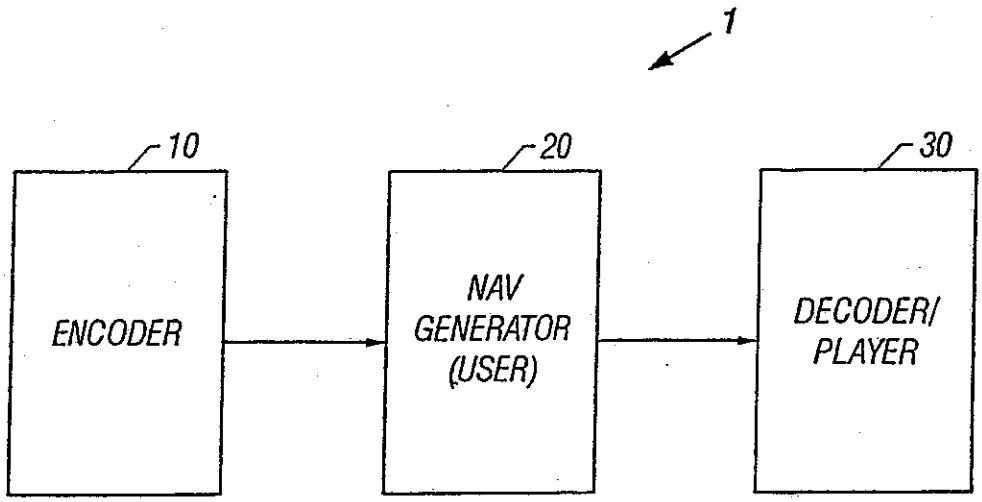

1
10
20
30
ENCODER
NAV GENERATOR (USER)
DECODER/ PLAYER

FIG. 1A

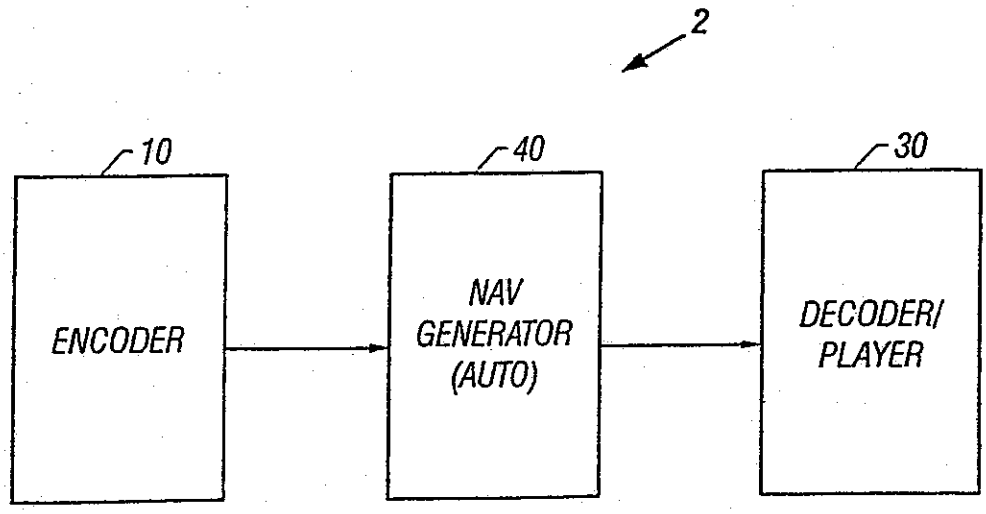

2
10
40
30
ENCODER
NAV GENERATOR (AUTO)
DECODER/ PLAYER

FIG. 1B

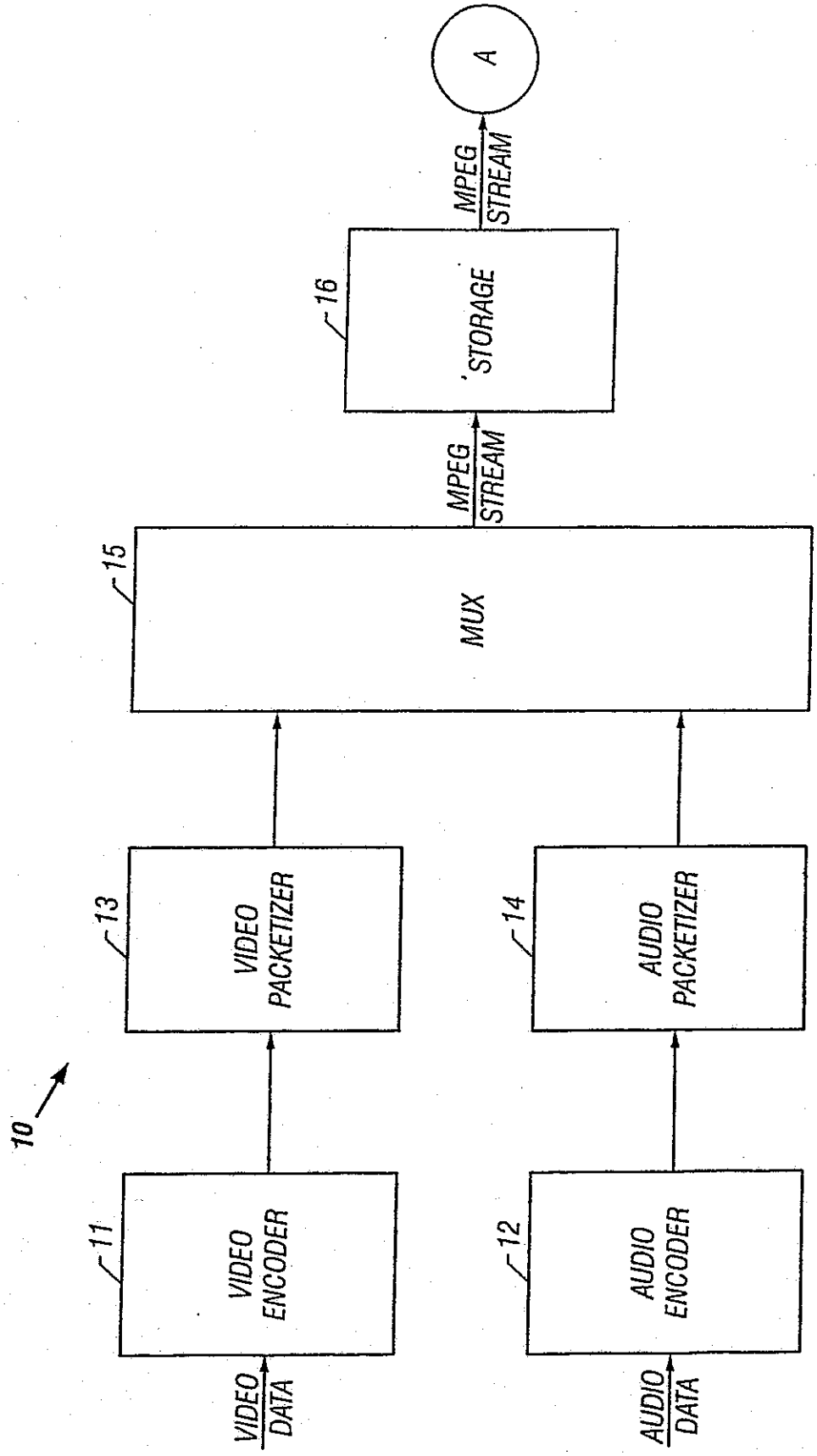

10
11
VIDEO ENCODER
12
AUDIO ENCODER
13
VIDEO PACKETIZER
14
AUDIO PACKETIZER
15
MUX
16
STORAGE
MPEG STREAM
MPEG STREAM
A
VIDEO DATA
AUDIO DATA

FIG. 2A

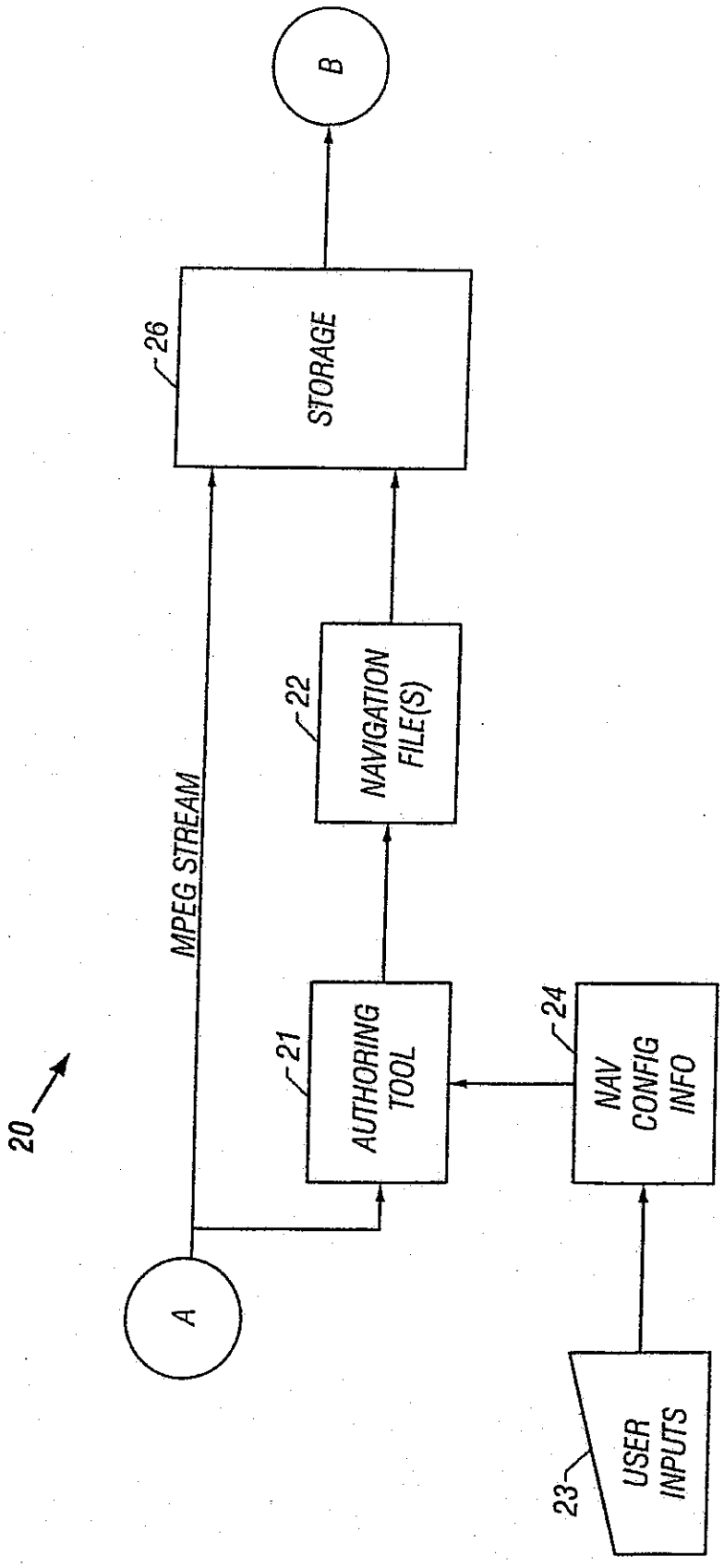

B
26
STORAGE
22
NAVIGATION FILE(S)
MPEG STREAM
20
21
AUTHORING TOOL
24
NAV CONFIG INFO
A
23
USER INPUTS

FIG. 2B

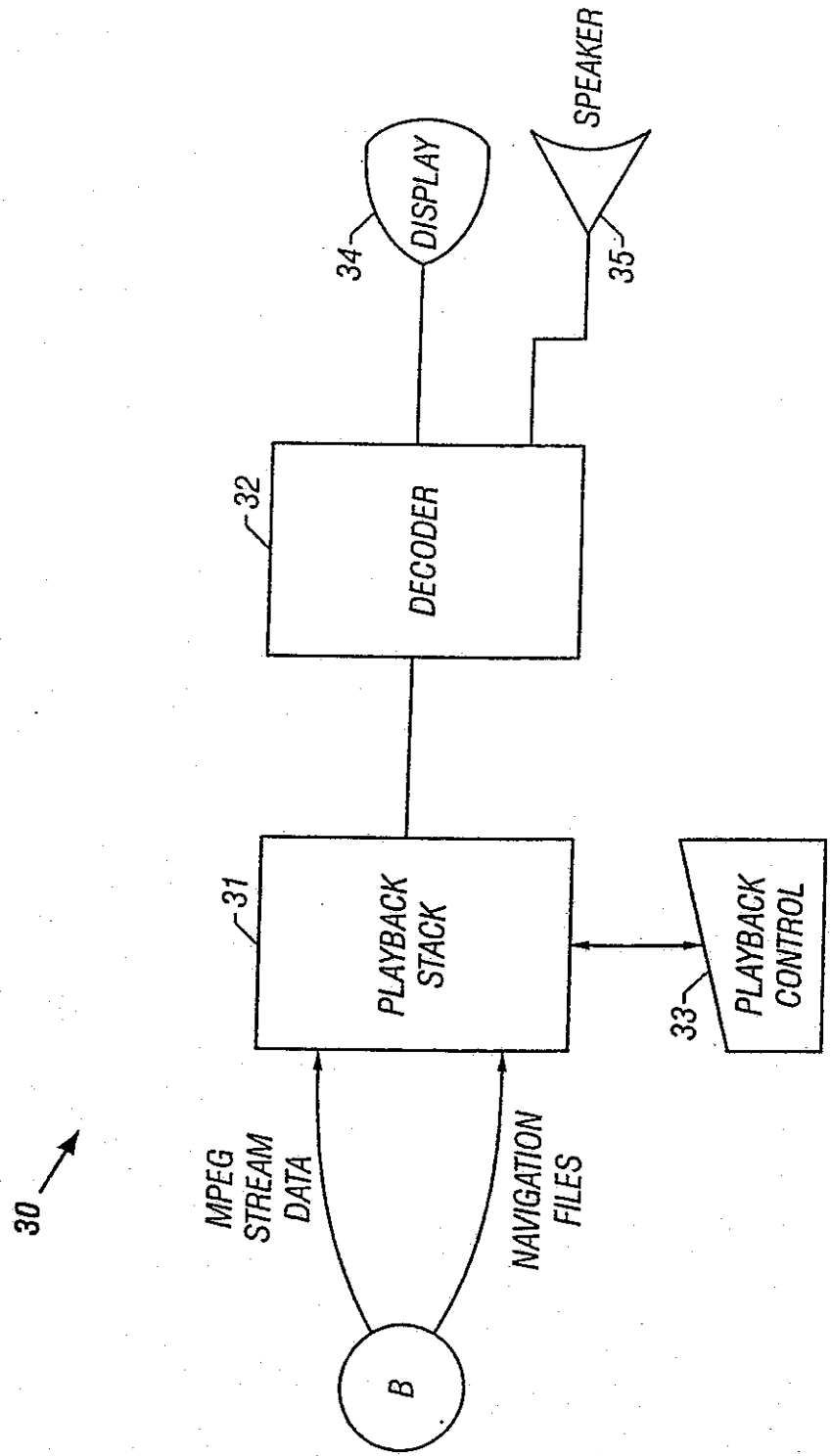

30
MPEG STREAM DATA
NAVIGATION FILES
B
31
PLAYBACK STACK
33
PLAYBACK CONTROL
32
DECODER
34
DISPLAY
35
SPEAKER

FIG. 2C

5/6

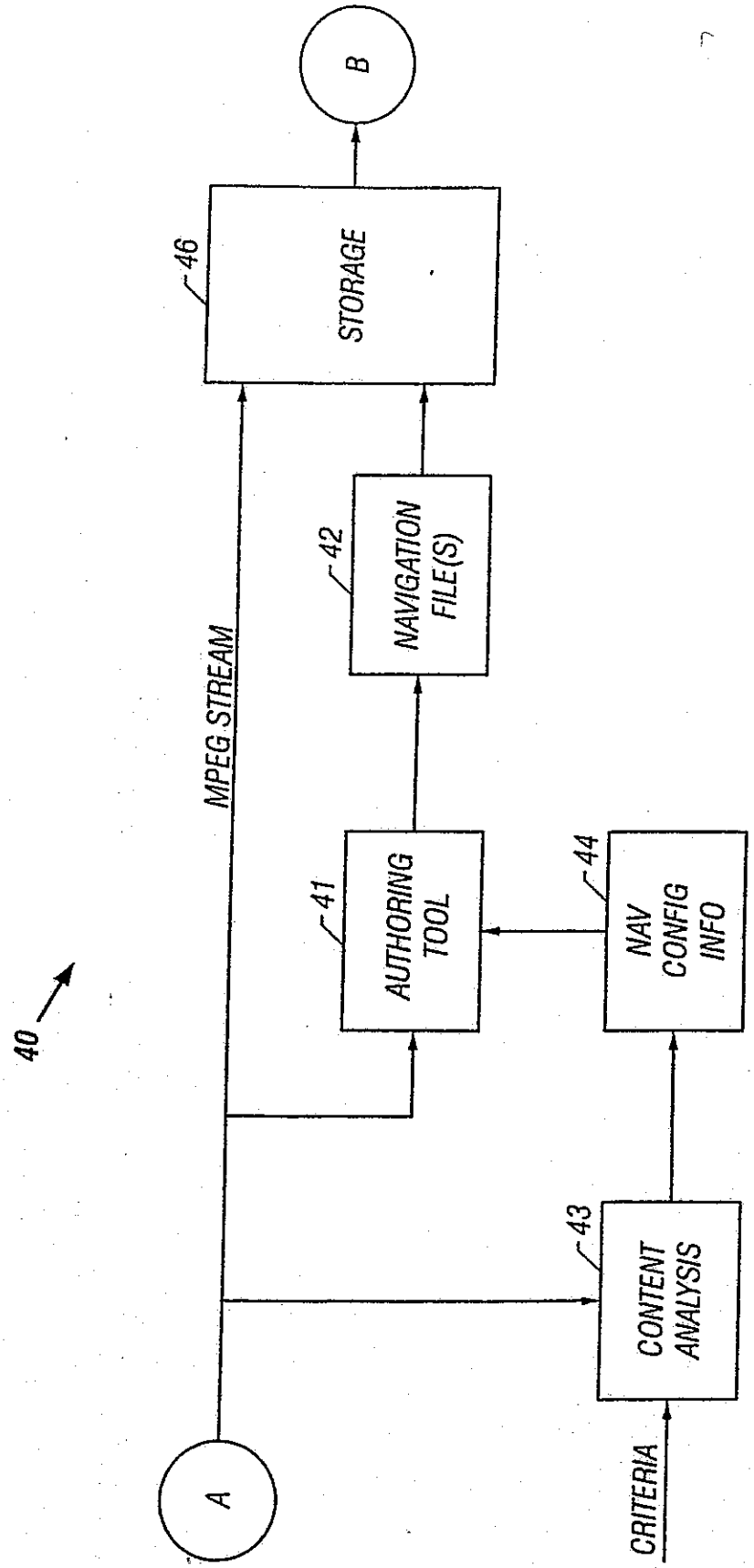

40
A
B
MPEG STREAM
41
AUTHORING TOOL
42
NAVIGATION FILE(S)
43
CONTENT ANALYSIS
44
NAV CONFIG INFO
46
STORAGE
CRITERIA

FIG. 2D

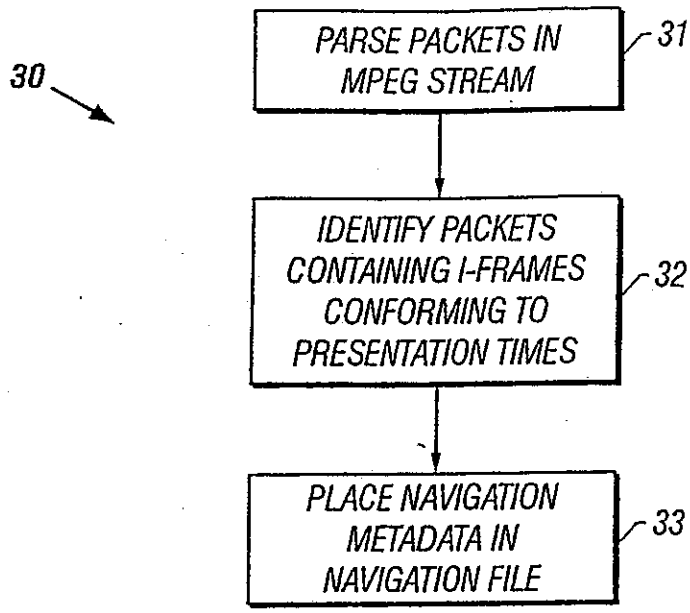

30
PARSE PACKETS IN MPEG STREAM
31
IDENTIFY PACKETS CONTAINING I-FRAMES CONFORMING TO PRESENTATION TIMES
32
PLACE NAVIGATION METADATA IN NAVIGATION FILE
33

FIG. 3

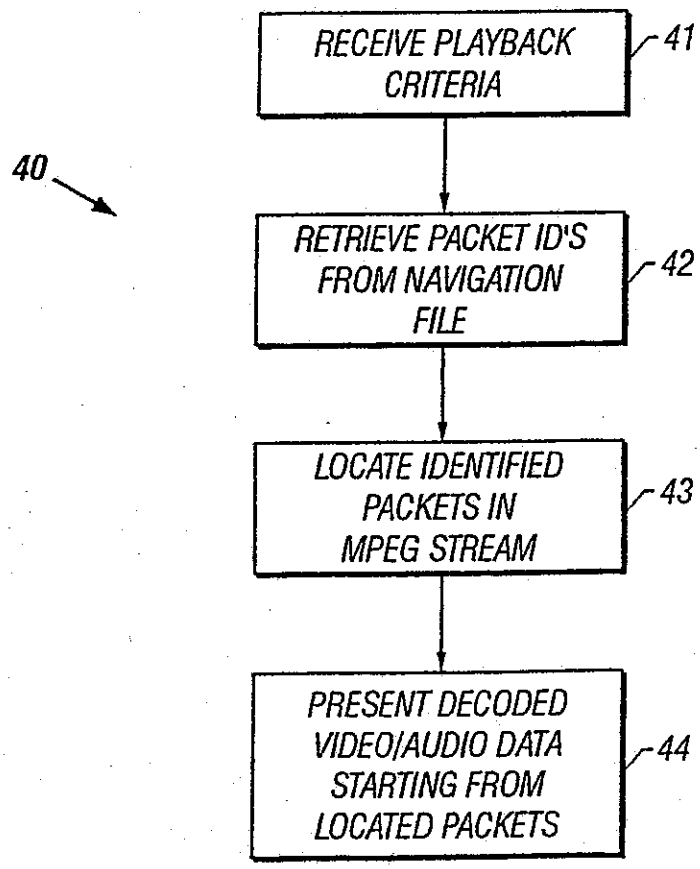

40
RECEIVE PLAYBACK CRITERIA
41
RETRIEVE PACKET ID'S FROM NAVIGATION FILE
42
LOCATE IDENTIFIED PACKETS IN MPEG STREAM
43
PRESENT DECODED VIDEO/AUDIO DATA STARTING FROM LOCATED PACKETS
44

FIG. 4