Fig. 1

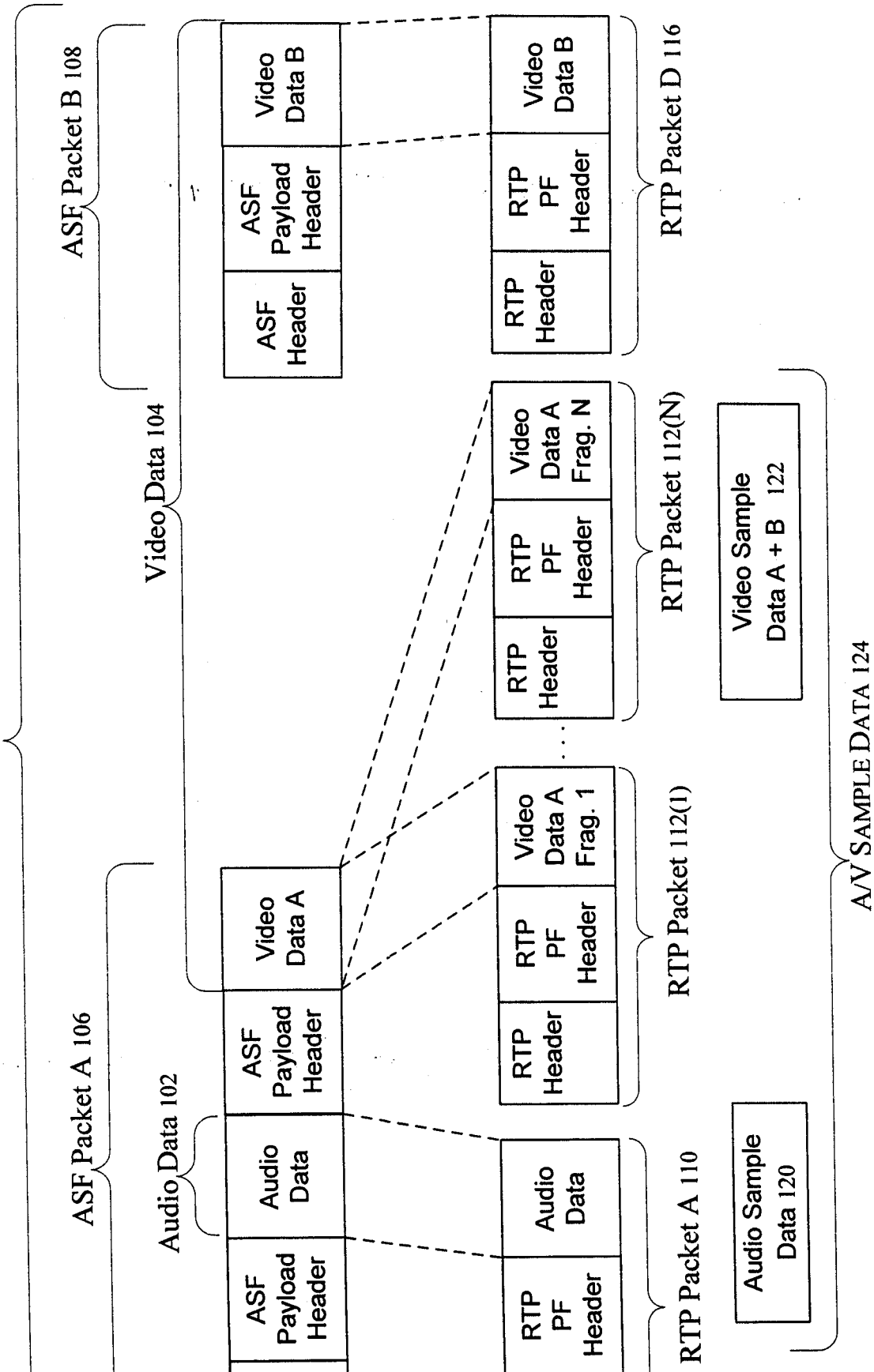
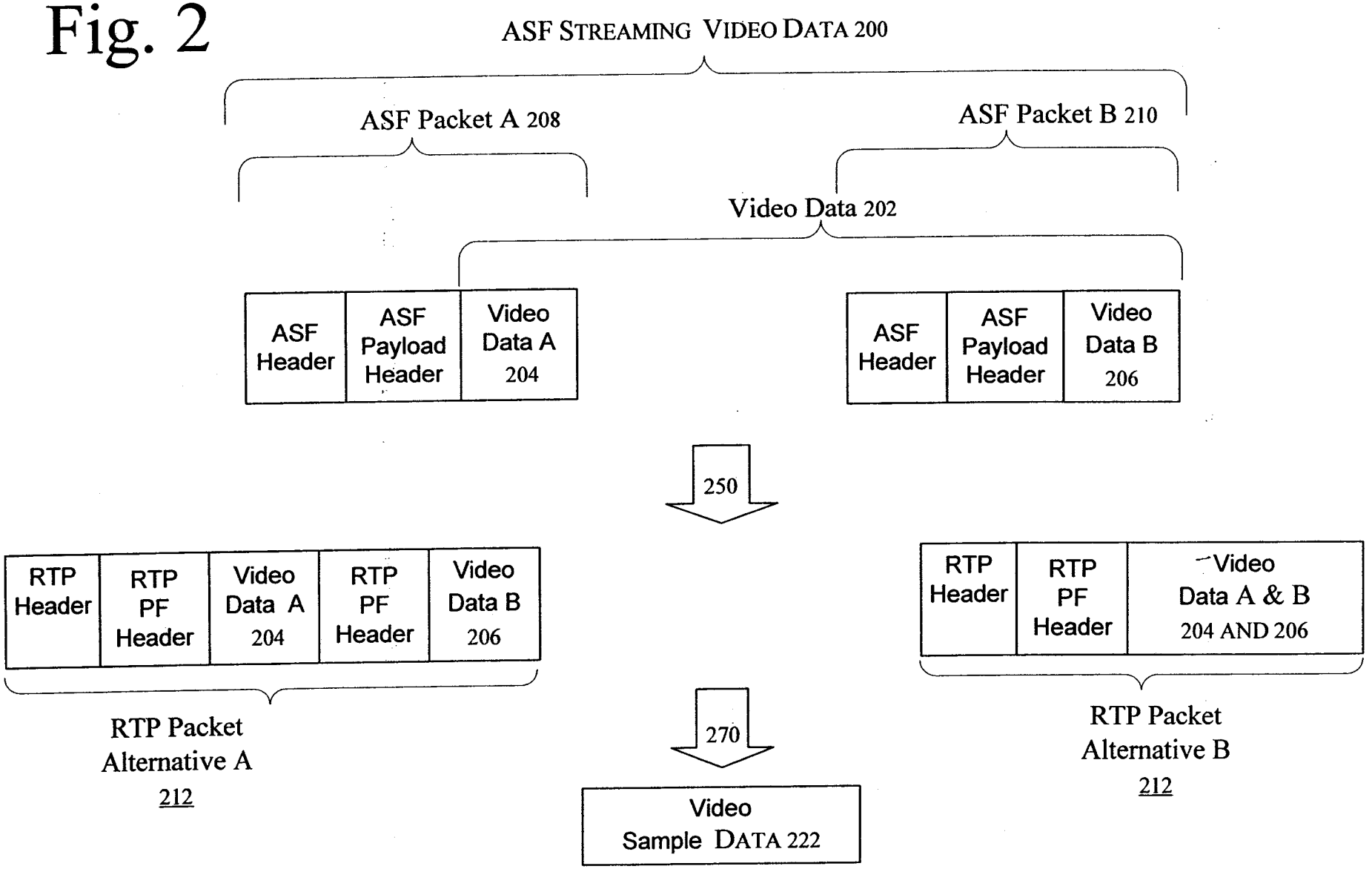
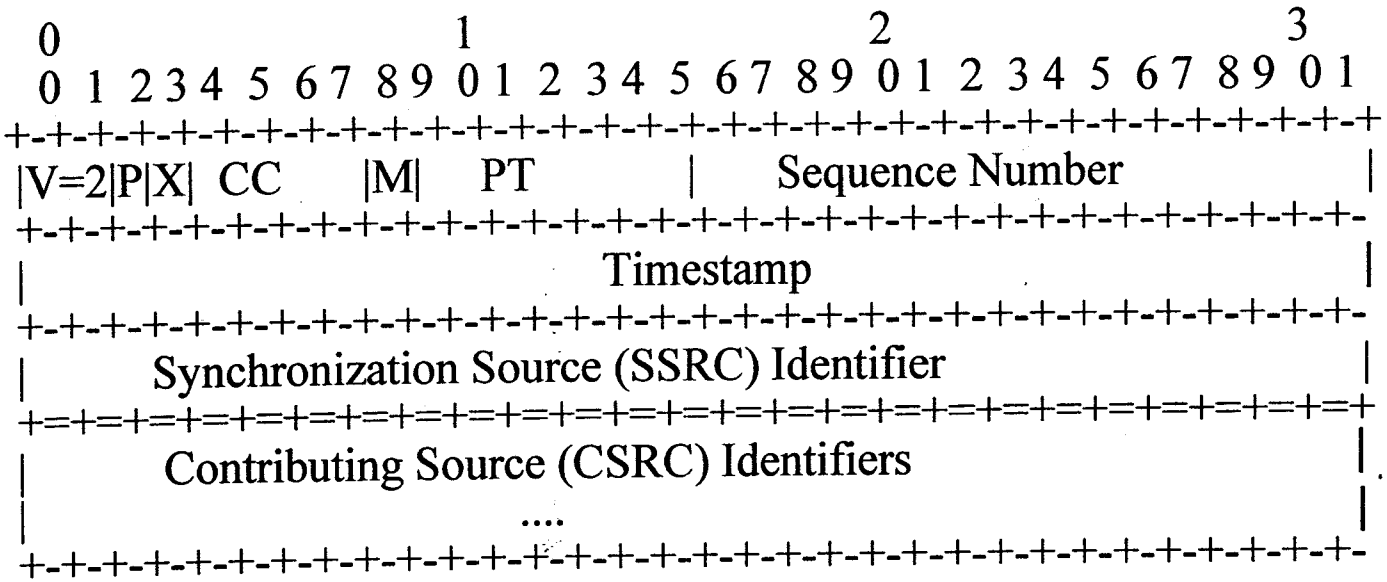

ASF STREAMING A/V DATA 100
ASF Packet A 106
ASF Packet B 108
Audio Data 102
Video Data 104
ASF Header
ASF Payload Header
Audio Data
Video Data A
Video Data B
RTP Header
RTP PF Header
Video Data A Frag. 1
Video Data A Frag. N
RTP Packet A 110
RTP Packet 112(1)
RTP Packet 112(N)
RTP Packet D 116
Audio Sample Data 120
Video Sample Data A + B 122
A/V SAMPLE DATA 124

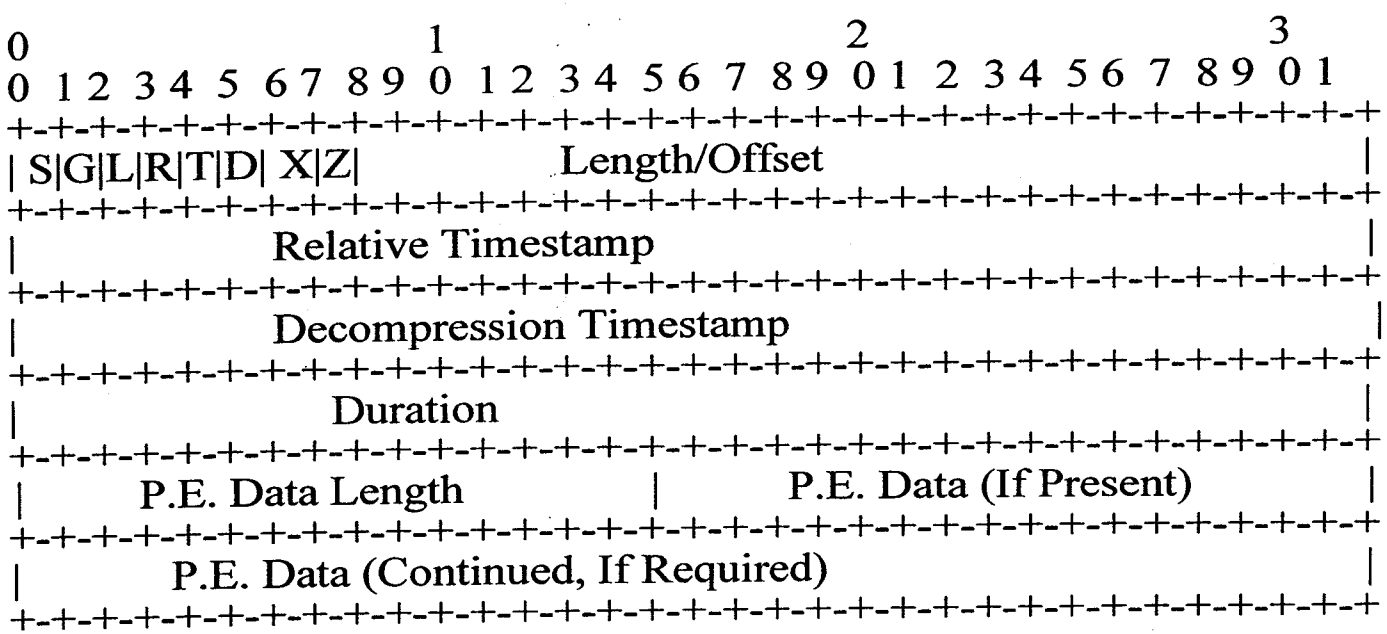
Fig. 2


ASF STREAMING VIDEO DATA 200
ASF Packet A 208
ASF Packet B 210
Video Data 202
ASF Header
ASF Payload Header
Video Data A 204
ASF Header
ASF Payload Header
Video Data B 206
250
RTP Header
RTP PF Header
Video Data A 204
RTP PF Header
Video Data B 206
RTP Packet Alternative A 212
RTP Header
RTP PF Header
Video Data A & B 204 AND 206
RTP Packet Alternative B 212
270
Video Sample DATA 222



RTP Header

Fig.3a



RTP
Payload Format
(PF) Header

Fig. 3b

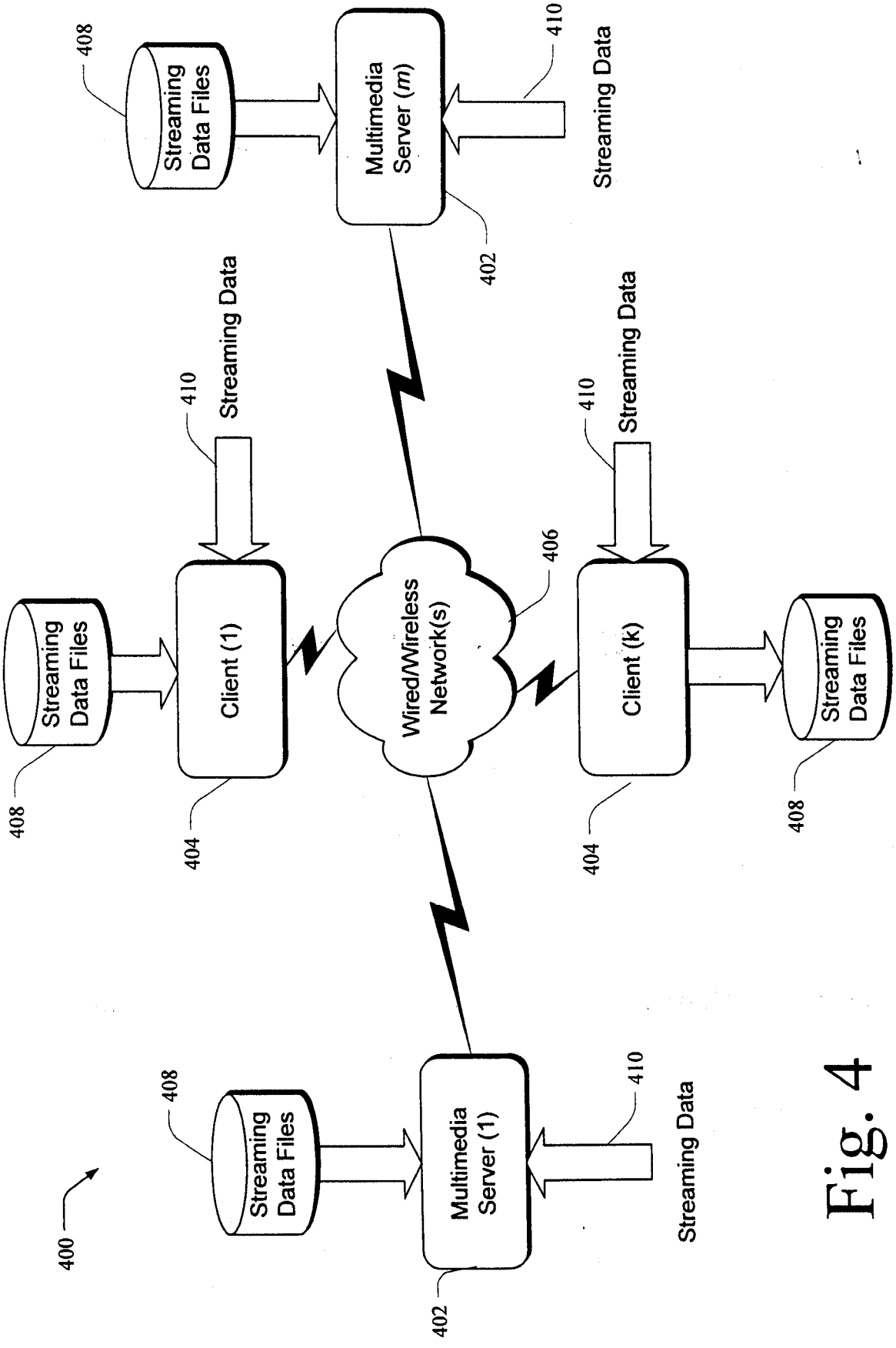

400
Streaming Data Files
408
Client (1)
404
410
Streaming Data
Wired/Wireless Network(s)
406
Client (k)
Streaming Data Files
Multimedia Server (1)
402
Streaming Data
Multimedia Server (m)
Streaming Data

Fig. 4

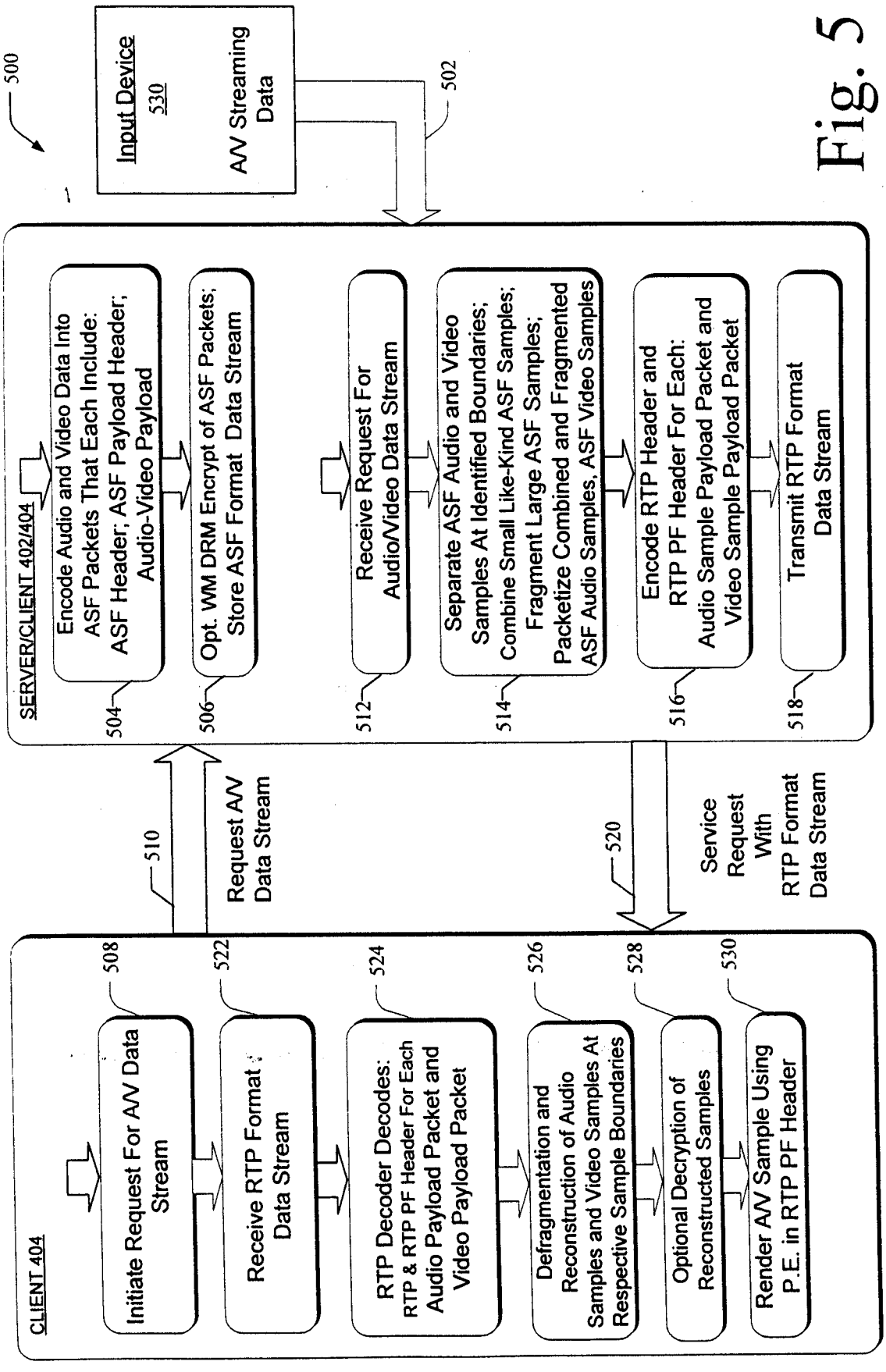

500
Input Device
530
A/V Streaming Data
502
SERVER/CLIENT 402/404
Encode Audio and Video Data Into ASF Packets That Each Include: ASF Header; ASF Payload Header; Audio-Video Payload
504
Opt. WM DRM Encrypt of ASF Packets; Store ASF Format Data Stream
506
Receive Request For Audio/Video Data Stream
512
Separate ASF Audio and Video Samples At Identified Boundaries; Combine Small Like-Kind ASF Samples; Fragment Large ASF Samples; Packetize Combined and Fragmented ASF Audio Samples, ASF Video Samples
514
Encode RTP Header and RTP PF Header For Each: Audio Sample Payload Packet and Video Sample Payload Packet
516
Transmit RTP Format Data Stream
518
510
Request A/V Data Stream
520
Service Request With RTP Format Data Stream
CLIENT 404
Initiate Request For A/V Data Stream
508
Receive RTP Format Data Stream
522
RTP Decoder Decodes: RTP & RTP PF Header For Each Audio Payload Packet and Video Payload Packet
524
Defragmentation and Reconstruction of Audio Samples and Video Samples At Respective Sample Boundaries
526
Optional Decryption of Reconstructed Samples
528
Render A/V Sample Using P.E. in RTP PF Header
530

Fig. 5

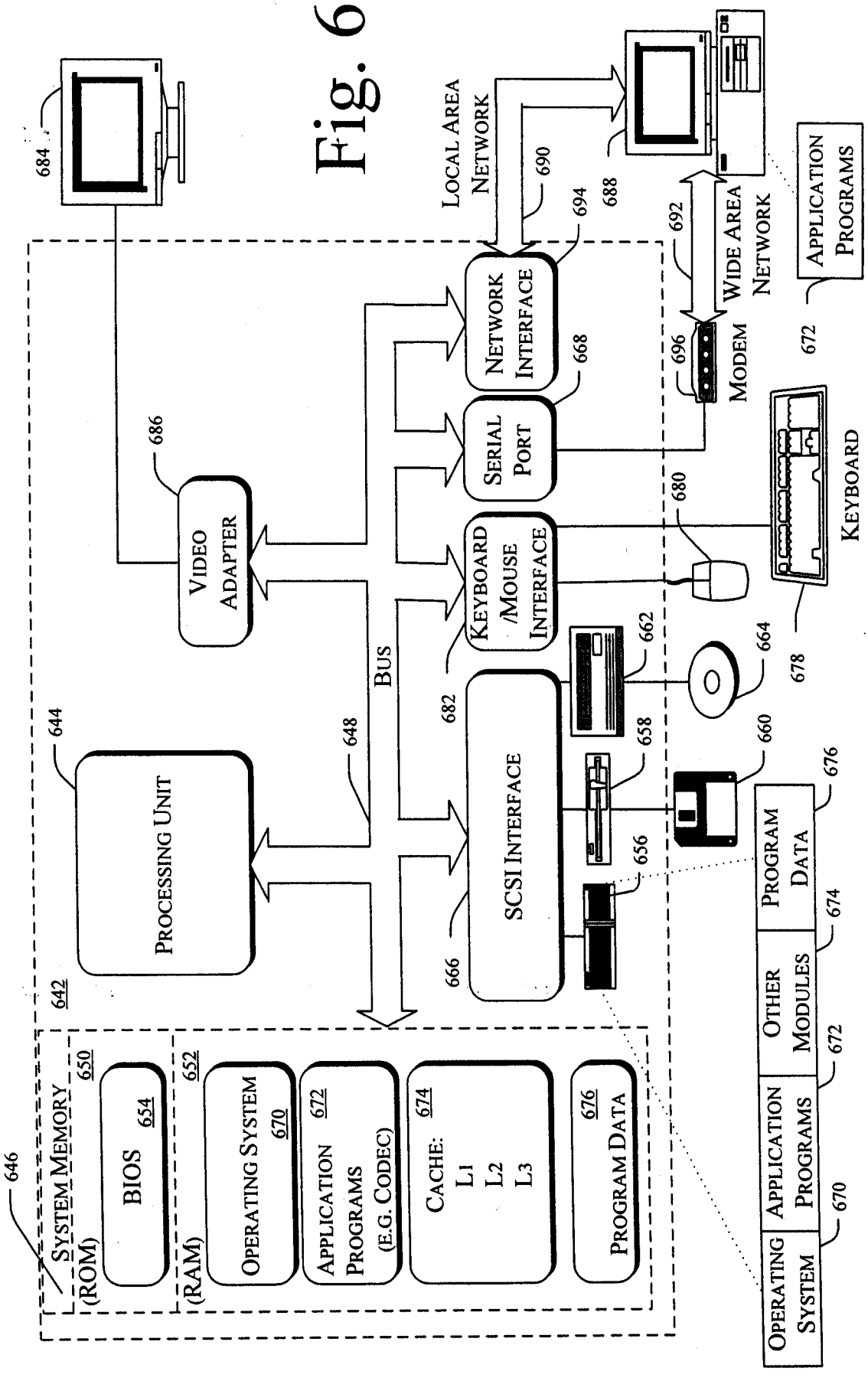

646
SYSTEM MEMORY
(ROM)
650
BIOS 654
(RAM)
652
OPERATING SYSTEM 670
APPLICATION PROGRAMS (E.G. CODEC) 672
CACHE: L1 L2 L3 674
PROGRAM DATA 676
642
644
PROCESSING UNIT
648
BUS
682
666
SCSI INTERFACE
656
658
660
662
664
678
KEYBOARD /MOUSE INTERFACE
680
SERIAL PORT
668
NETWORK INTERFACE
694
686
VIDEO ADAPTER
684
690
LOCAL AREA NETWORK
688
692
WIDE AREA NETWORK
696
MODEM
672
APPLICATION PROGRAMS
KEYBOARD
OPERATING SYSTEM 670
APPLICATION PROGRAMS 672
OTHER MODULES 674
PROGRAM DATA 676

Fig. 6