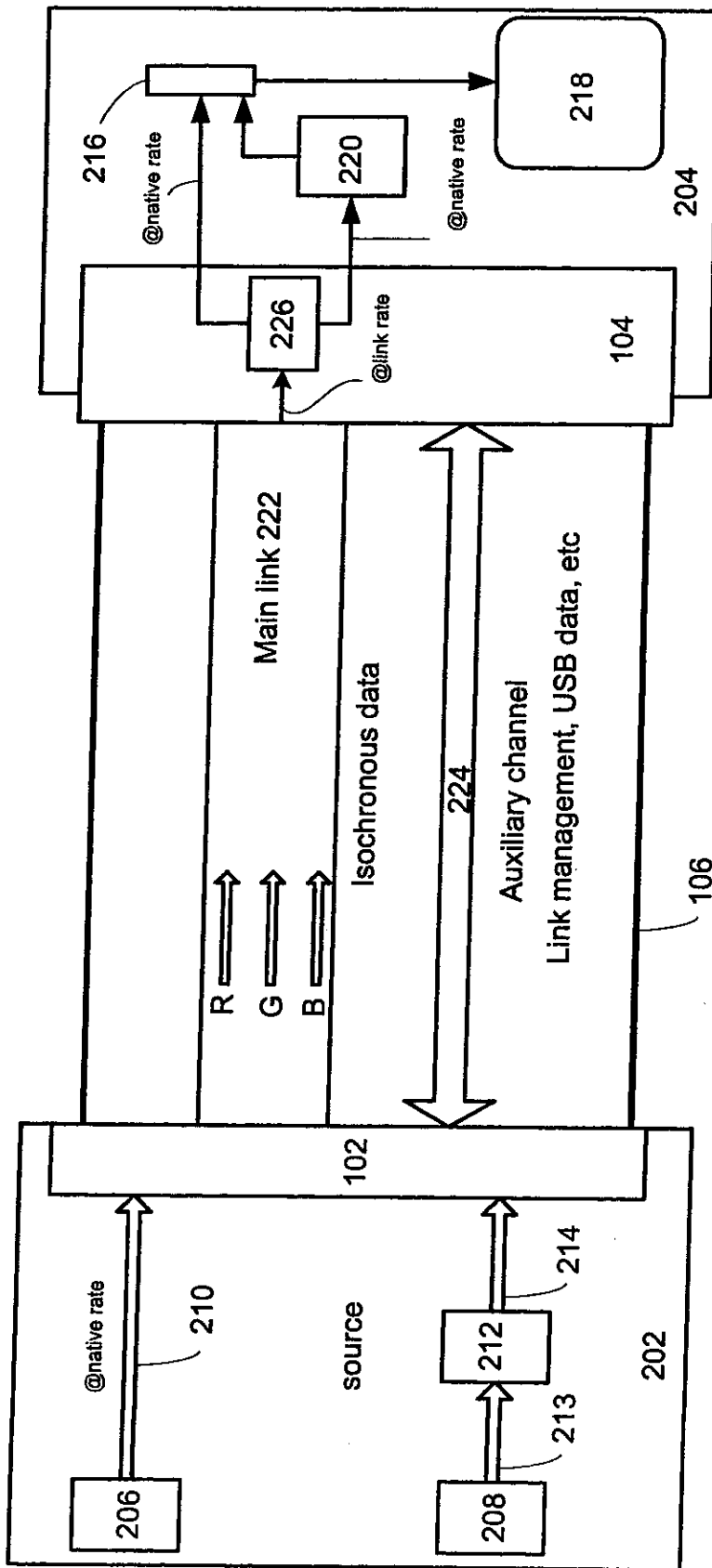


Fig. 2A

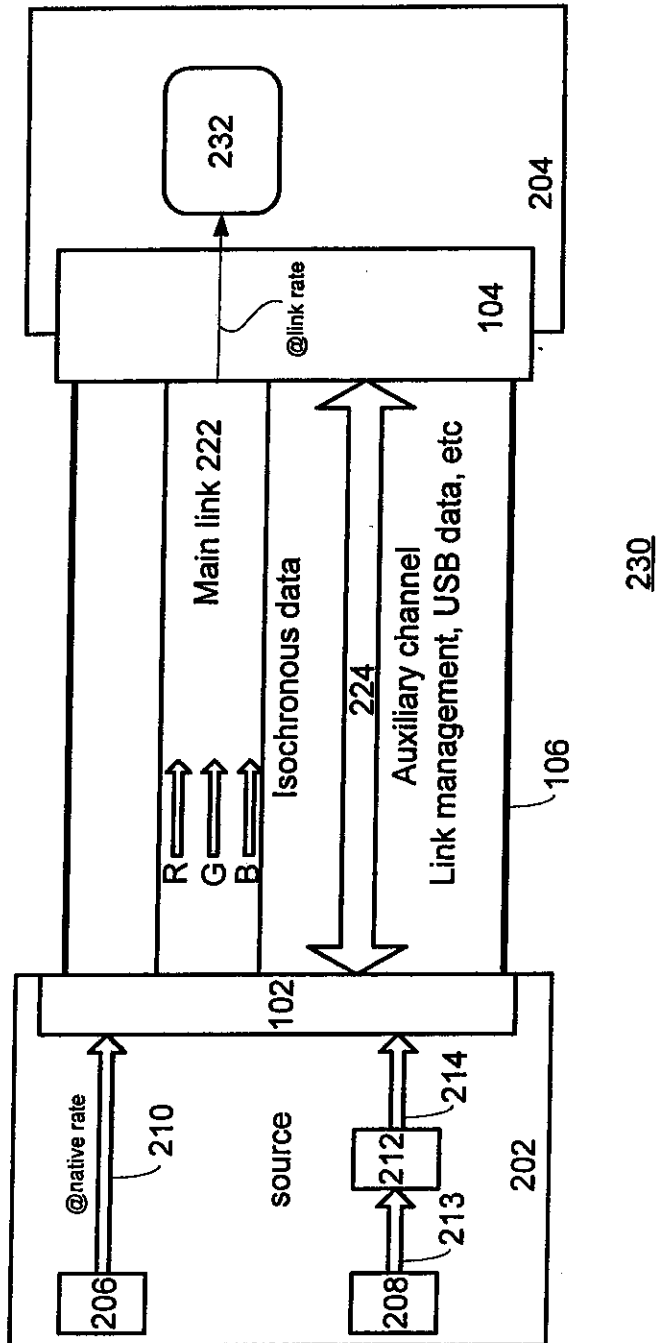


Fig. 2B

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

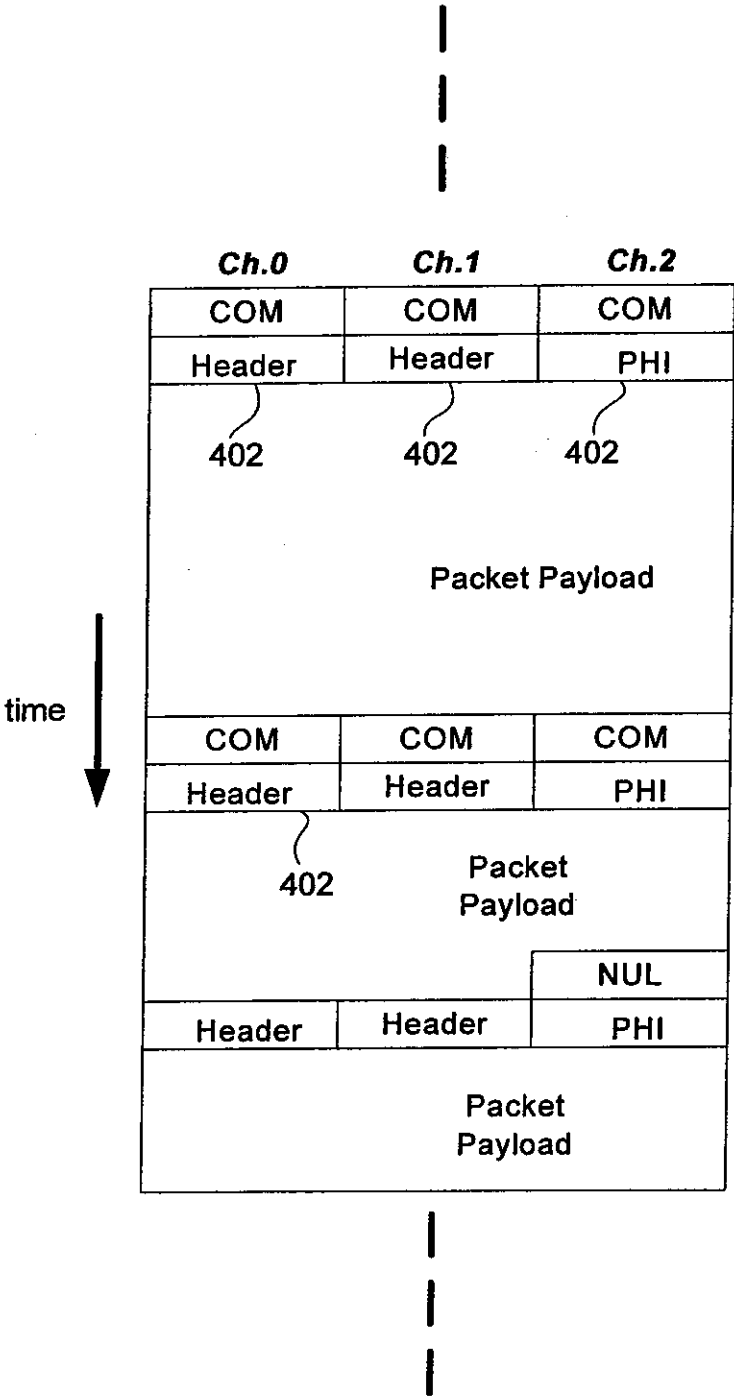


Fig. 4A

Main Link Packet Format

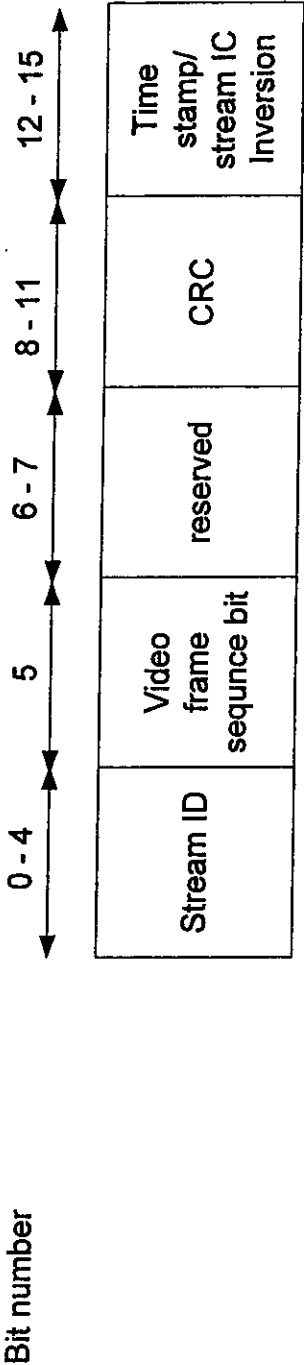
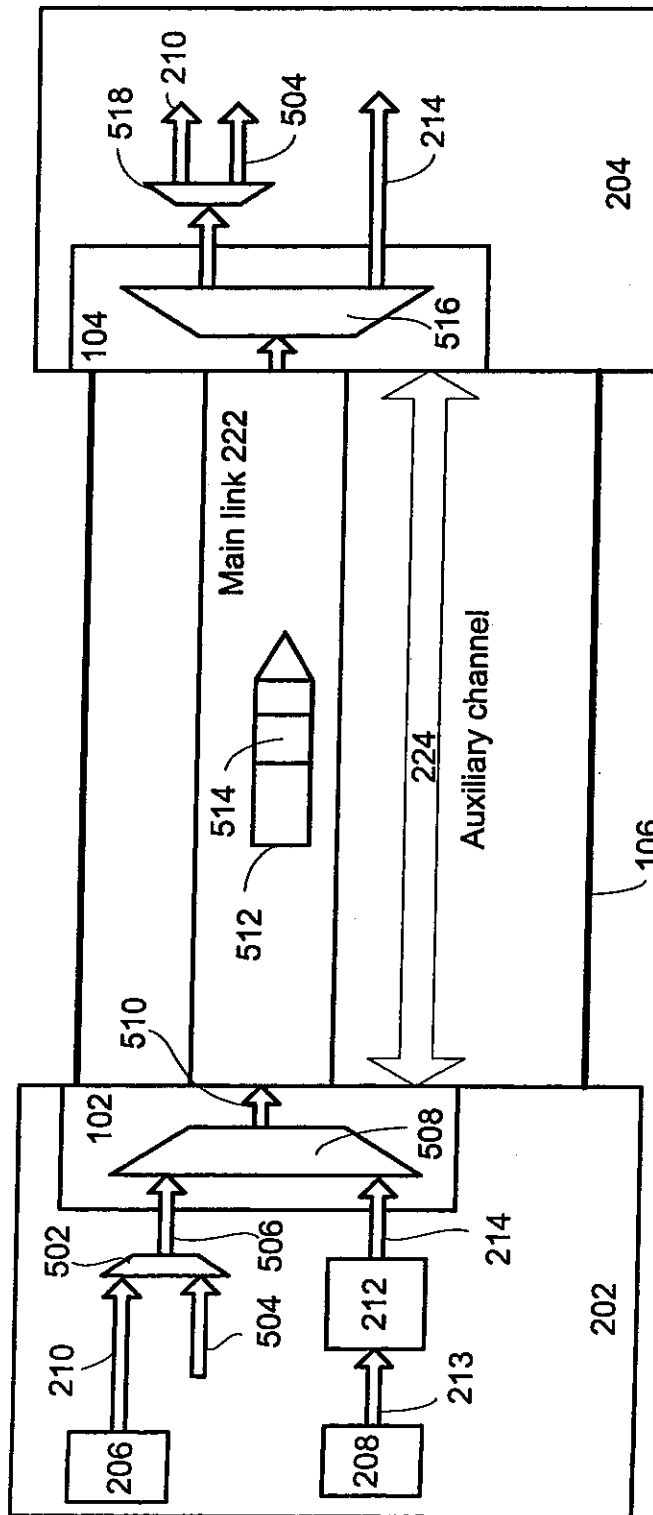


Fig. 4B



500

Fig. 5A

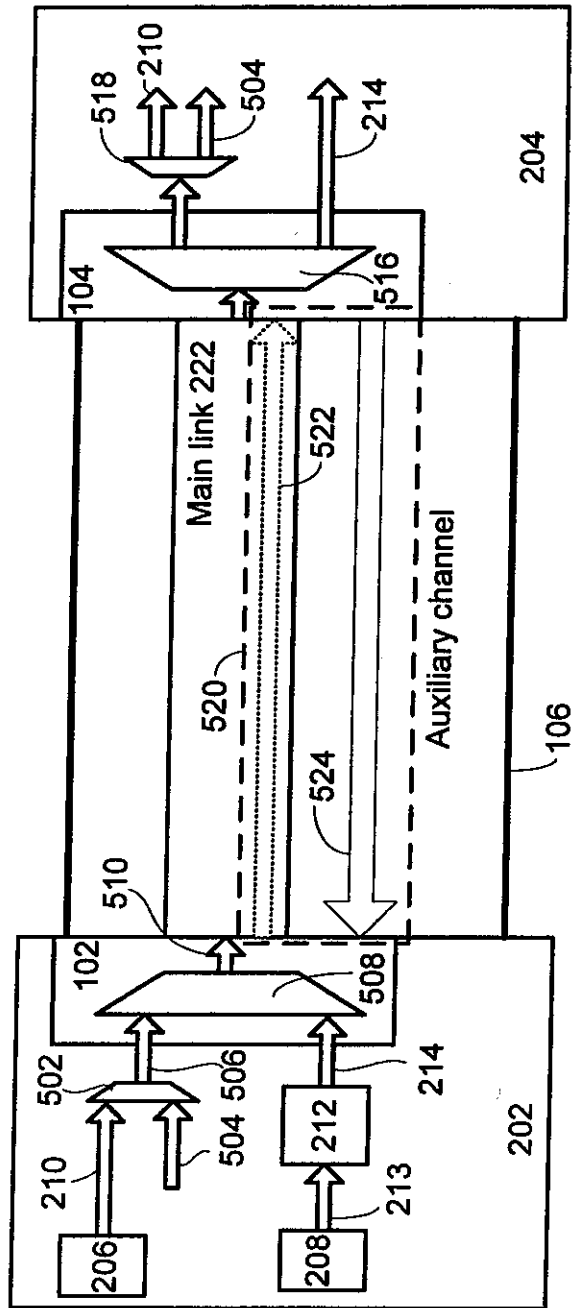


Fig. 5B

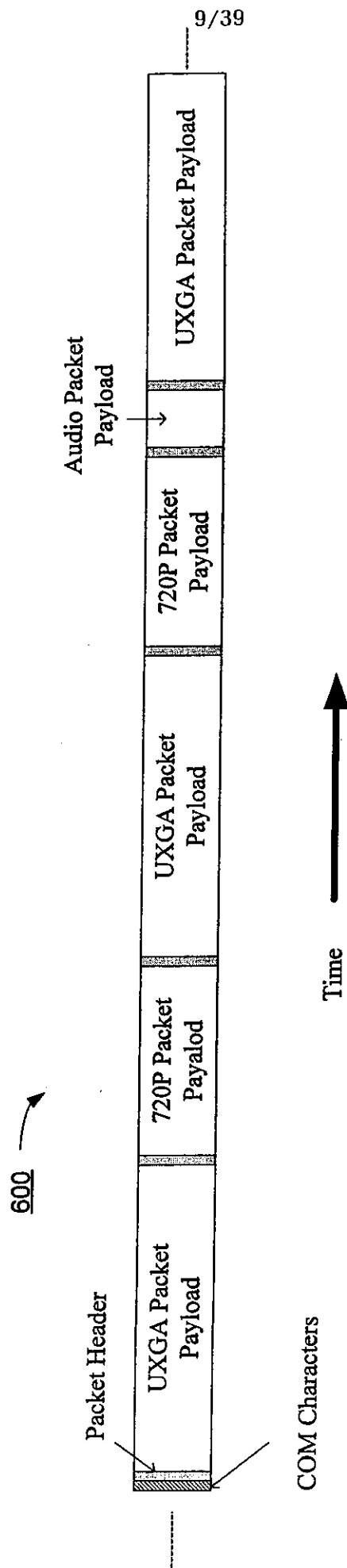


Fig. 6

High-level diagram of link traffic example with three streams

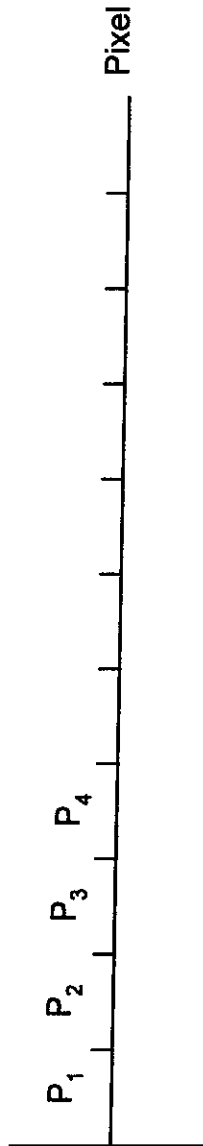
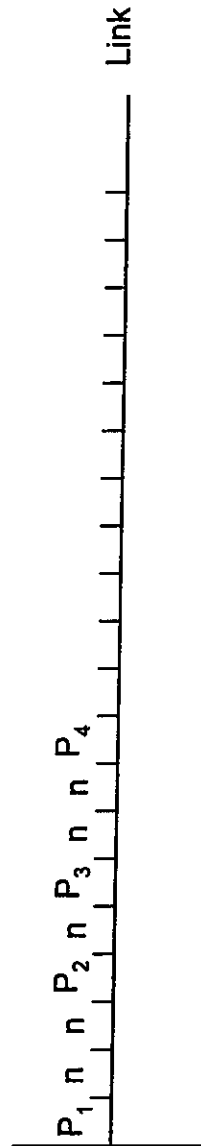


FIG. 7



$n = \text{null}$

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

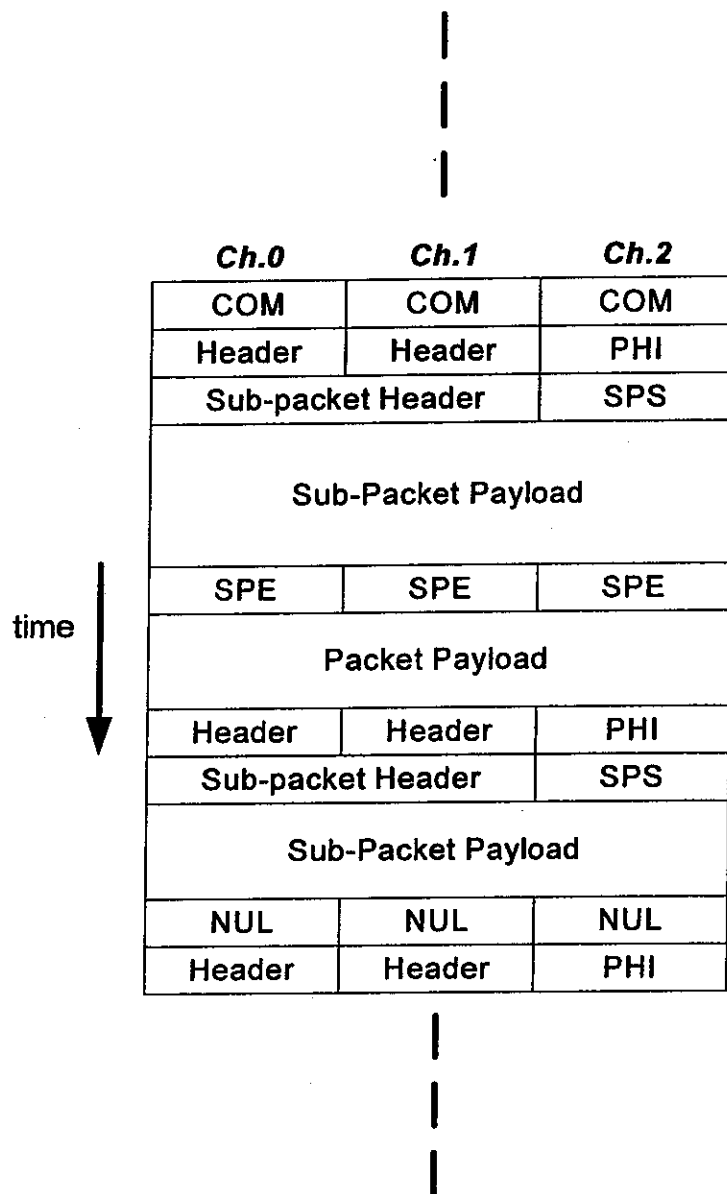


Fig. 9B

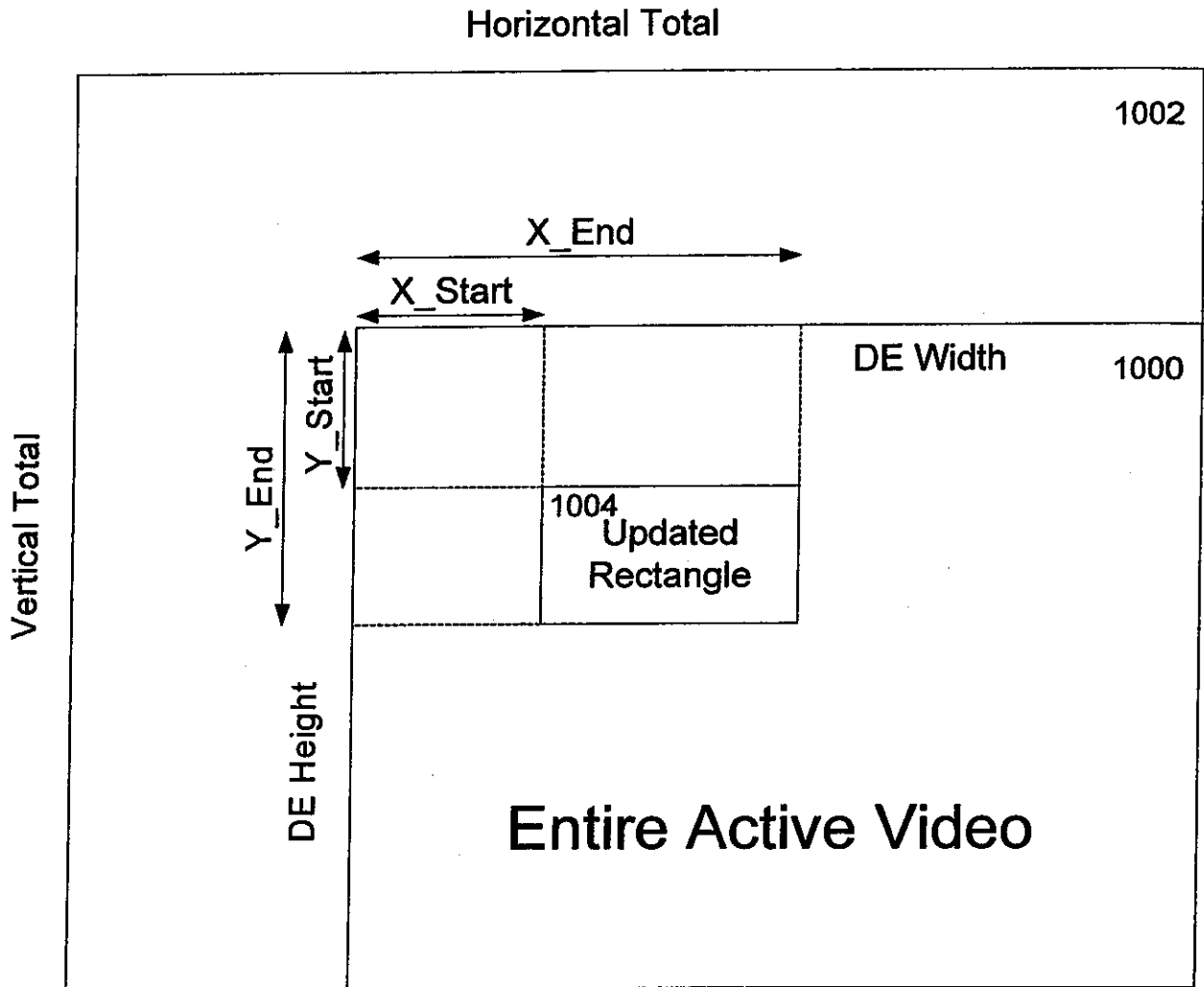


Fig. 10

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

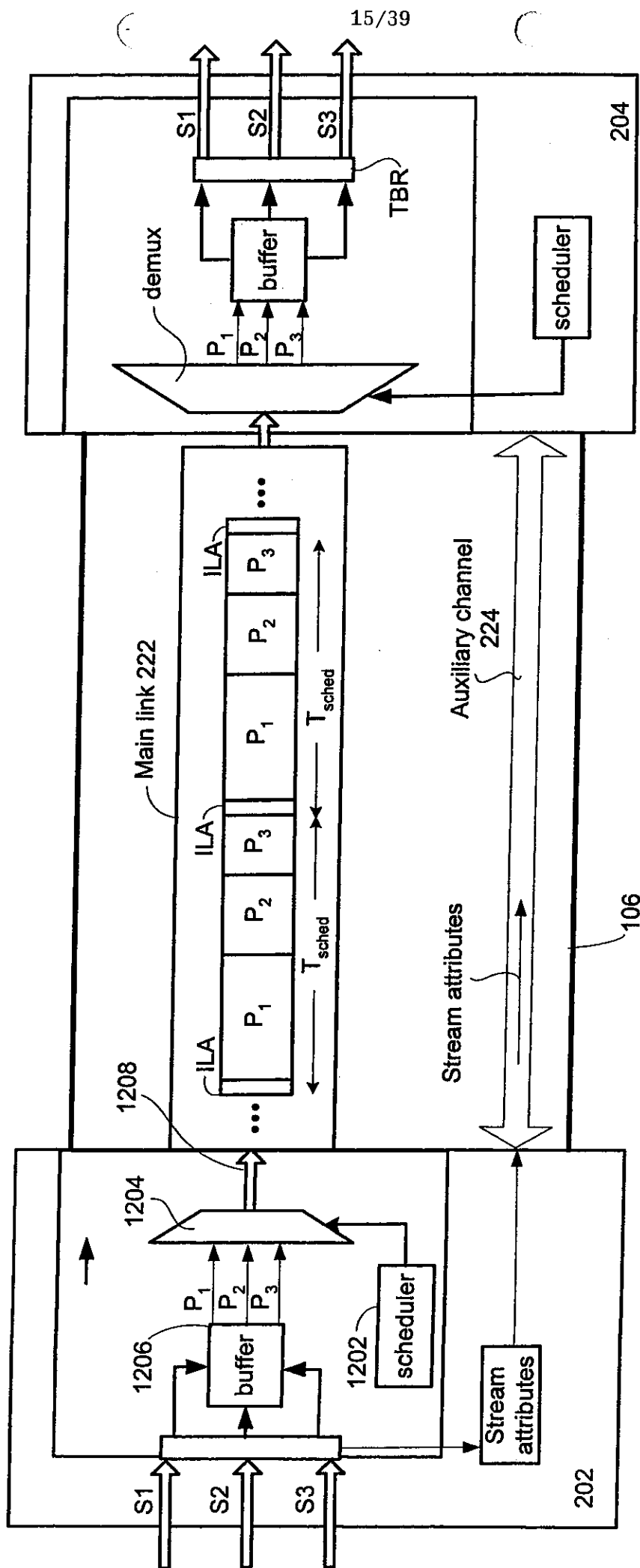


Fig. 12

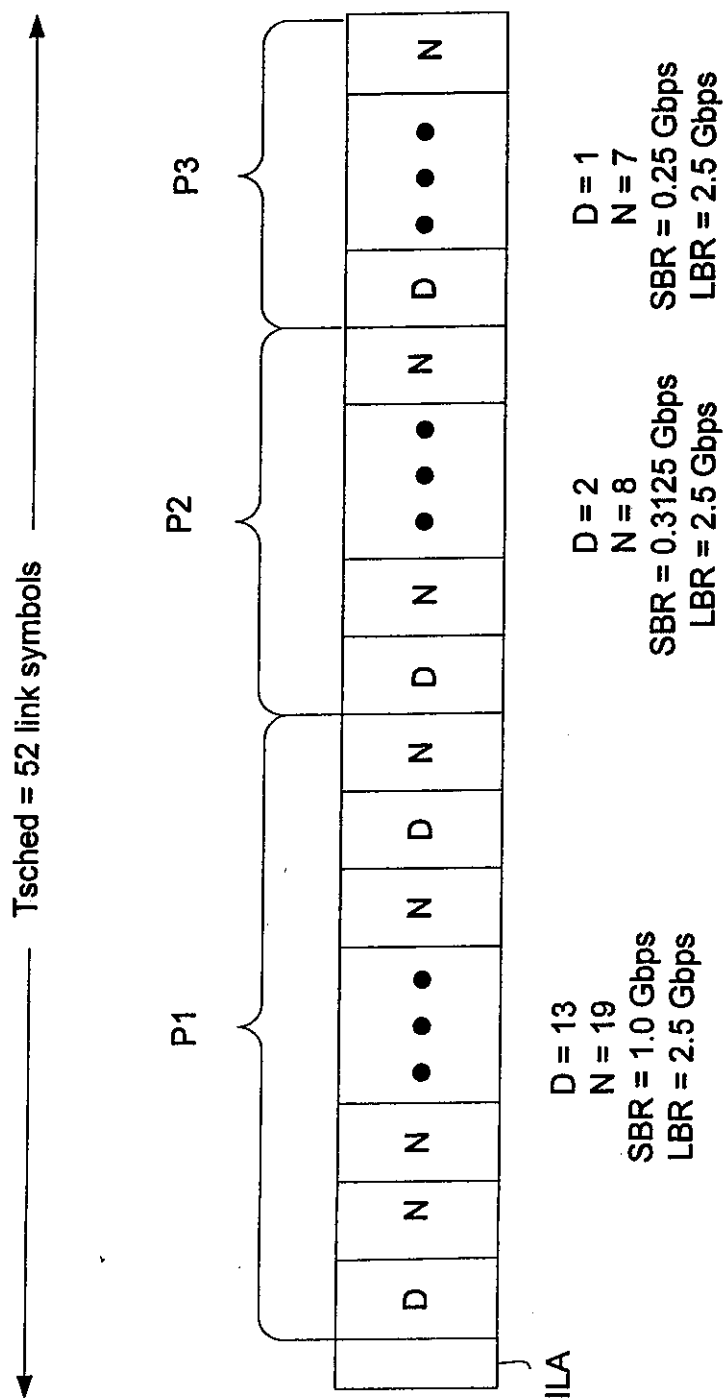


Fig. 13

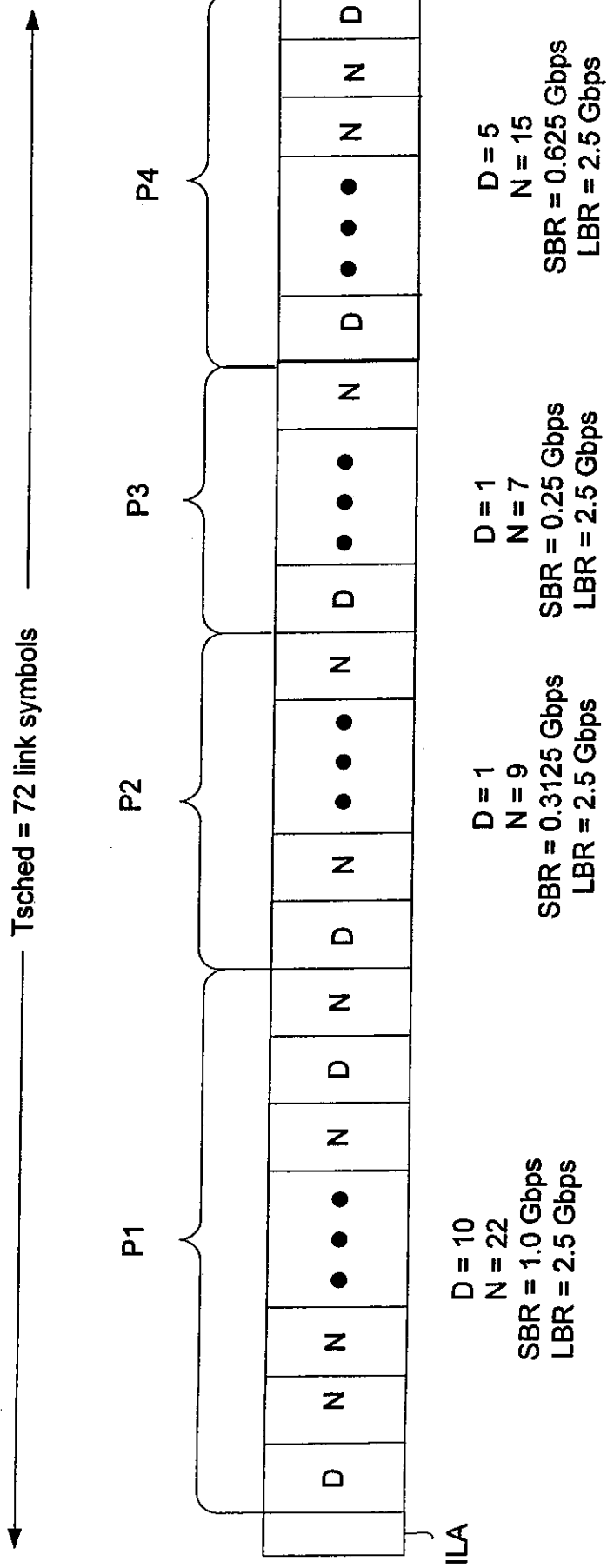


Fig. 14

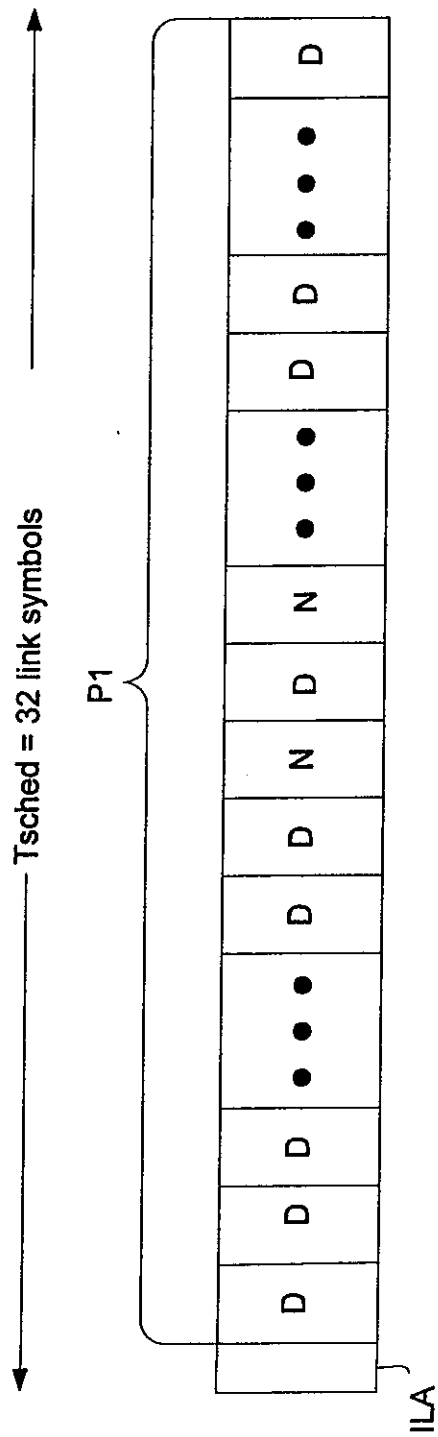


Fig. 15

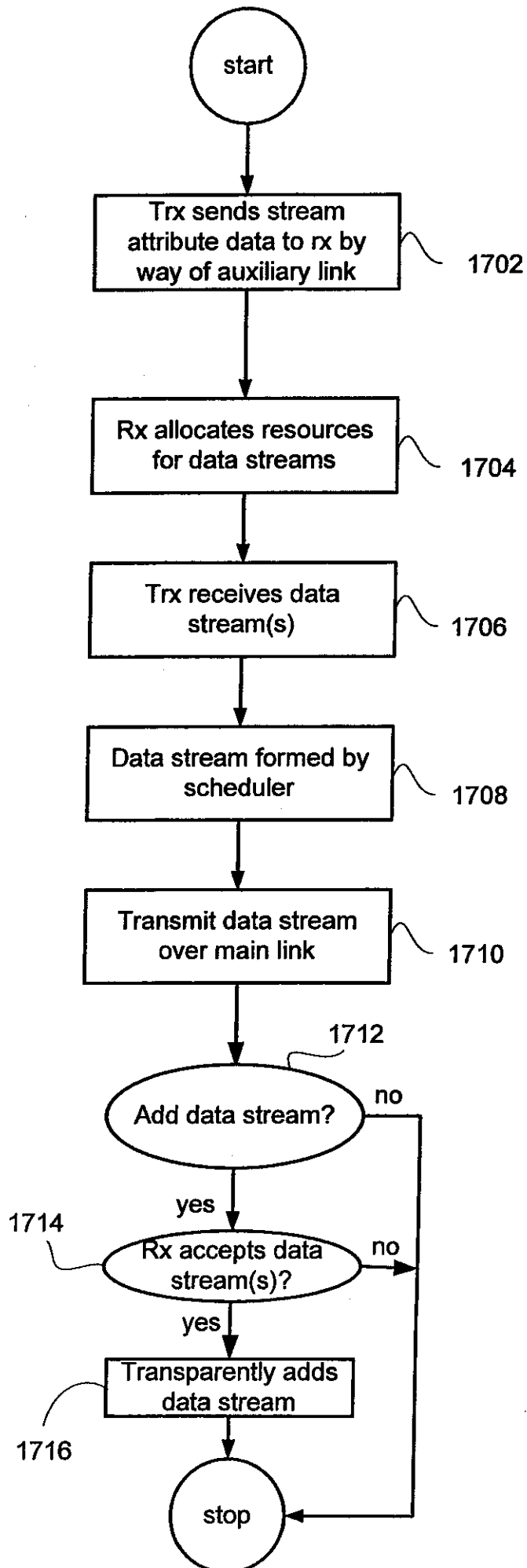


Fig. 17

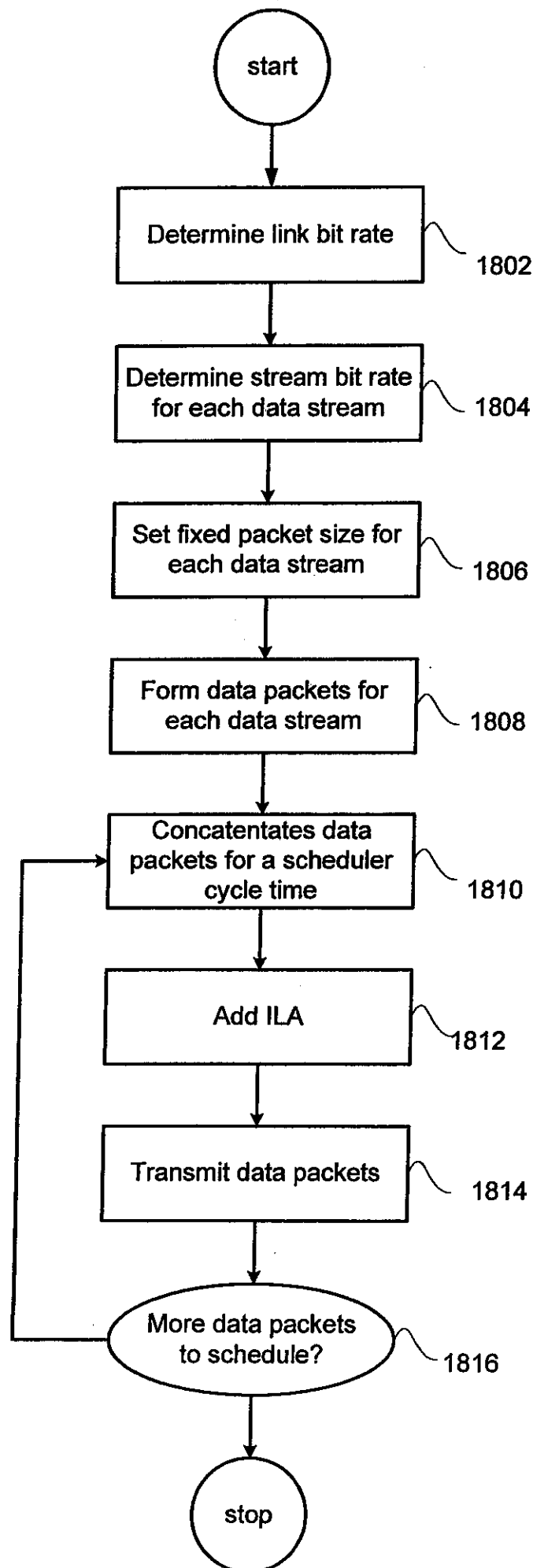
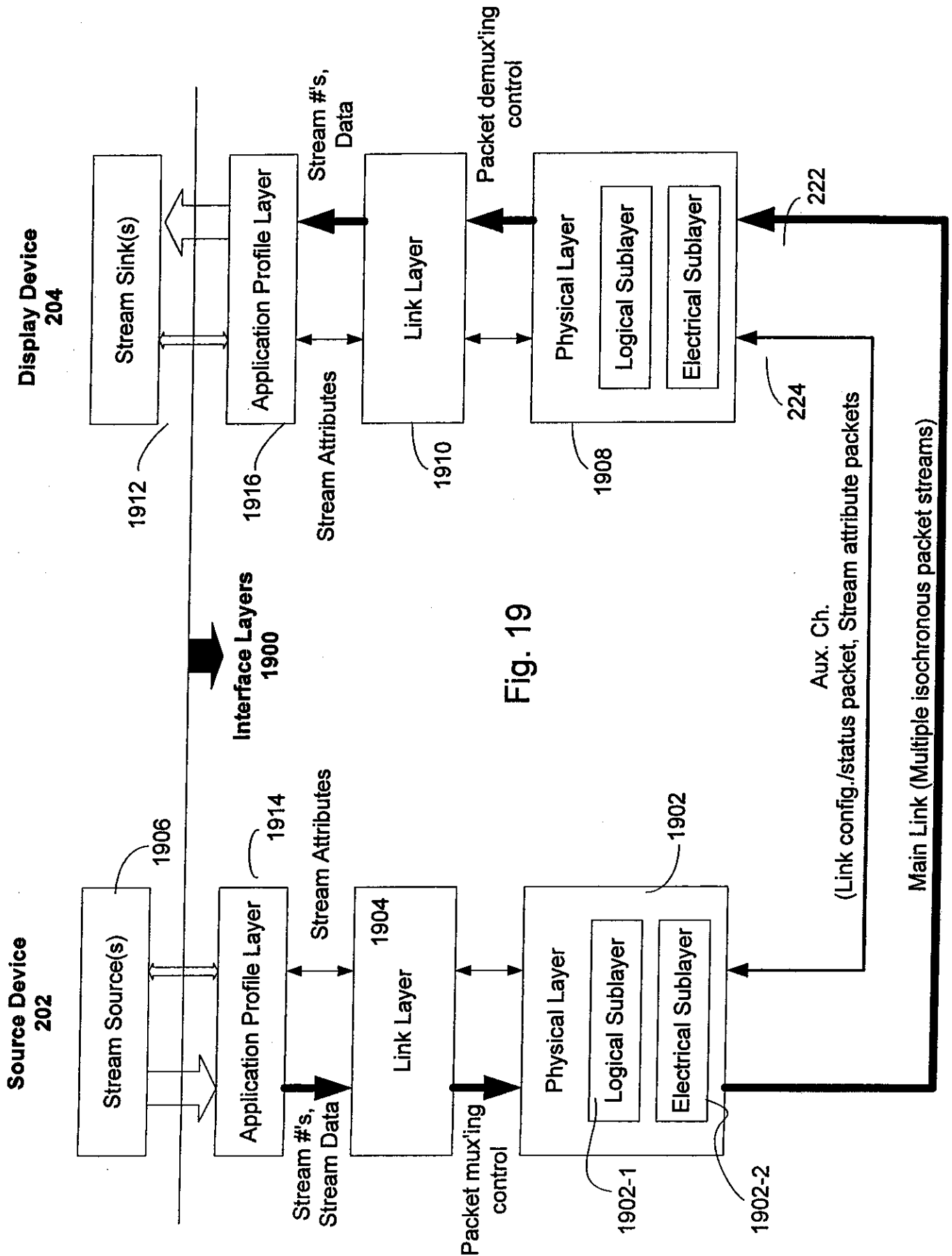


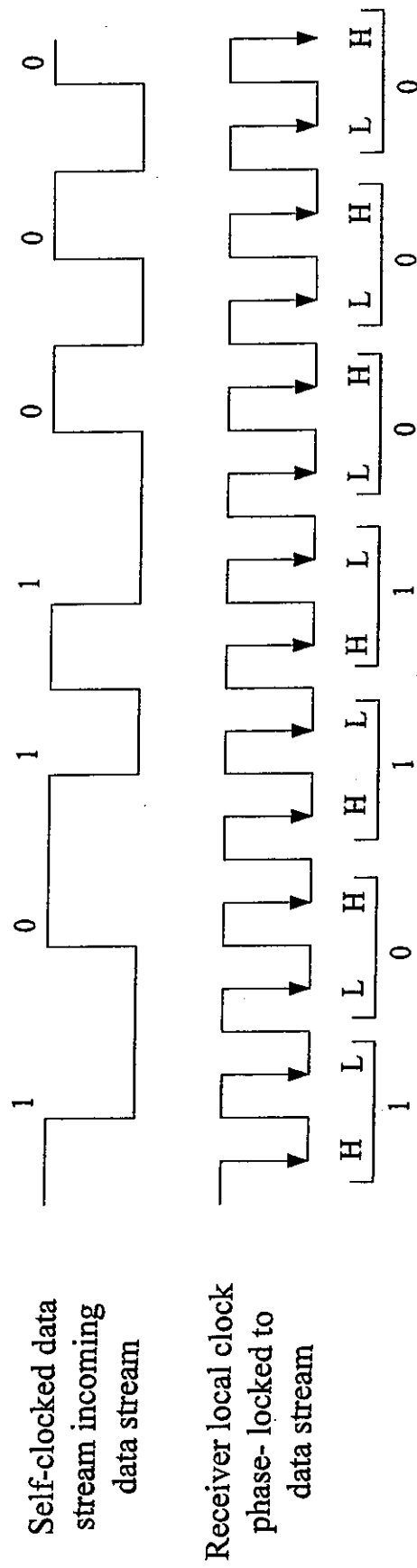
Fig. 18



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. 20



A Manchester II-Coded Stream

Fig. 21

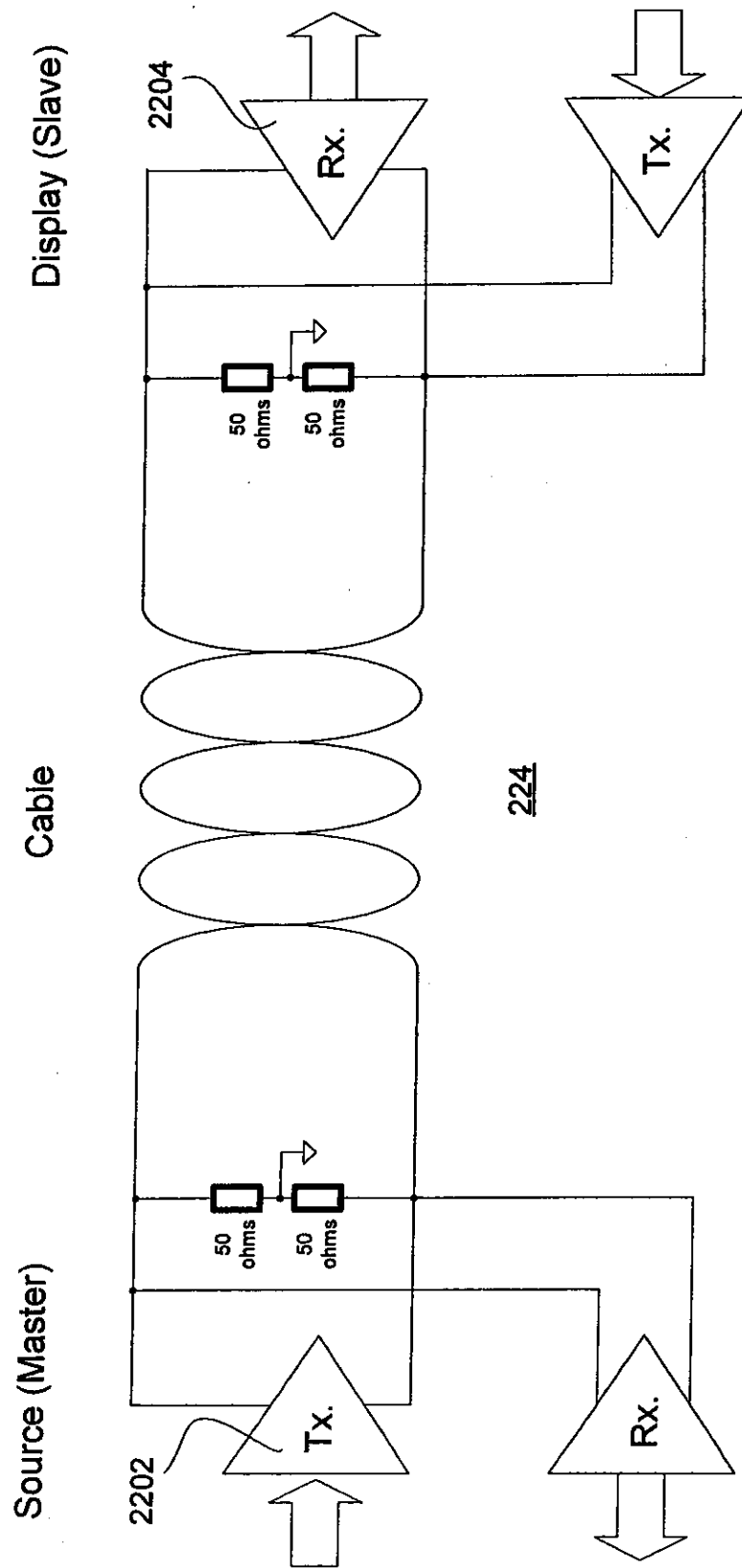
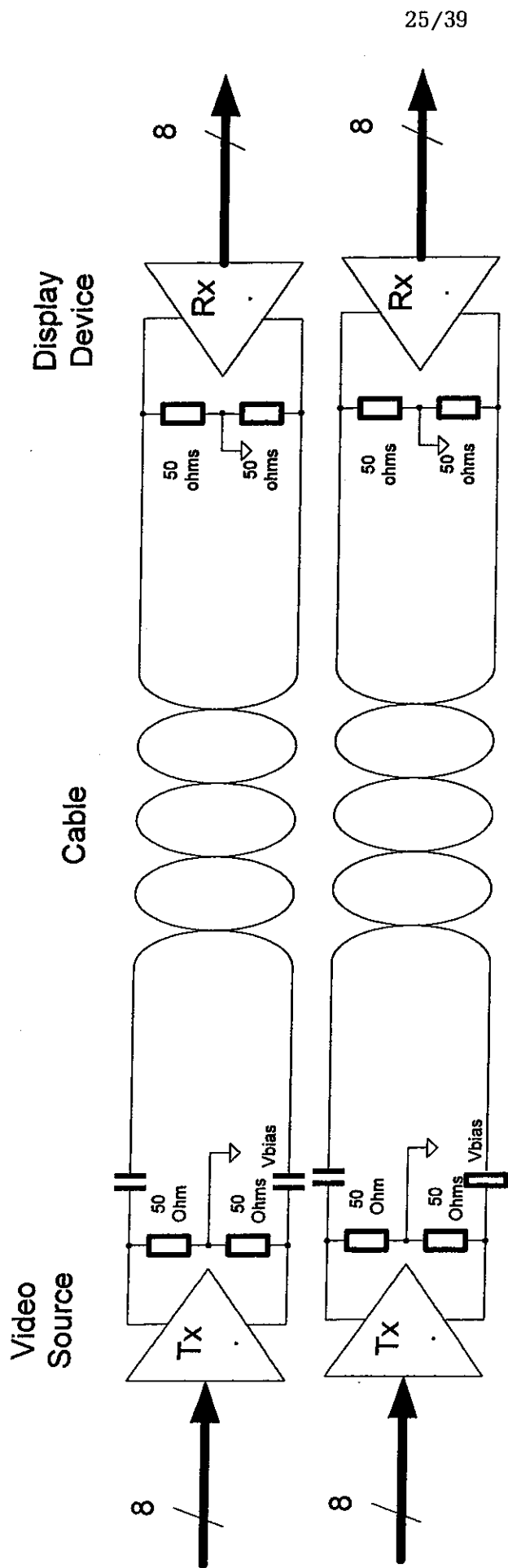


Fig. 22



222

Fig. 23

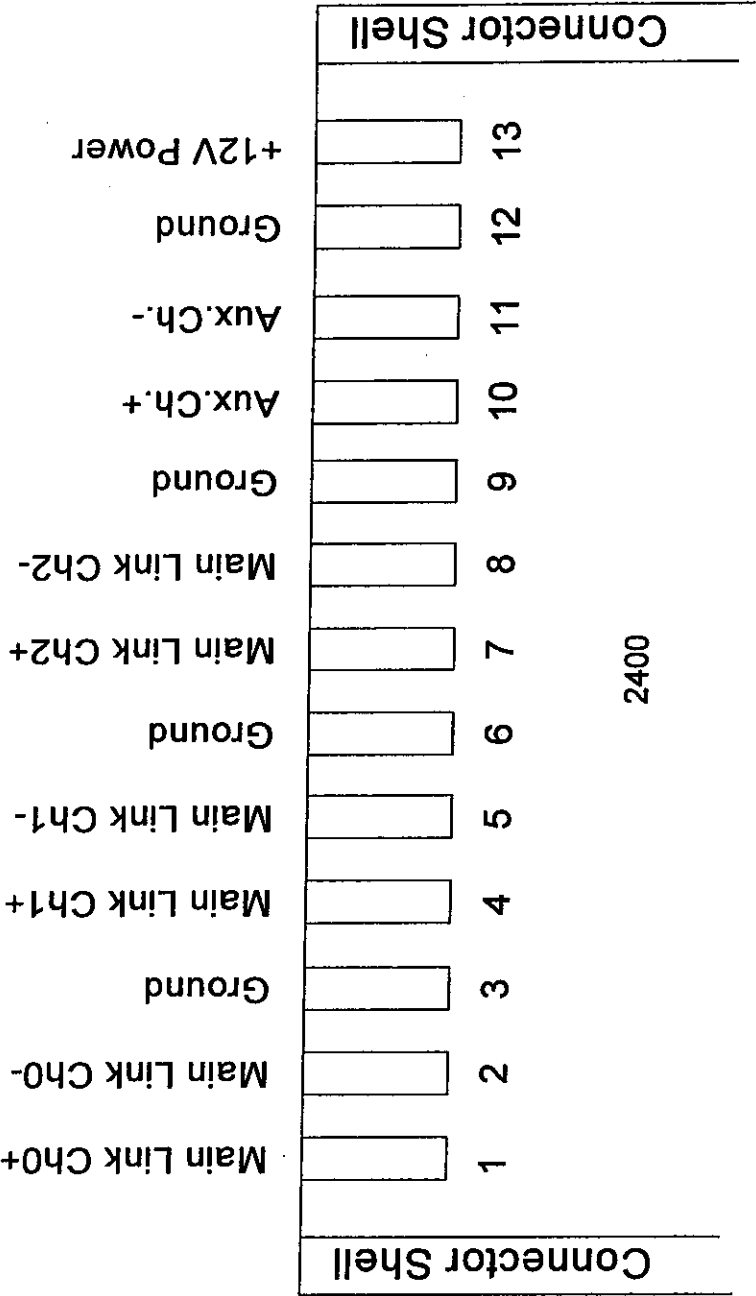


Fig. 24

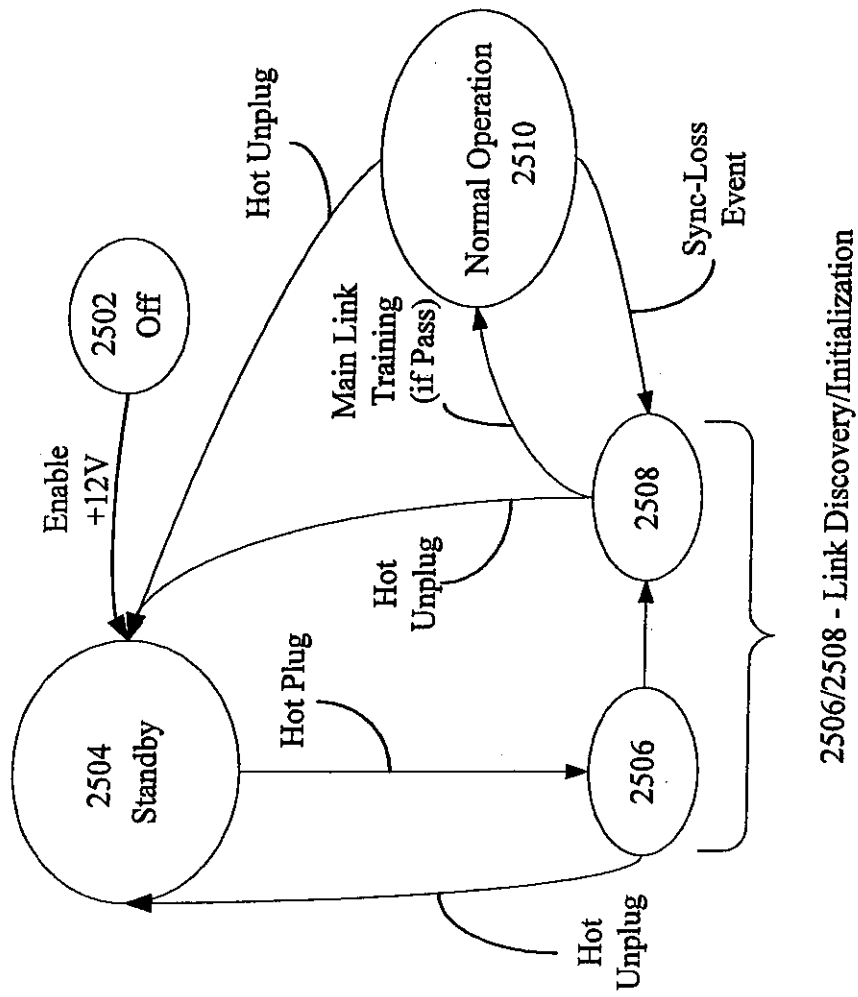


Fig. 25

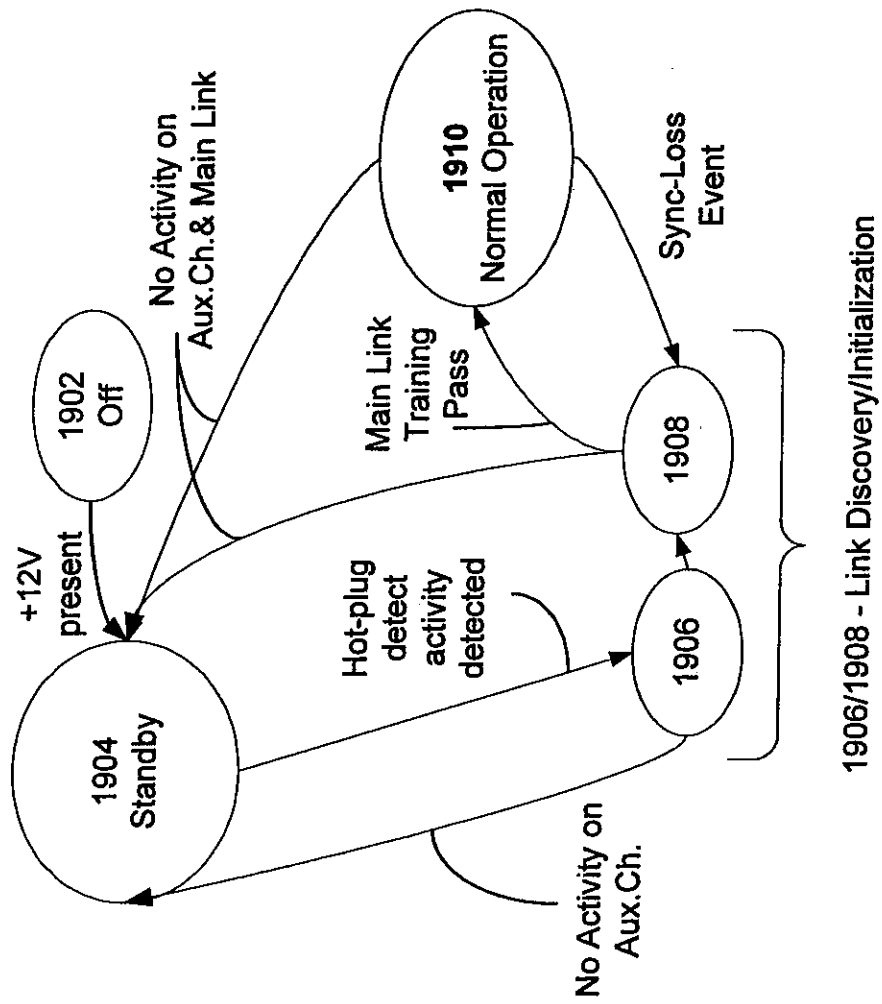
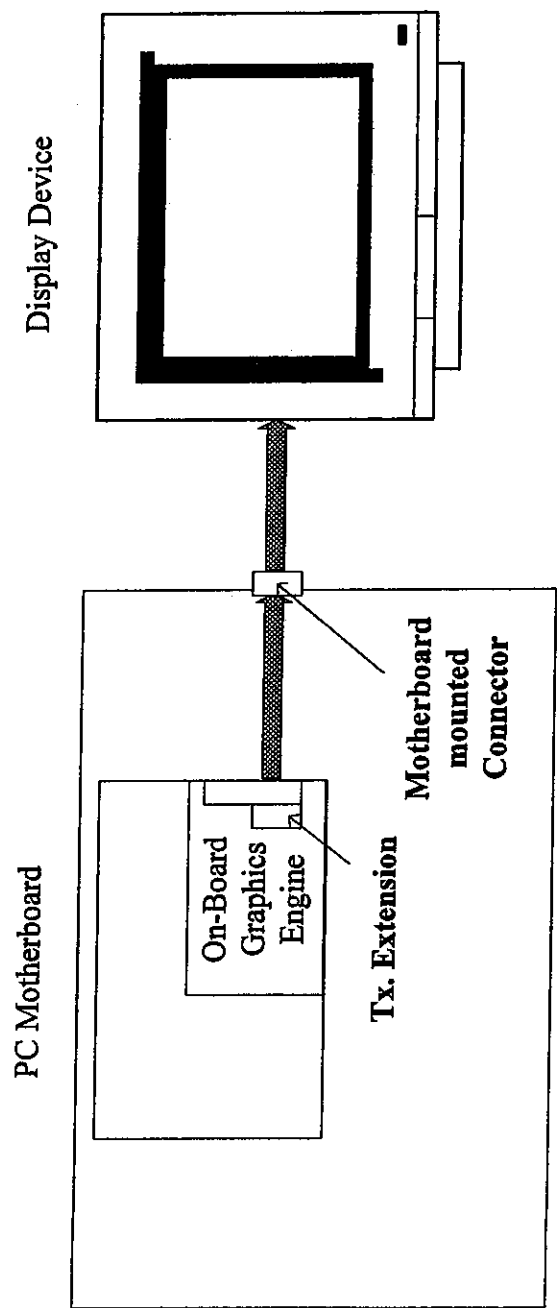
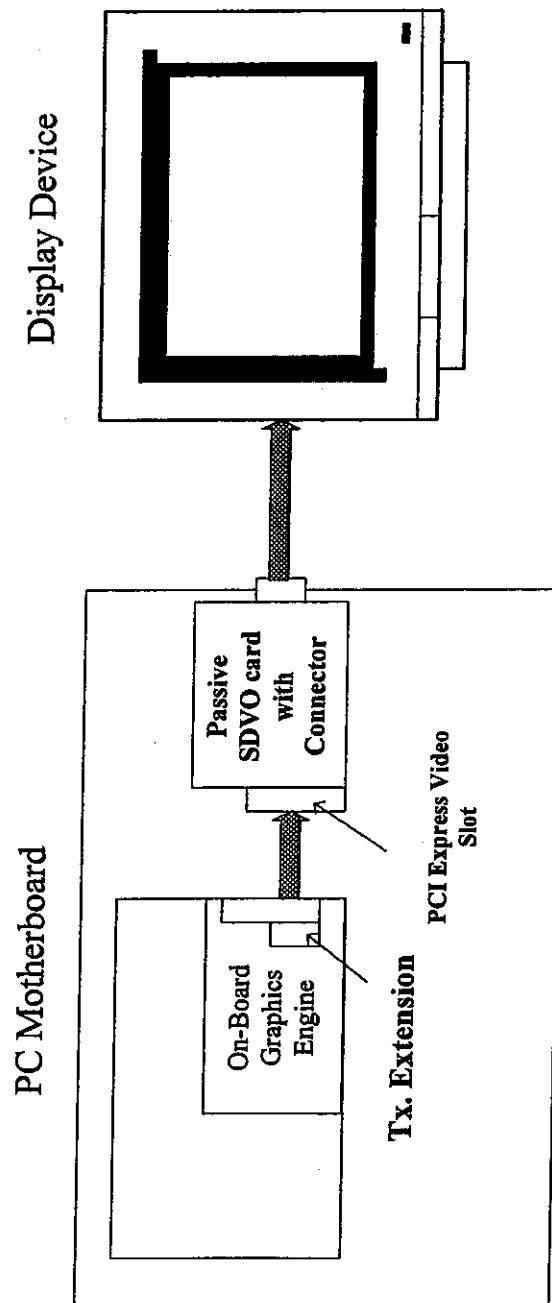


Fig. 26



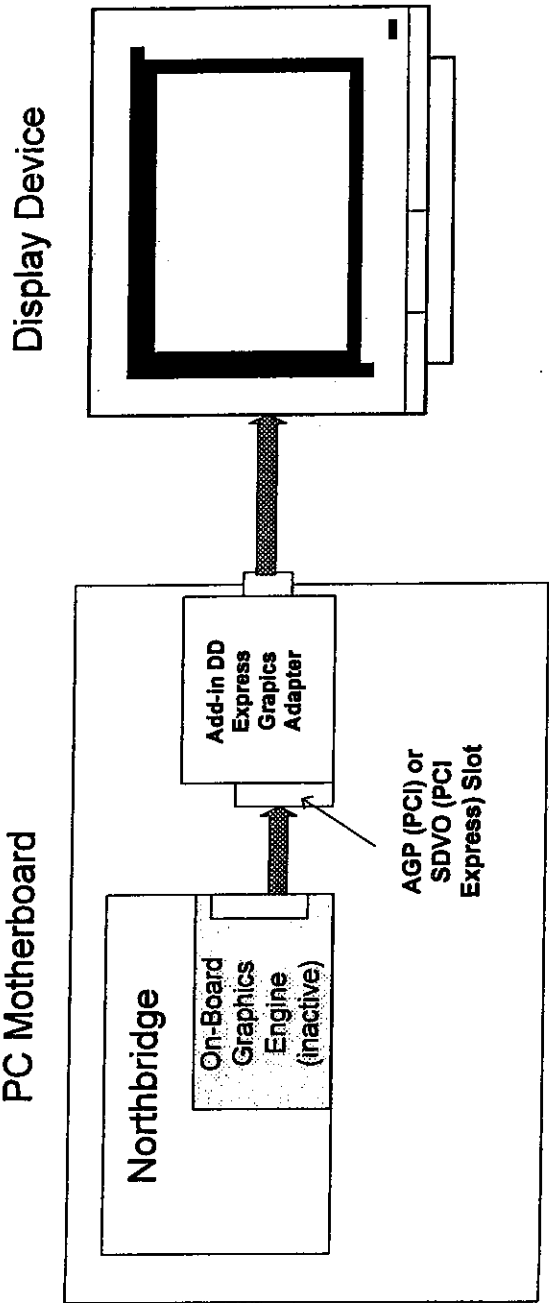
**PCI EXPRESS MOTHERBOARD WITH DEDICATED DD-
EXPRESS CONNECTOR**

Fig. 27



PCI Express motherboard with passive connector card.

Fig. 28



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

Fig. 29

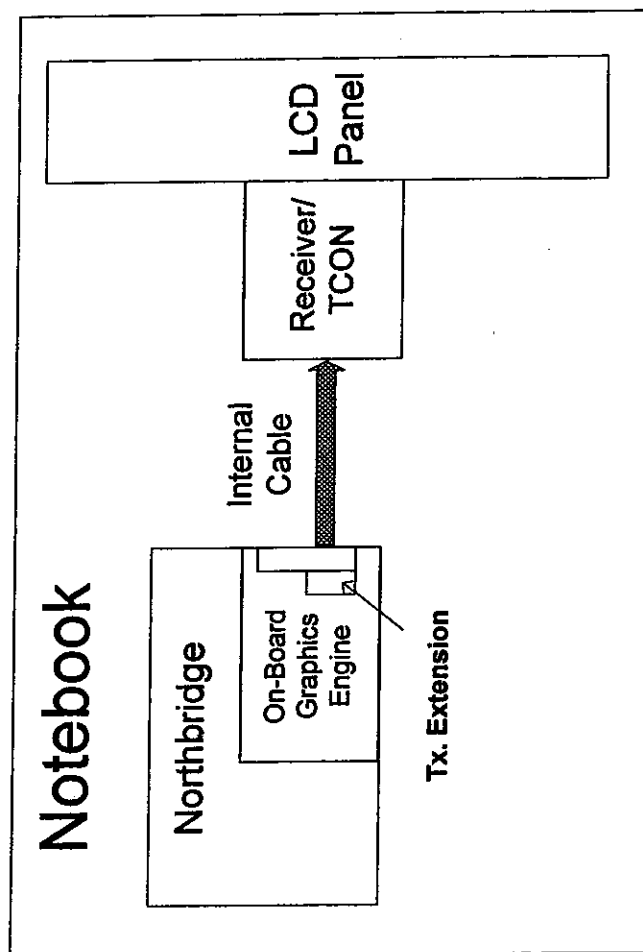
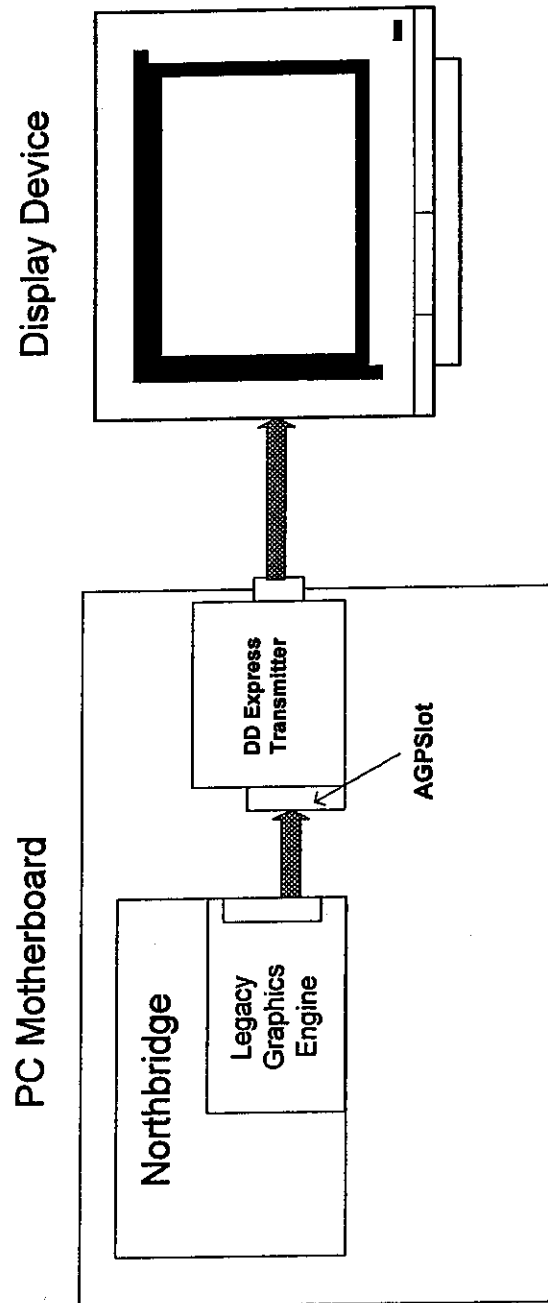


Fig. 30



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

Fig. 31

Fig. 32

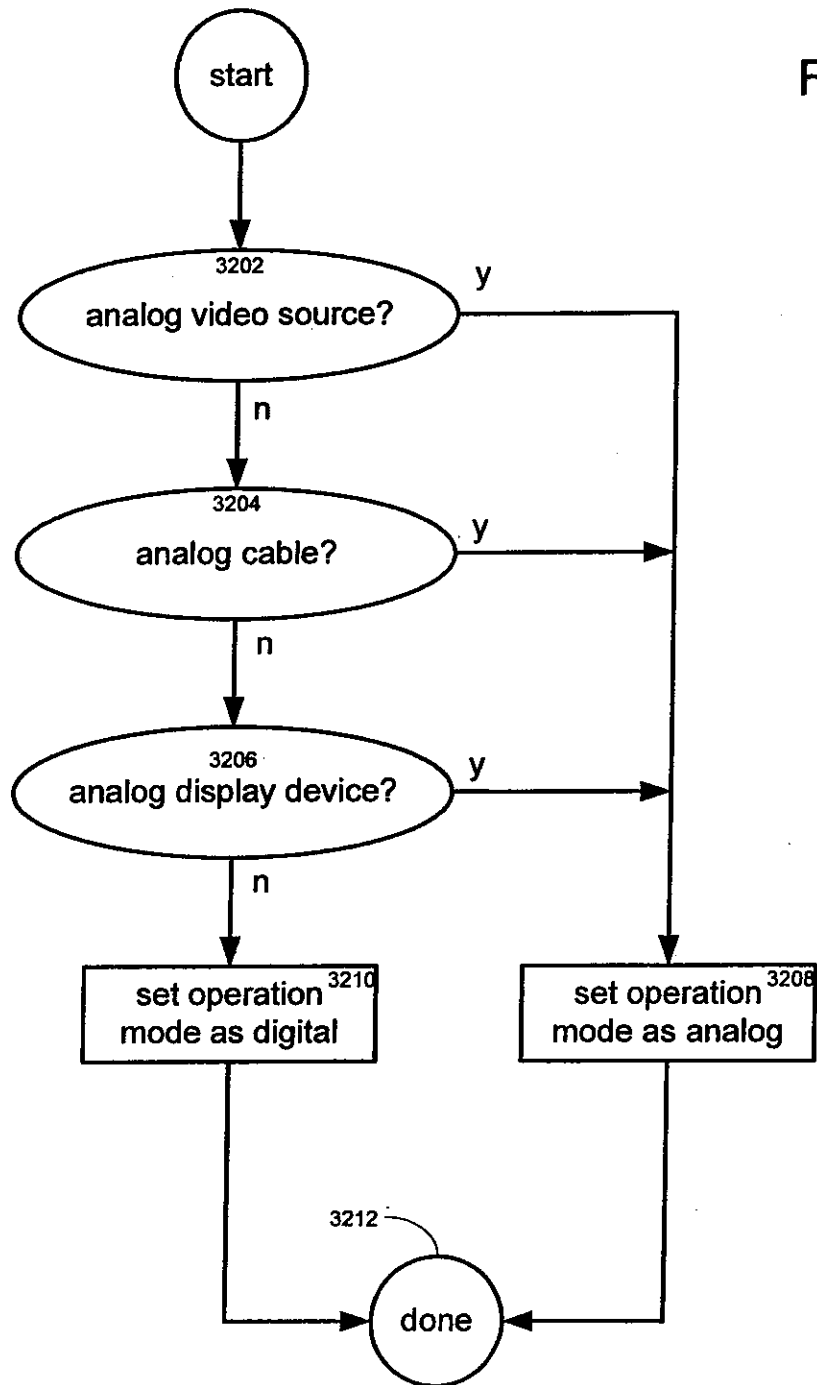
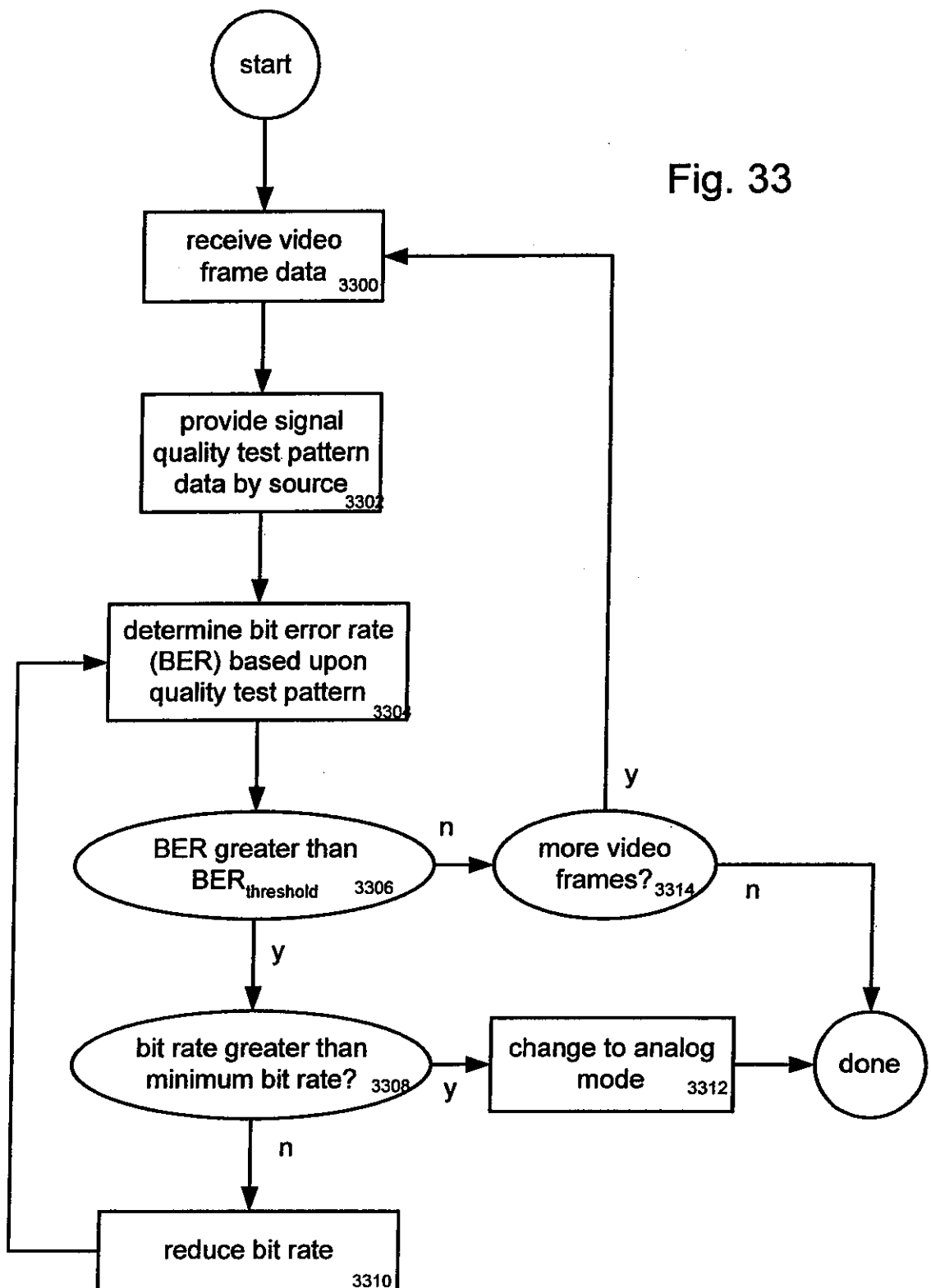


Fig. 33



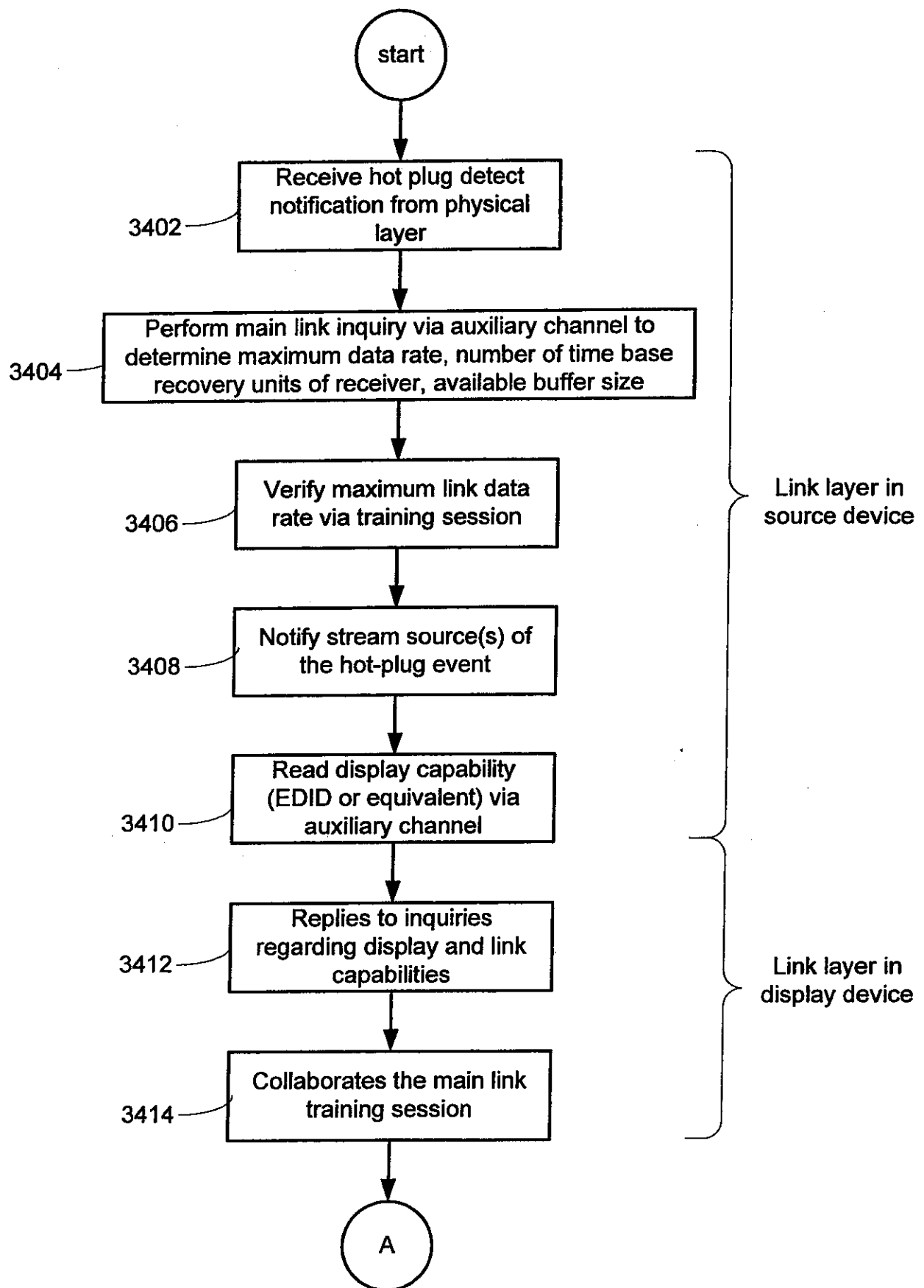


Fig. 34A

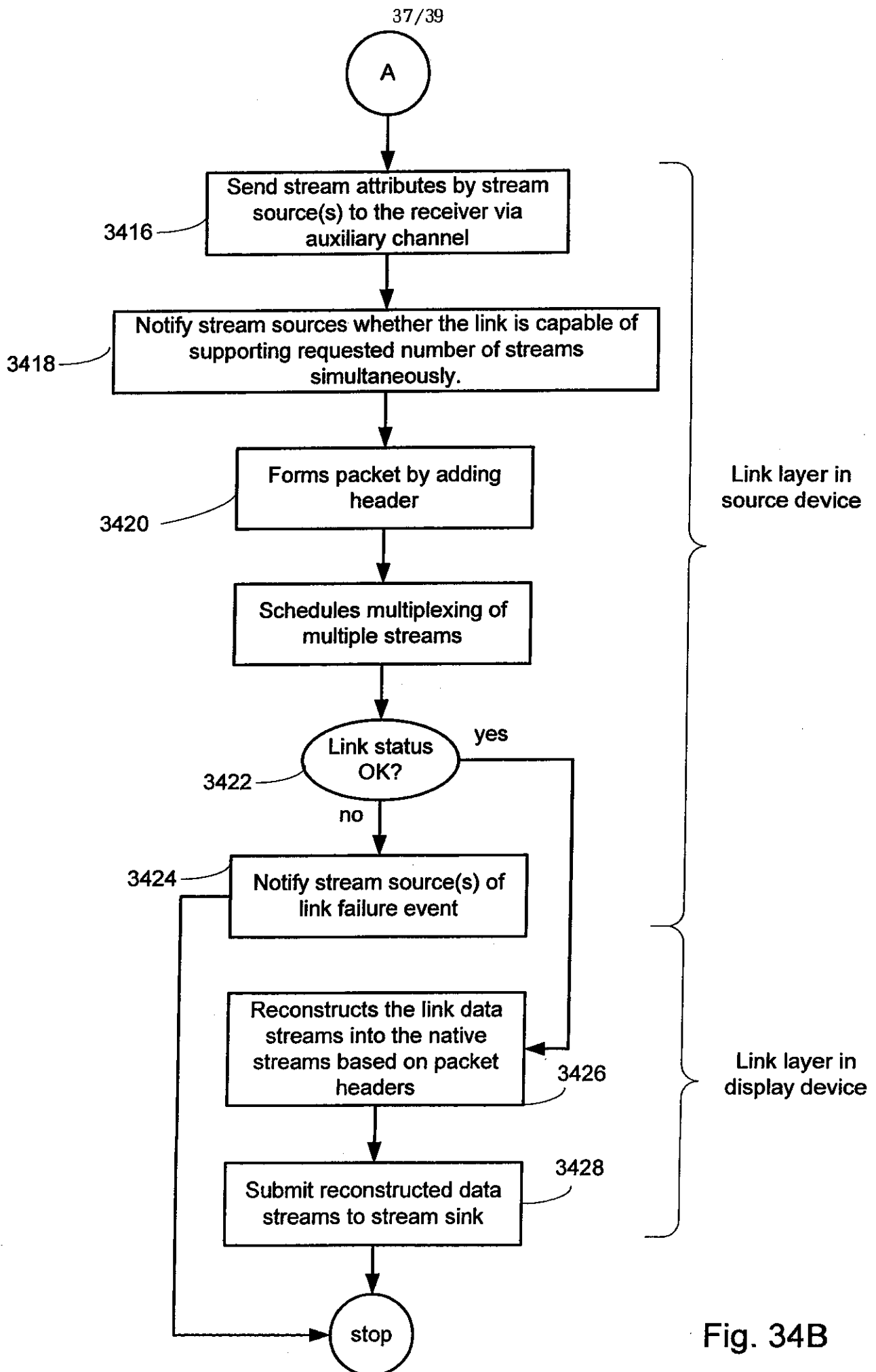


Fig. 34B

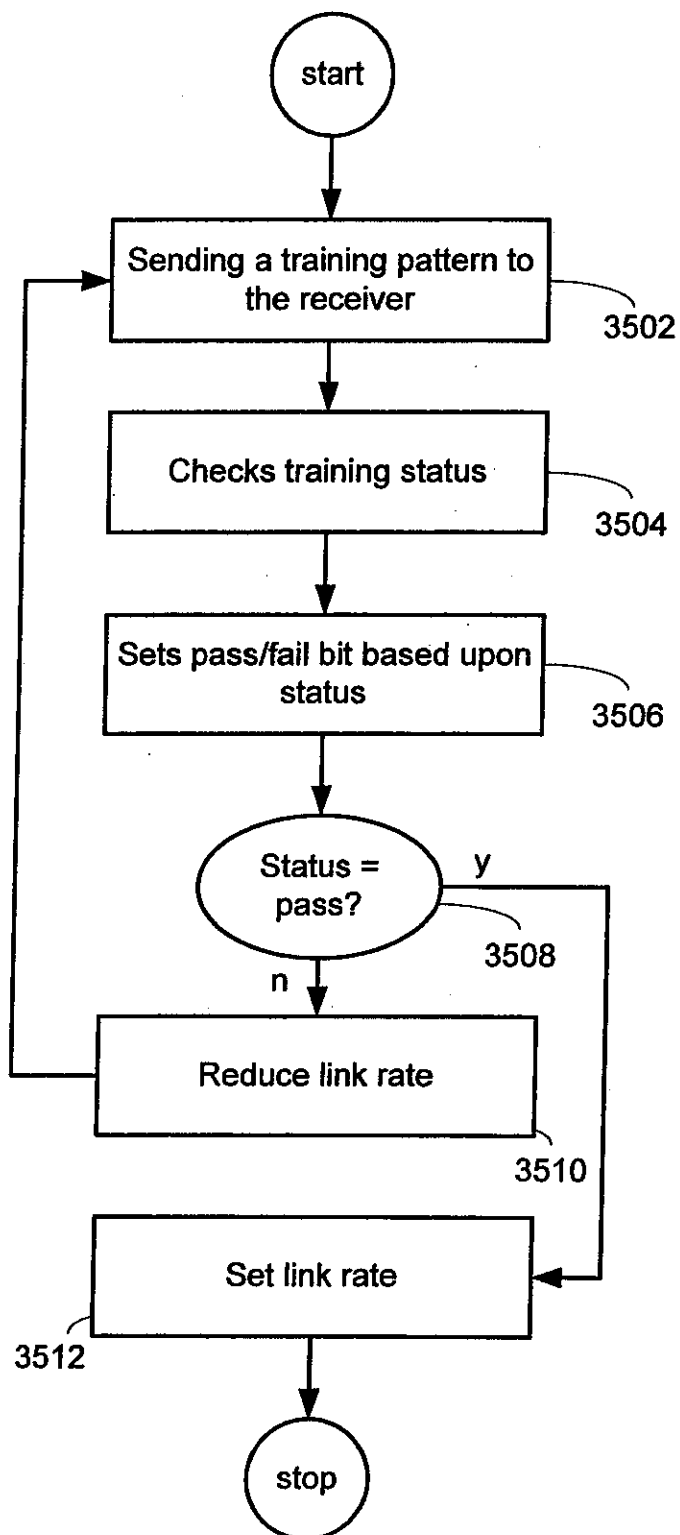


Fig. 35

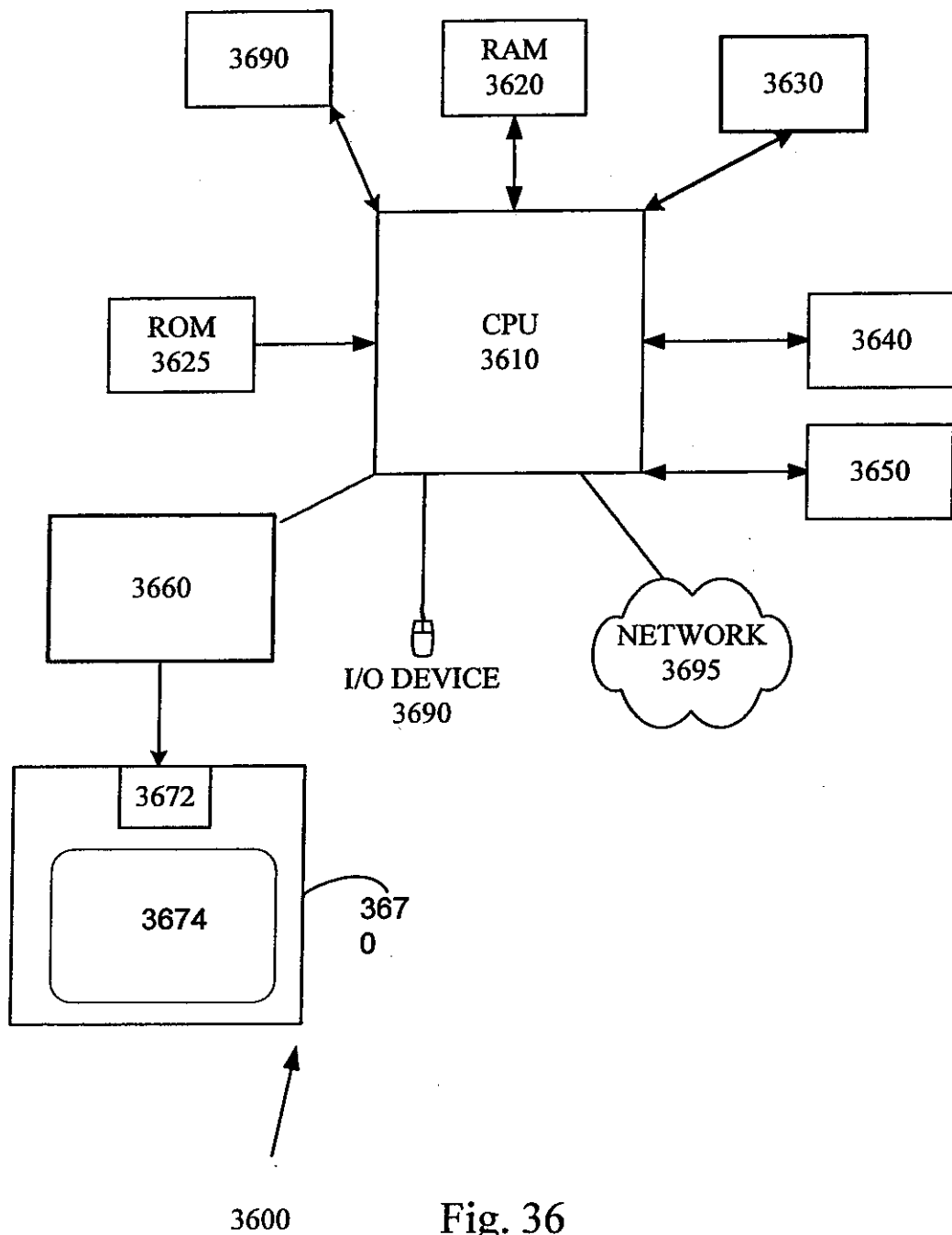


Fig. 36