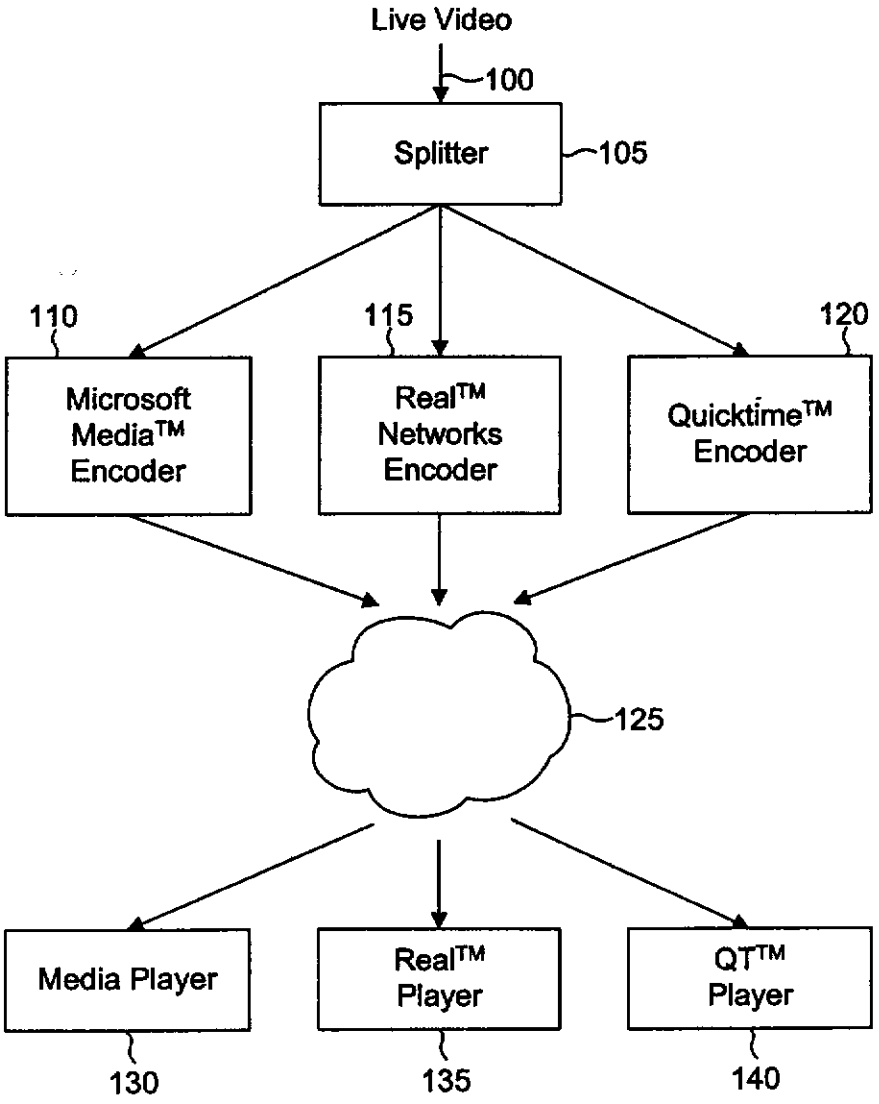


FIG. 1A
(Prior Art)

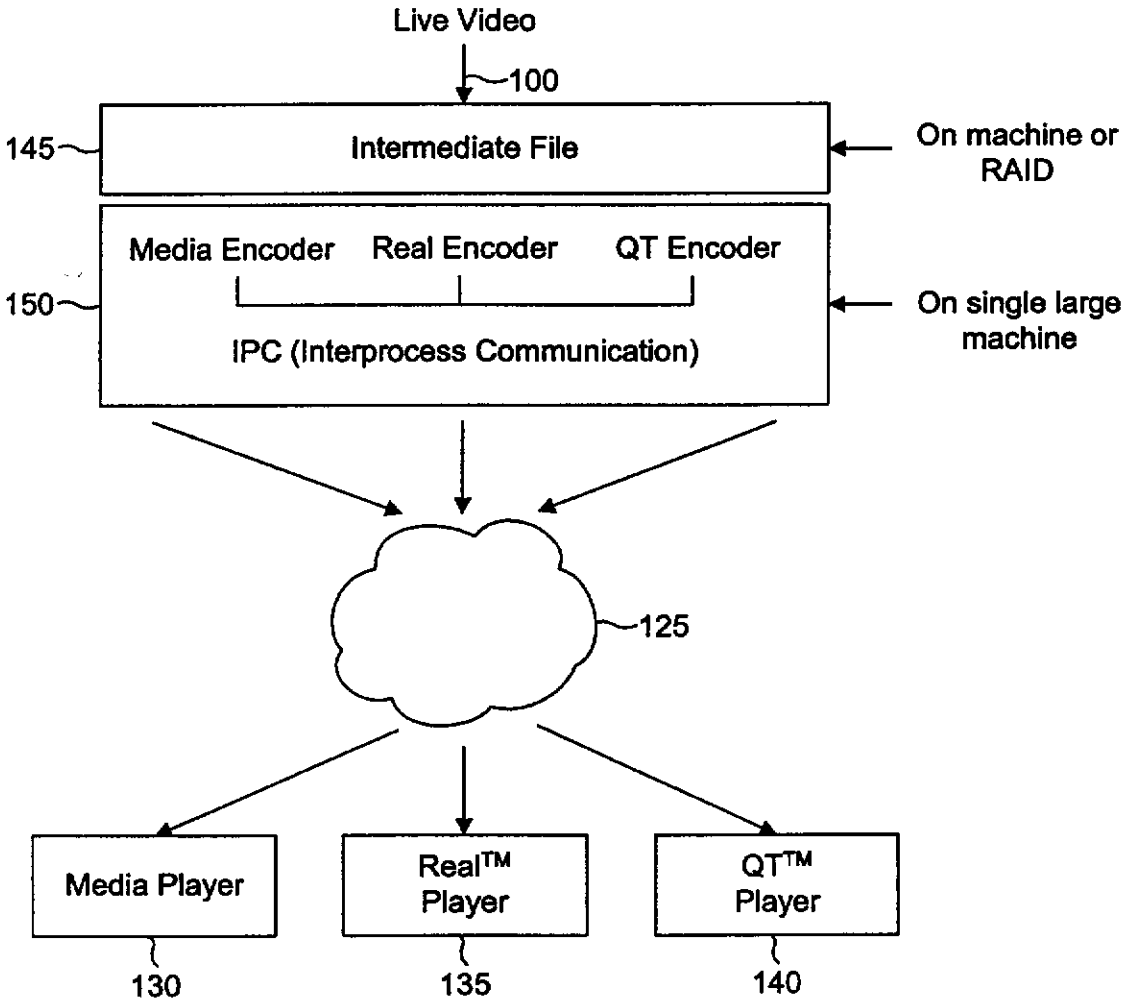


FIG. 1B
(Prior Art)

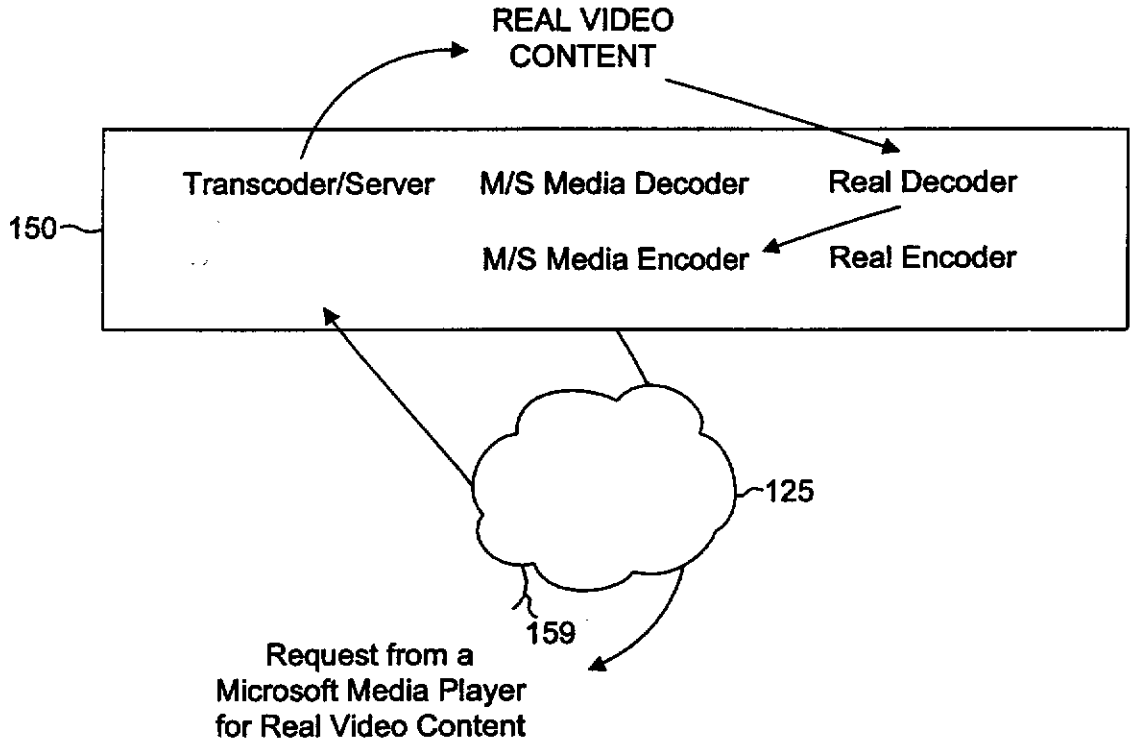


FIG. 1C
(Prior Art)

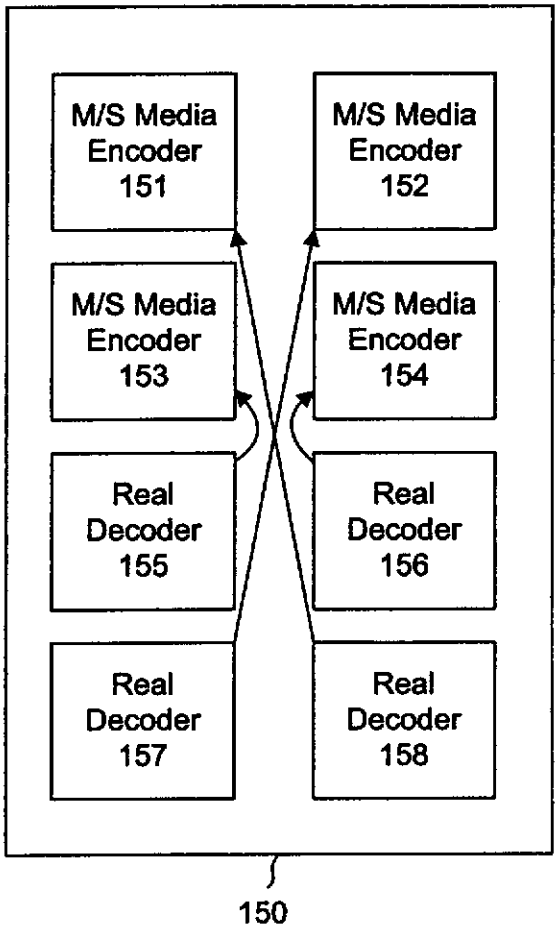


FIG. 1D
(Prior Art)

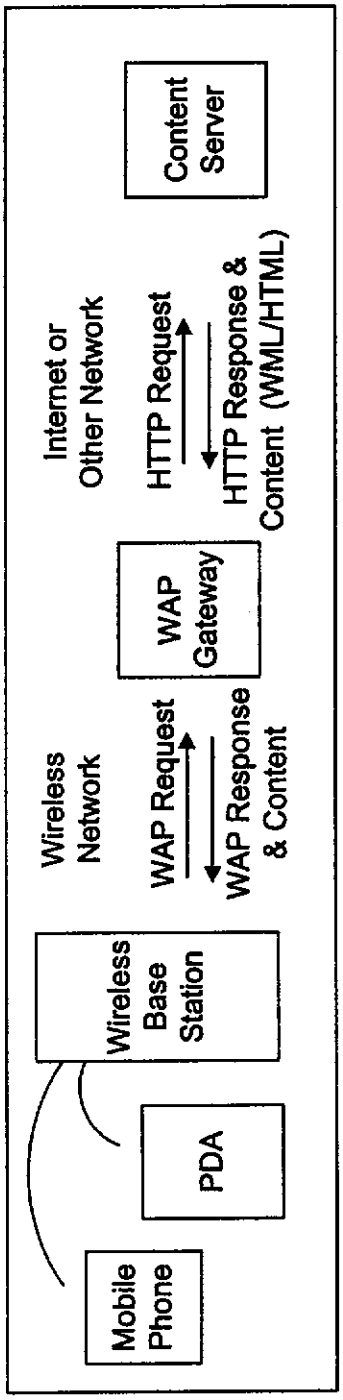


FIG. 1E
(Prior Art)

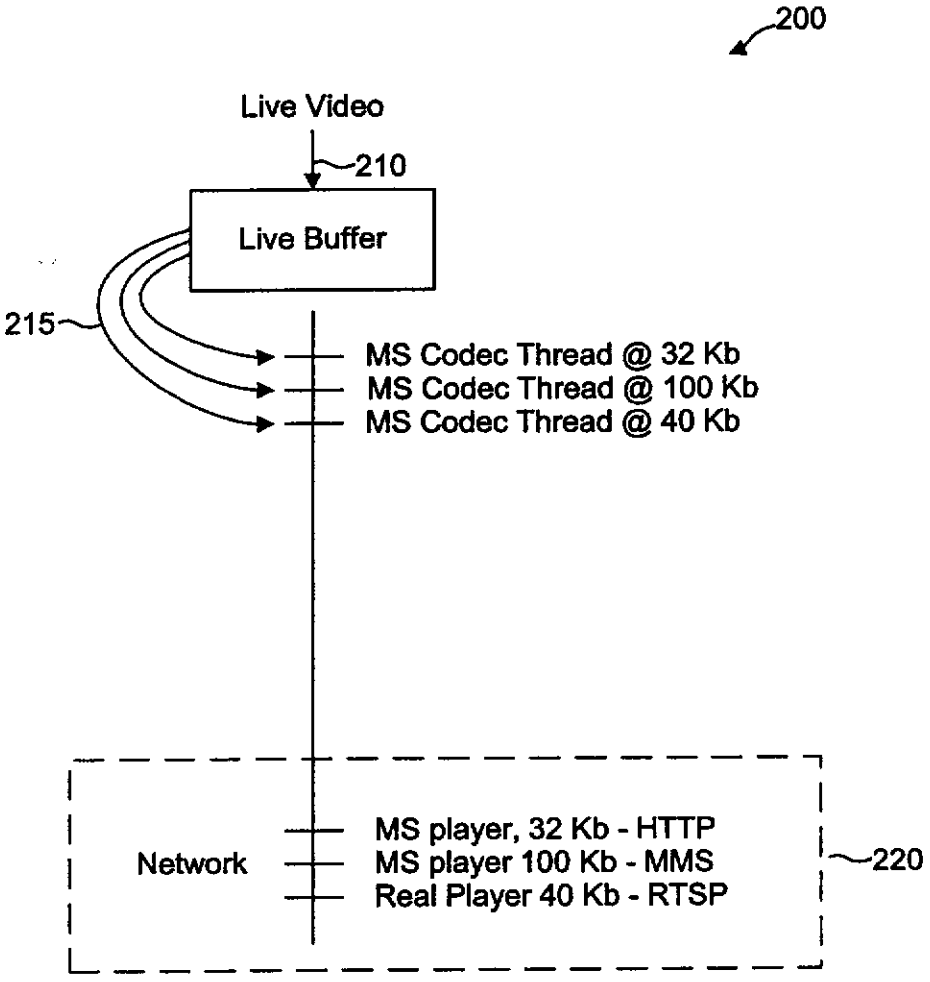

200
Live Video
210
Live Buffer
215
MS Codec Thread @ 32 Kb
MS Codec Thread @ 100 Kb
MS Codec Thread @ 40 Kb
Network
MS player, 32 Kb - HTTP
MS player 100 Kb - MMS
Real Player 40 Kb - RTSP
220

FIG. 2

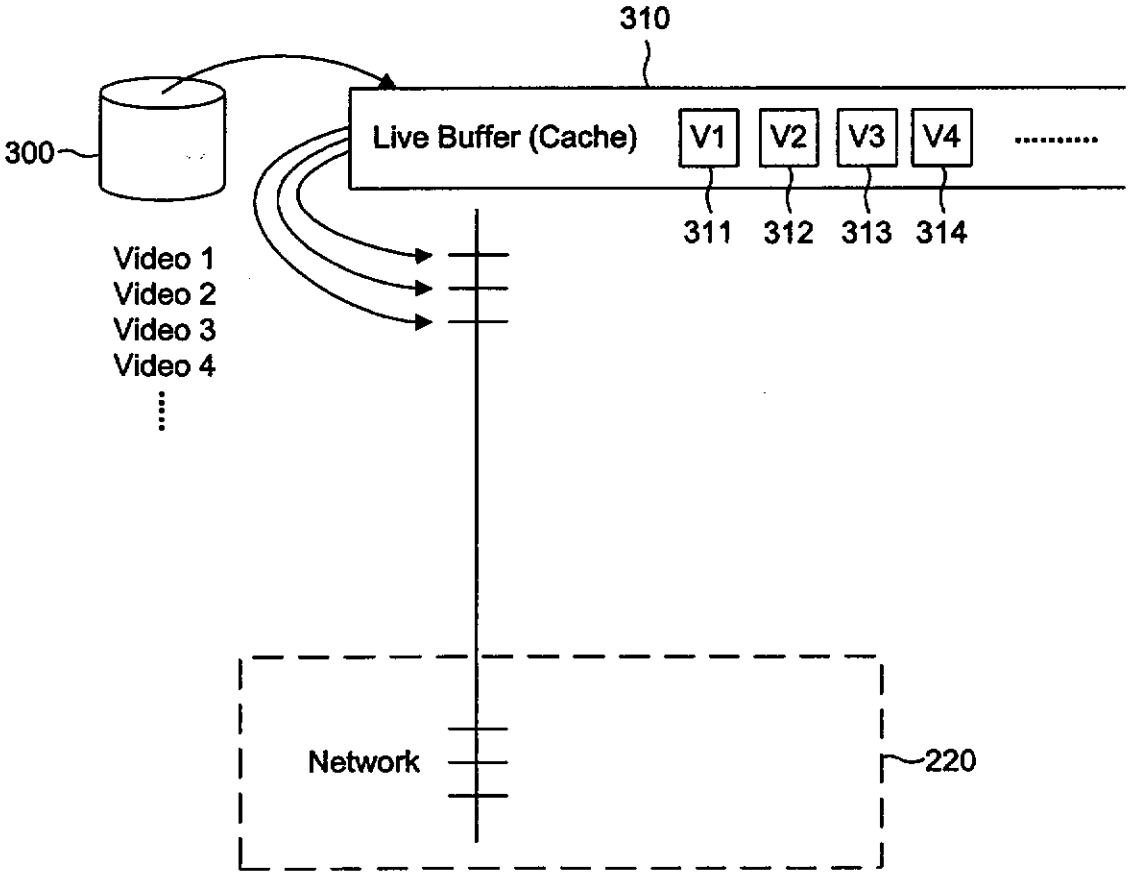

310
300
Live Buffer (Cache)
V1
V2
V3
V4
311
312
313
314
Video 1
Video 2
Video 3
Video 4
Network
220

FIG. 3

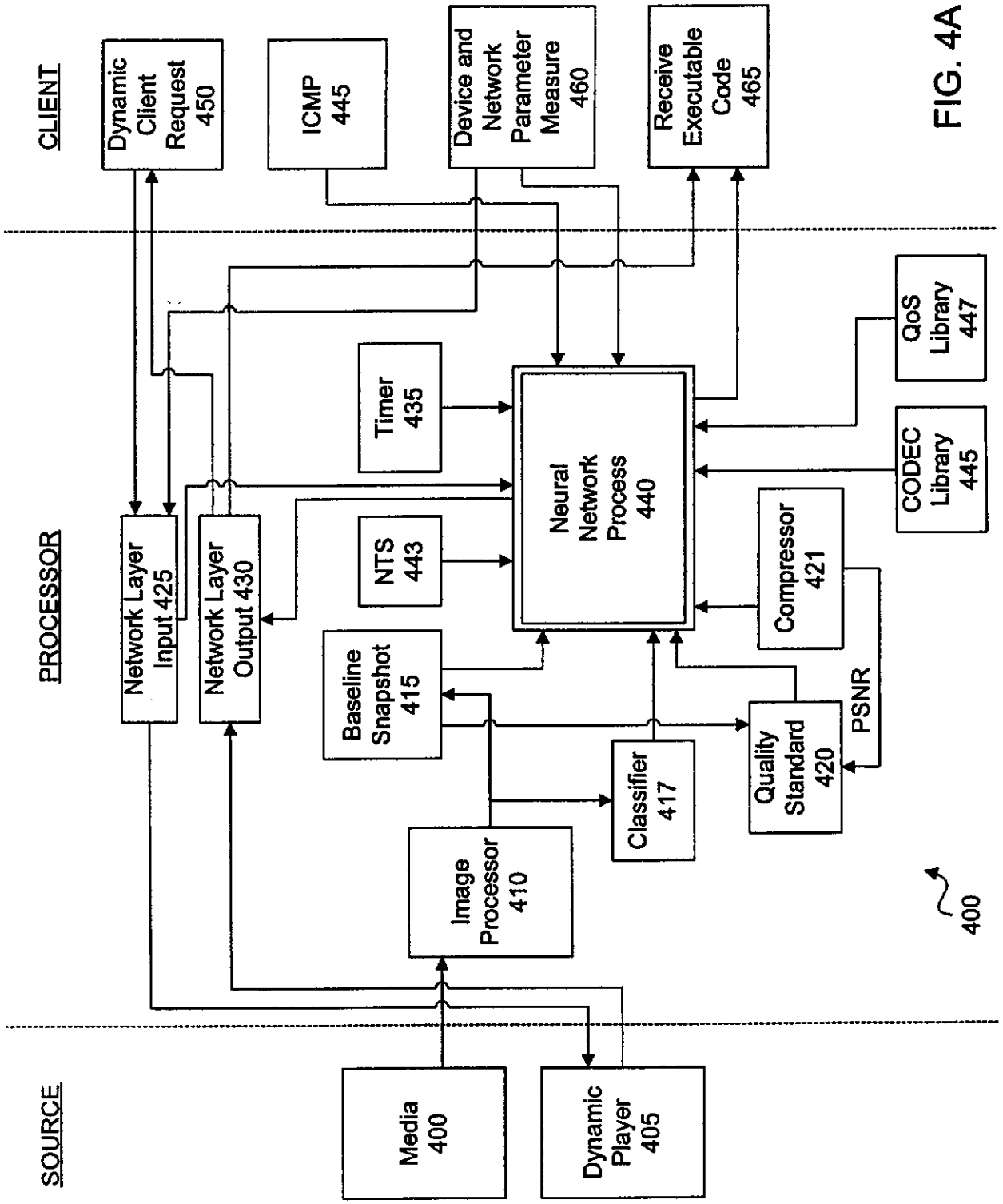

CLIENT
PROCESSOR
SOURCE
Dynamic Client Request 450
ICMP 445
Device and Network Parameter Measure 460
Receive Executable Code 465
QoS Library 447
CODEC Library 445
Timer 435
Neural Network Process 440
NTS 443
Network Layer Input 425
Network Layer Output 430
Compressor 421
Baseline Snapshot 415
Classifier 417
Quality Standard 420
PSNR
Image Processor 410
Media 400
Dynamic Player 405
400

FIG. 4A

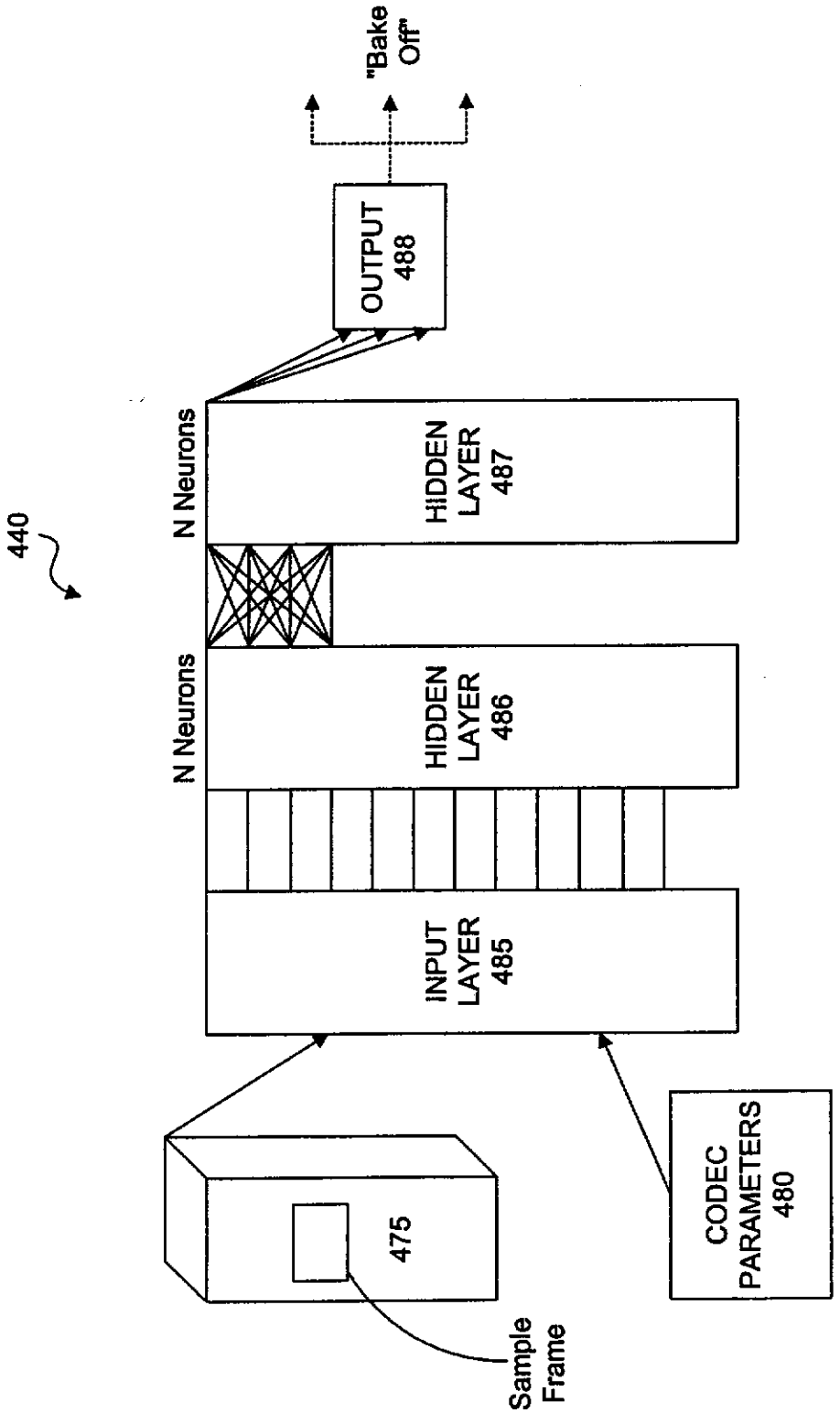
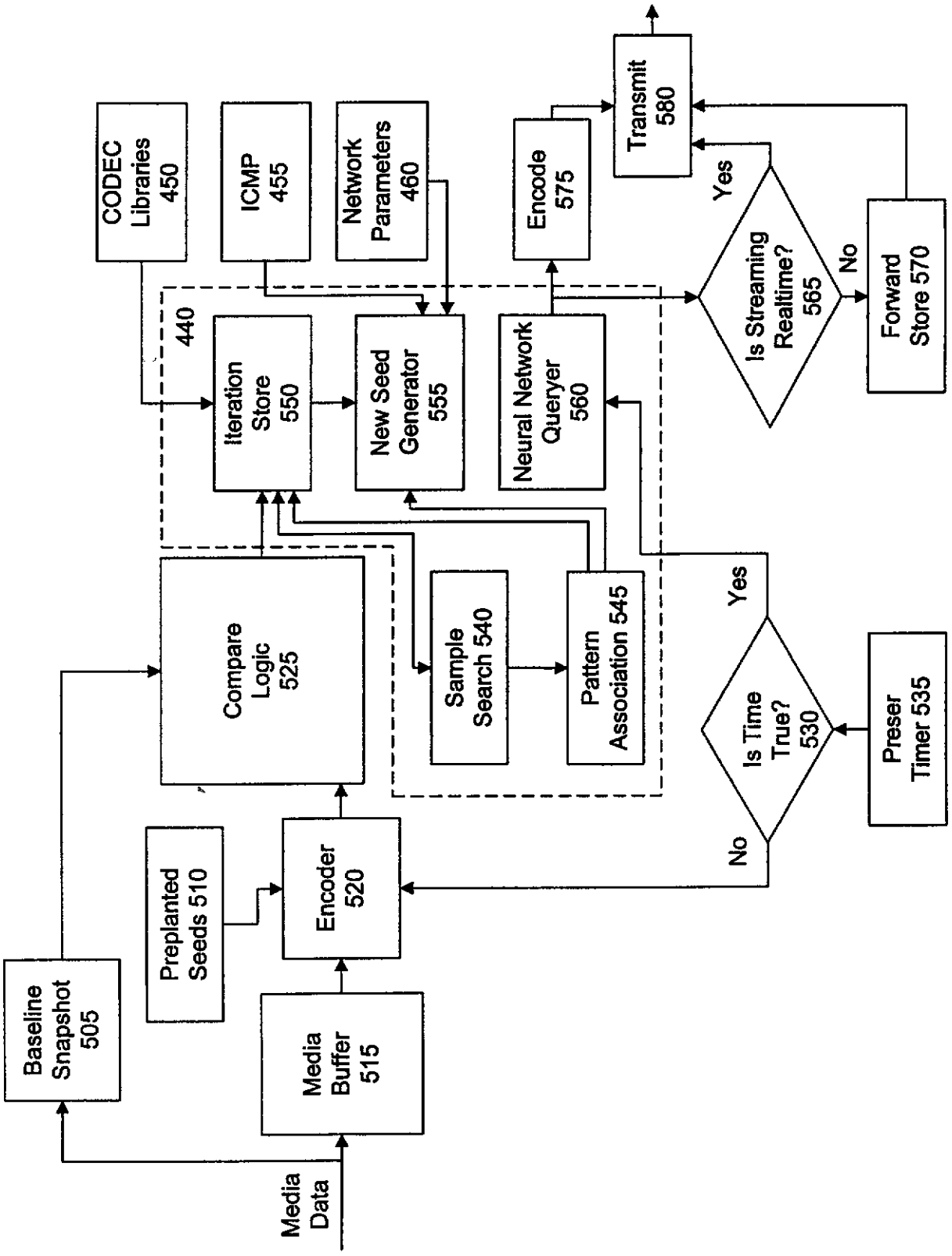

440
"Bake Off"
OUTPUT 488
N Neurons
HIDDEN LAYER 487
N Neurons
HIDDEN LAYER 486
INPUT LAYER 485
475
Sample Frame
CODEC PARAMETERS 480

FIG. 4B


Media Data
Baseline Snapshot 505
Media Buffer 515
Preplanted Seeds 510
Encoder 520
Compare Logic 525
Sample Search 540
Pattern Association 545
Is Time True? 530
Yes
No
Preser Timer 535
440
Iteration Store 550
New Seed Generator 555
Neural Network Querver 560
CODEC Libraries 450
ICMP 455
Network Parameters 460
Encode 575
Transmit 580
Is Streaming Realtime? 565
Yes
No
Forward Store 570

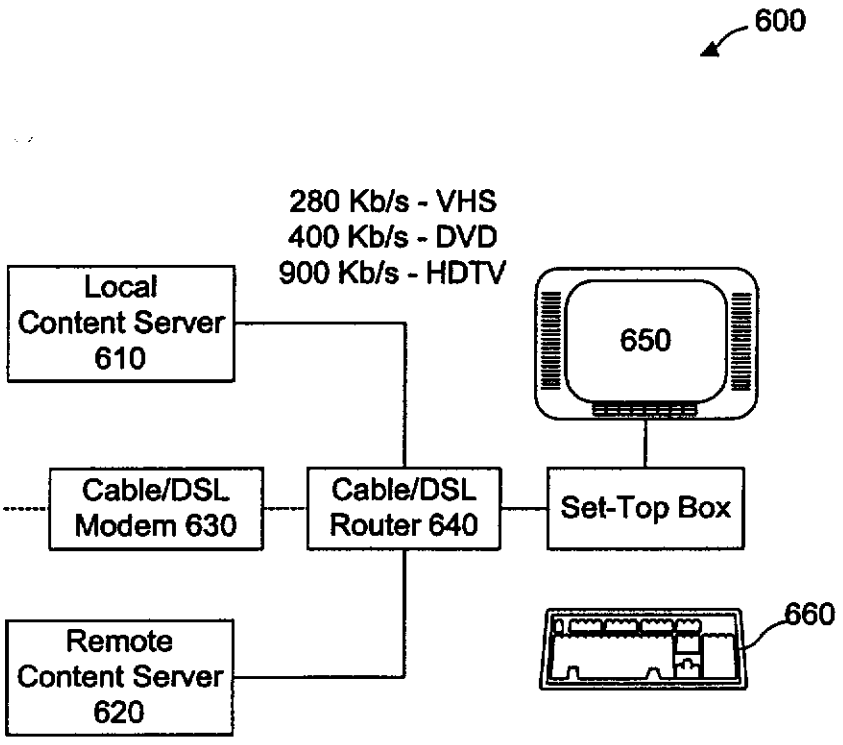

600
280 Kb/s - VHS
400 Kb/s - DVD
900 Kb/s - HDTV
Local Content Server 610
650
Cable/DSL Modem 630
Cable/DSL Router 640
Set-Top Box
660
Remote Content Server 620

FIG. 6

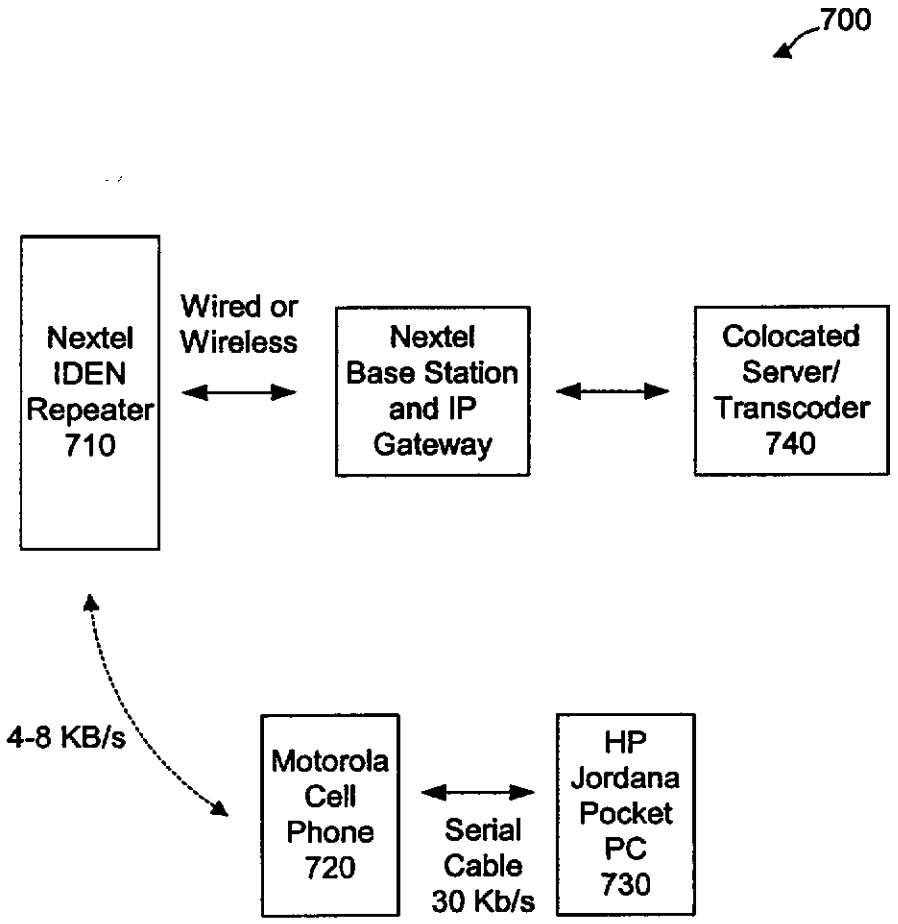

700
Nextel IDEN Repeater 710
Wired or Wireless
Nextel Base Station and IP Gateway
Colocated Server/ Transcoder 740
4-8 KB/s
Motorola Cell Phone 720
Serial Cable 30 Kb/s
HP Jordana Pocket PC 730

FIG. 7

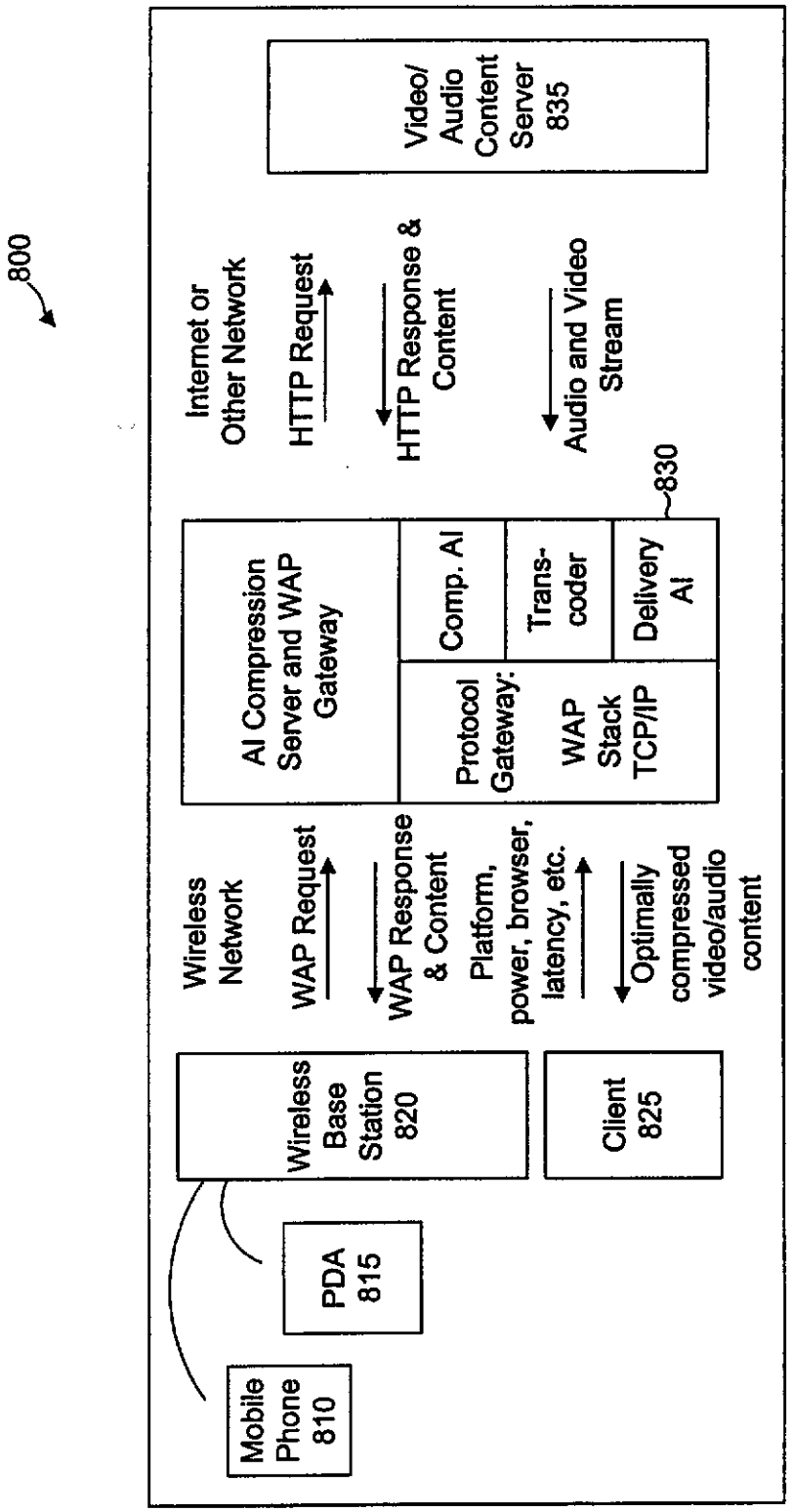
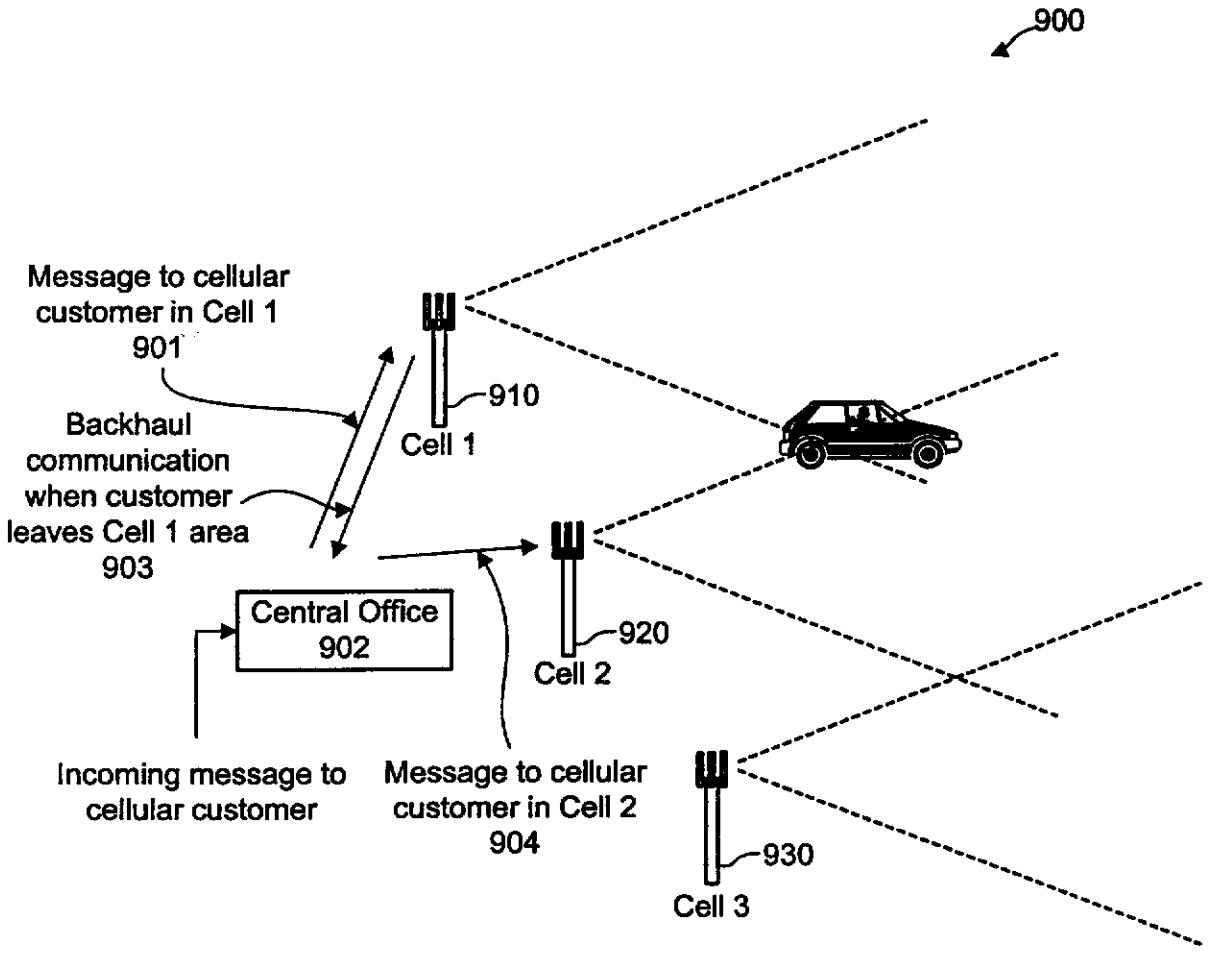
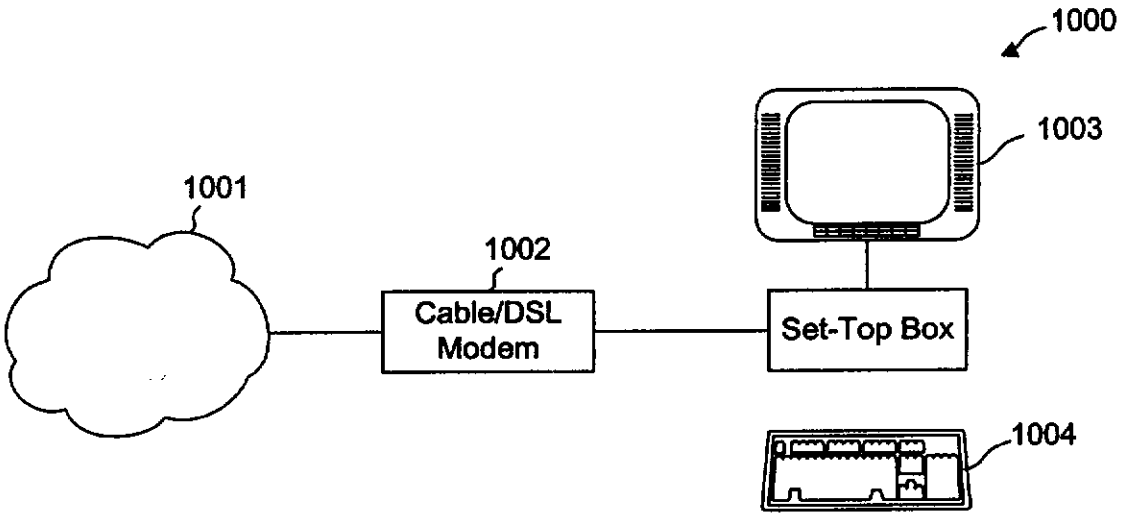

800
Mobile Phone 810
PDA 815
Wireless Base Station 820
Client 825
Wireless Network
WAP Request
WAP Response & Content
Platform, power, browser, latency, etc.
Optimally compressed video/audio content
AI Compression Server and WAP Gateway
Protocol Gateway: WAP Stack TCP/IP
Comp. AI
Trans-coder
Delivery AI
830
Internet or Other Network
HTTP Request
HTTP Response & Content
Audio and Video Stream
Video/ Audio Content Server 835

FIG. 8

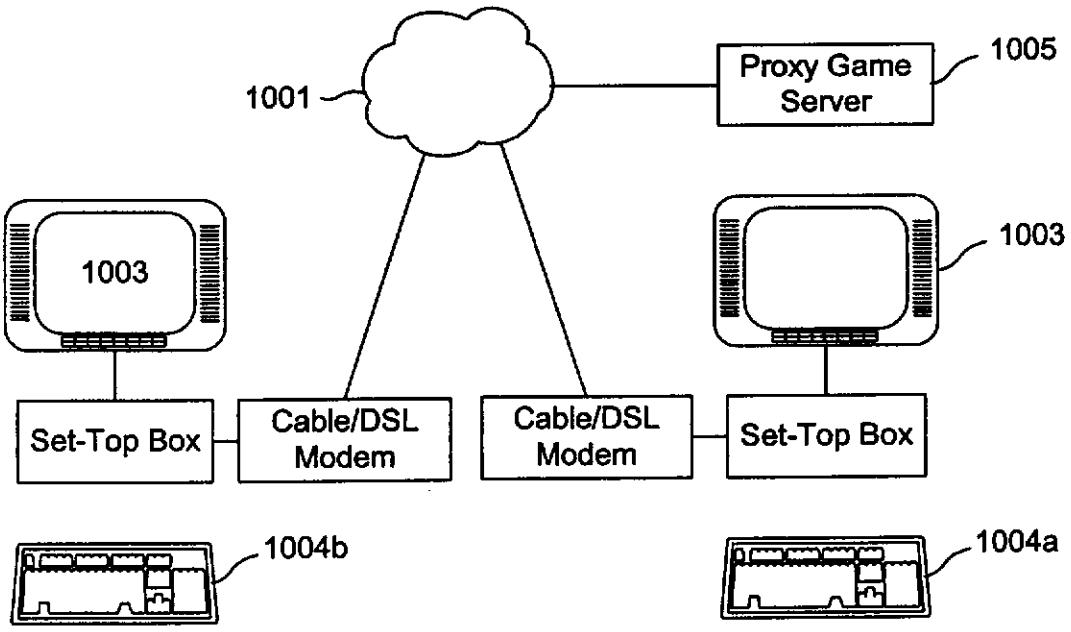


Depiction of backhaul communications resulting from handoff of cellular communication when recipient transits into a second cellular area

FIG. 9



Browsing via the Set-Top Box



Interactive Gaming

FIG. 10