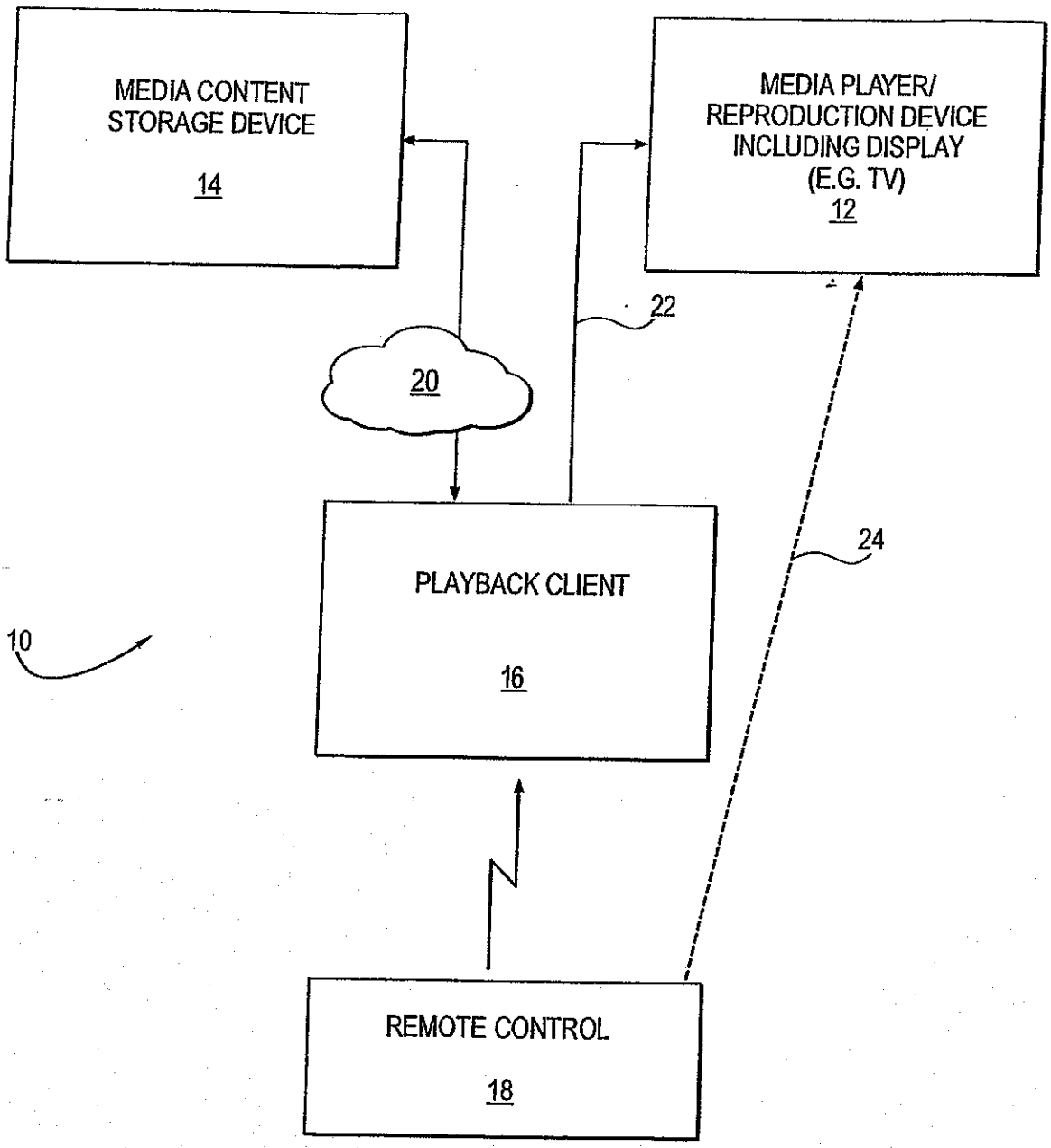


FIG. 1
(Prior Art)

SUBSTITUTE SHEET (RULE 26)

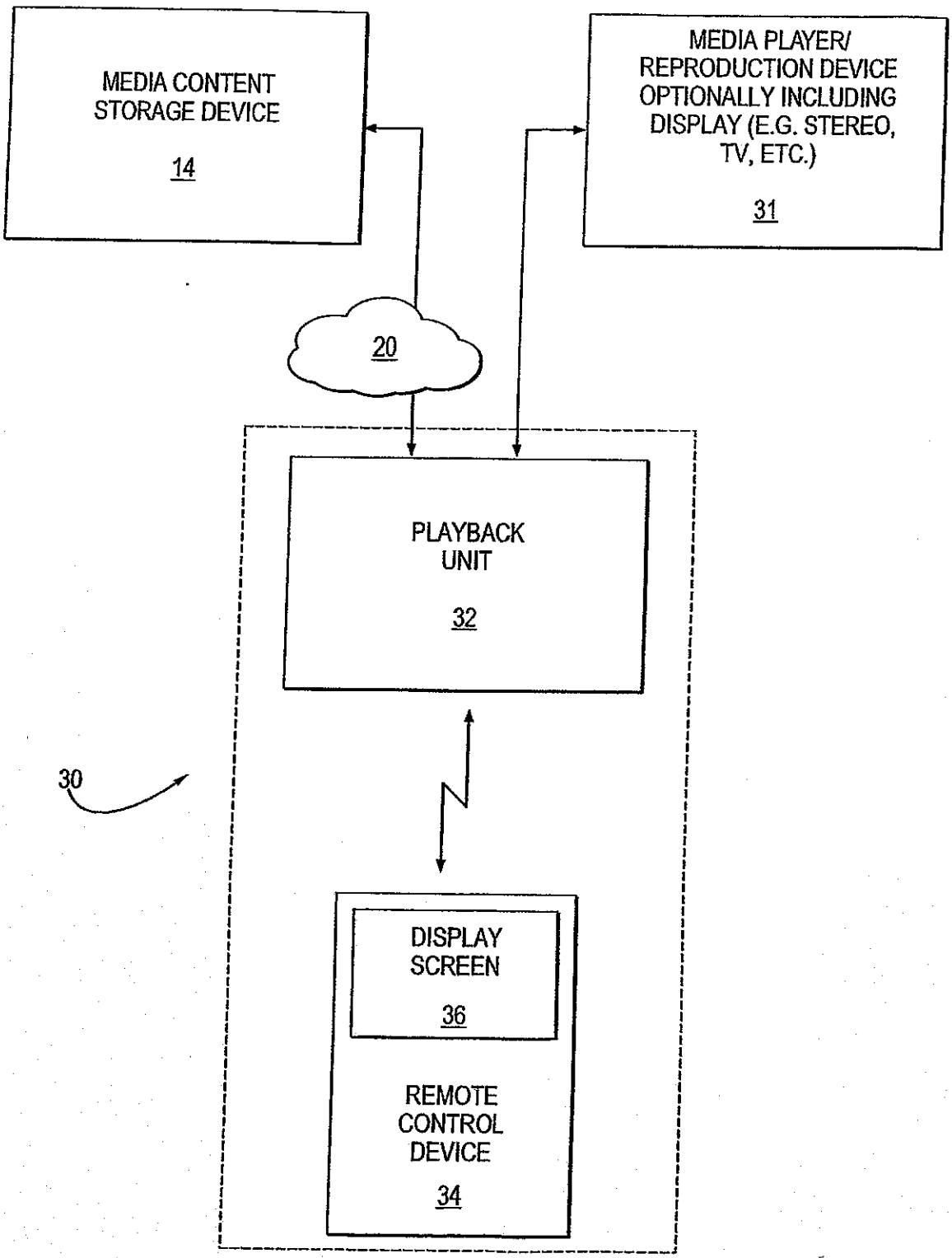


FIG. 2

SUBSTITUTE SHEET (RULE 26)

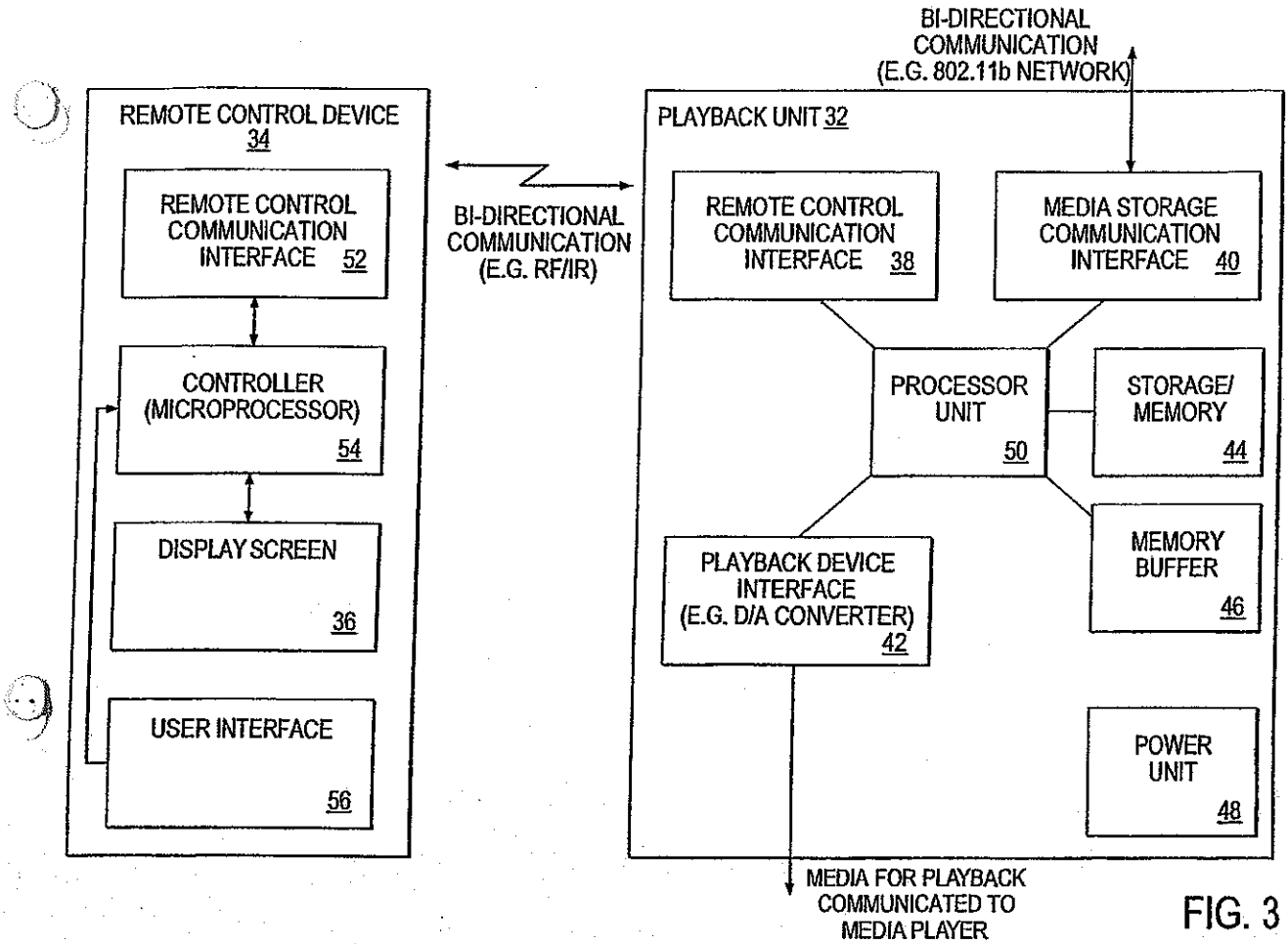


FIG. 3

SUBSTITUTE SHEET (RULE 26)

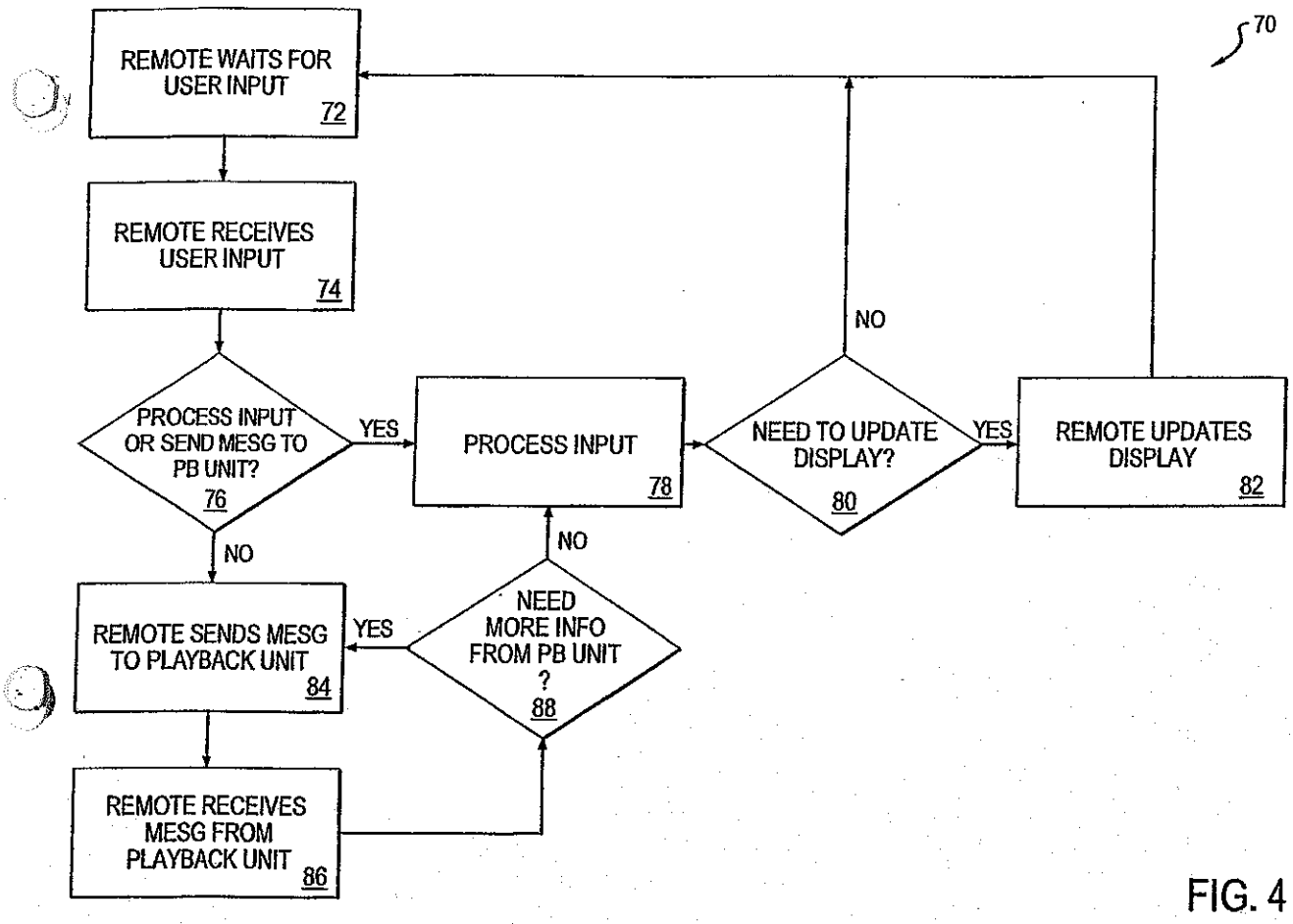

70
REMOTE WAITS FOR USER INPUT 72
REMOTE RECEIVES USER INPUT 74
PROCESS INPUT OR SEND MESG TO PB UNIT? 76
YES
PROCESS INPUT 78
NEED TO UPDATE DISPLAY? 80
YES
REMOTE UPDATES DISPLAY 82
NO
NO
NO
REMOTE SENDS MESG TO PLAYBACK UNIT 84
YES
NEED MORE INFO FROM PB UNIT ? 88
REMOTE RECEIVES MESG FROM PLAYBACK UNIT 86

FIG. 4

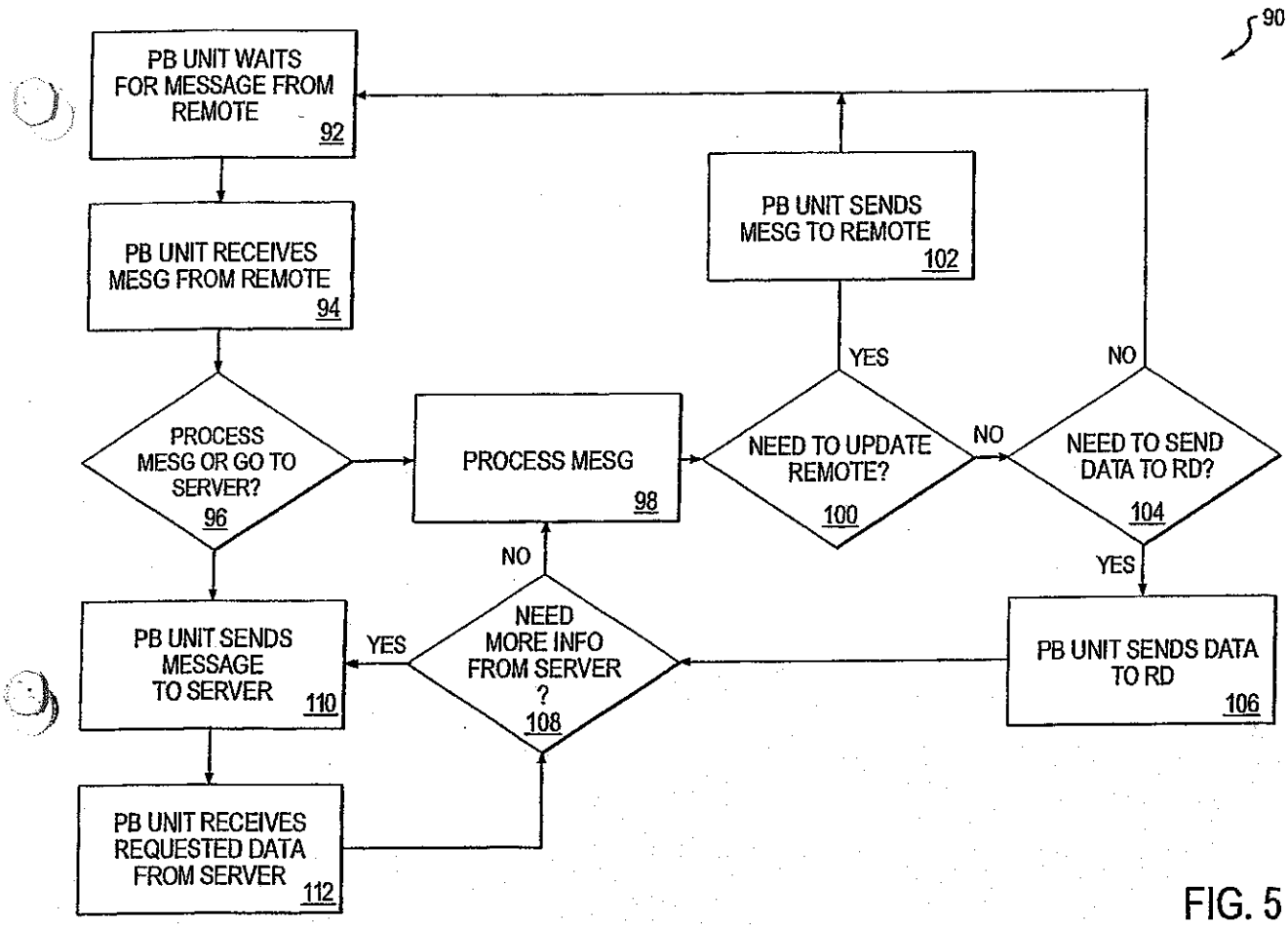

90
PB UNIT WAITS FOR MESSAGE FROM REMOTE 92
PB UNIT RECEIVES MESG FROM REMOTE 94
PROCESS MESG OR GO TO SERVER? 96
PROCESS MESG 98
NEED TO UPDATE REMOTE? 100
PB UNIT SENDS MESG TO REMOTE 102
NEED TO SEND DATA TO RD? 104
PB UNIT SENDS DATA TO RD 106
NEED MORE INFO FROM SERVER ? 108
PB UNIT SENDS MESSAGE TO SERVER 110
PB UNIT RECEIVES REQUESTED DATA FROM SERVER 112
YES
NO
YES
NO
NO
YES

FIG. 5

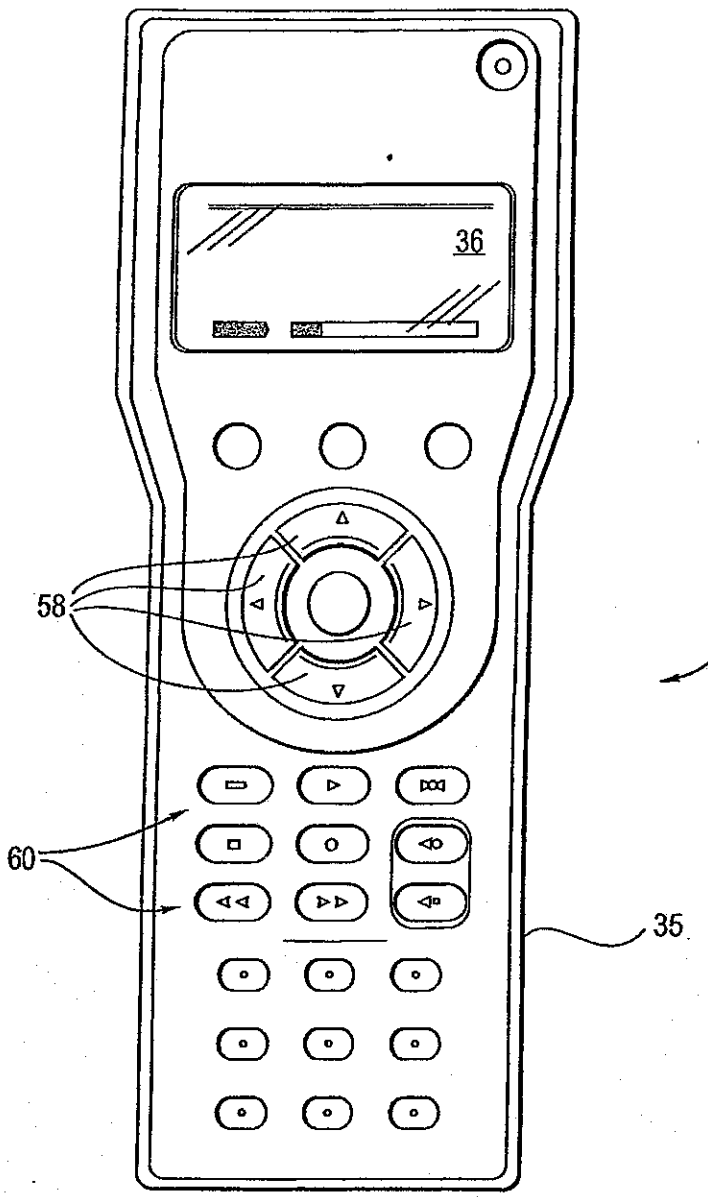


FIG. 6

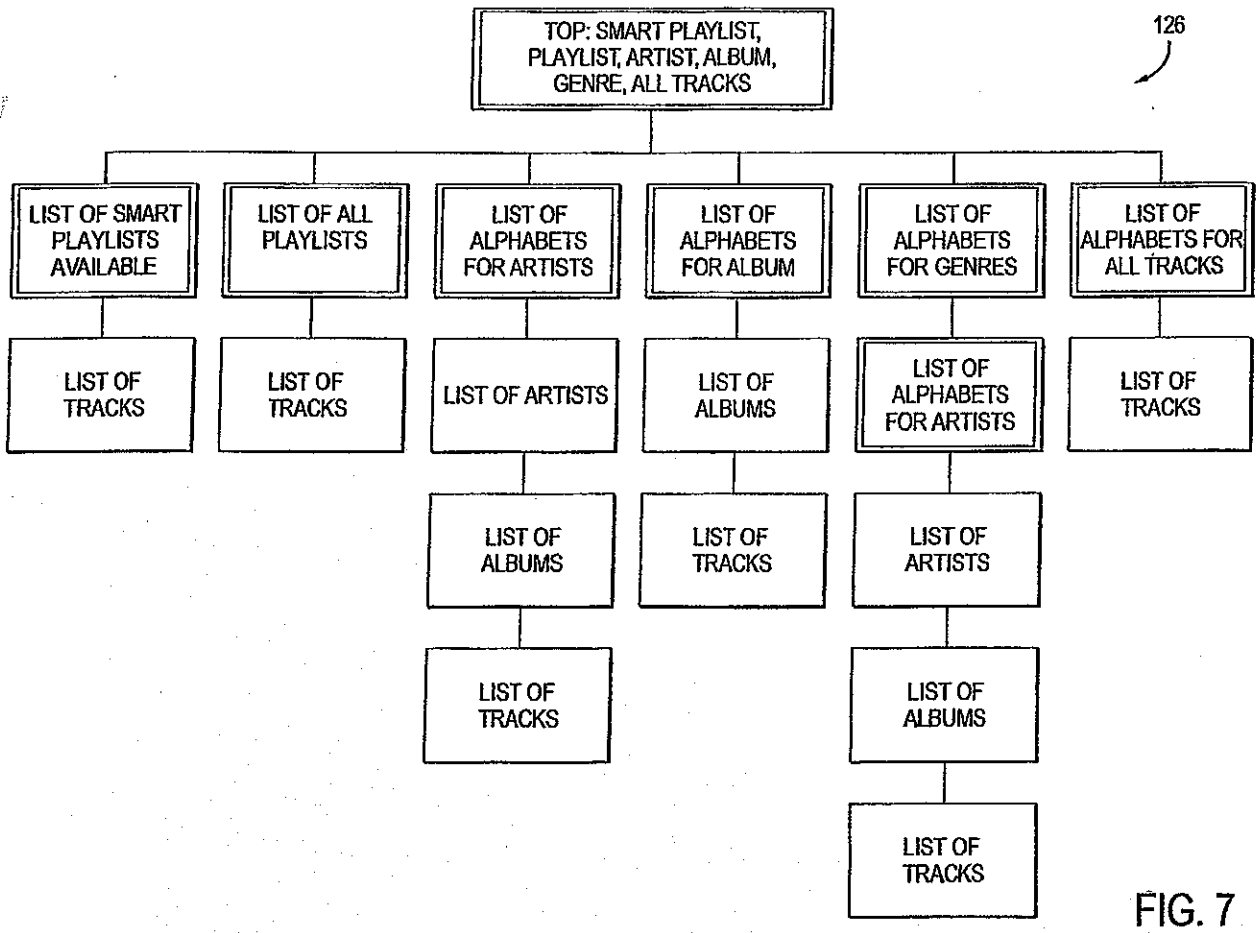

TOP: SMART PLAYLIST, PLAYLIST, ARTIST, ALBUM, GENRE, ALL TRACKS
126
LIST OF SMART PLAYLISTS AVAILABLE
LIST OF ALL PLAYLISTS
LIST OF ALPHABETS FOR ARTISTS
LIST OF ALPHABETS FOR ALBUM
LIST OF ALPHABETS FOR GENRES
LIST OF ALPHABETS FOR ALL TRACKS
LIST OF TRACKS
LIST OF TRACKS
LIST OF ARTISTS
LIST OF ALBUMS
LIST OF ALPHABETS FOR ARTISTS
LIST OF TRACKS
LIST OF ALBUMS
LIST OF TRACKS
LIST OF ARTISTS
LIST OF TRACKS
LIST OF ALBUMS
LIST OF TRACKS

FIG. 7

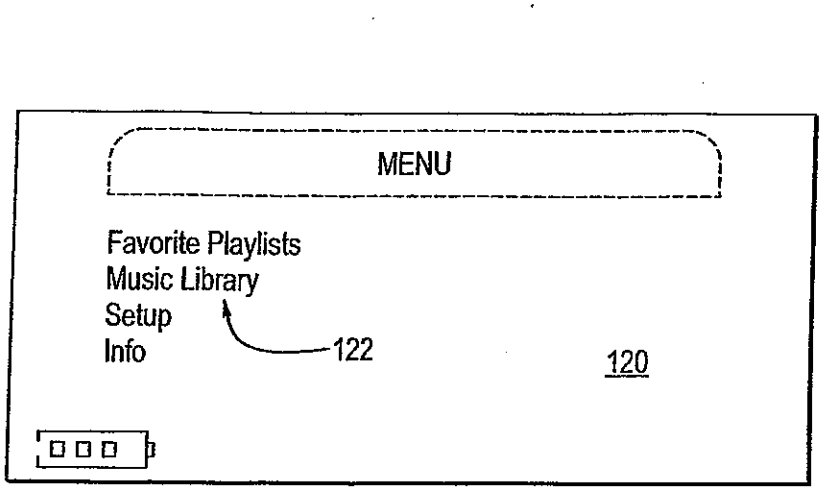

36
MENU
Favorite Playlists
Music Library
Setup
Info
122
120

FIG. 8

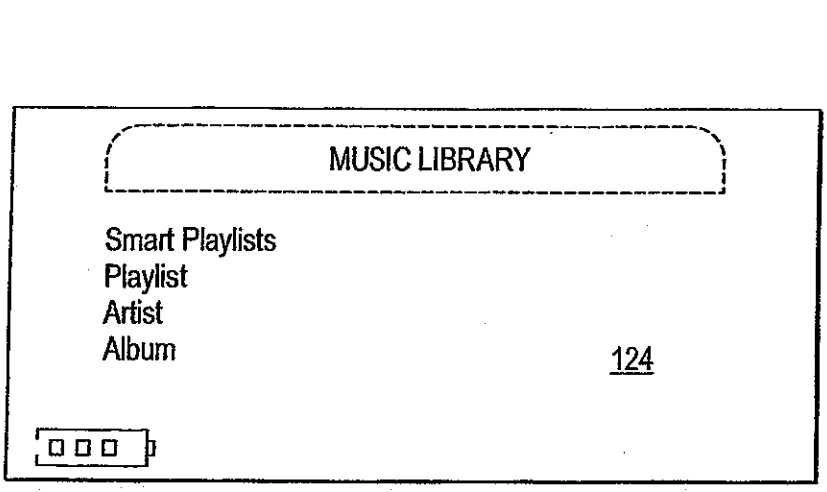

36
MUSIC LIBRARY
Smart Playlists
Playlist
Artist
Album
124

FIG. 9

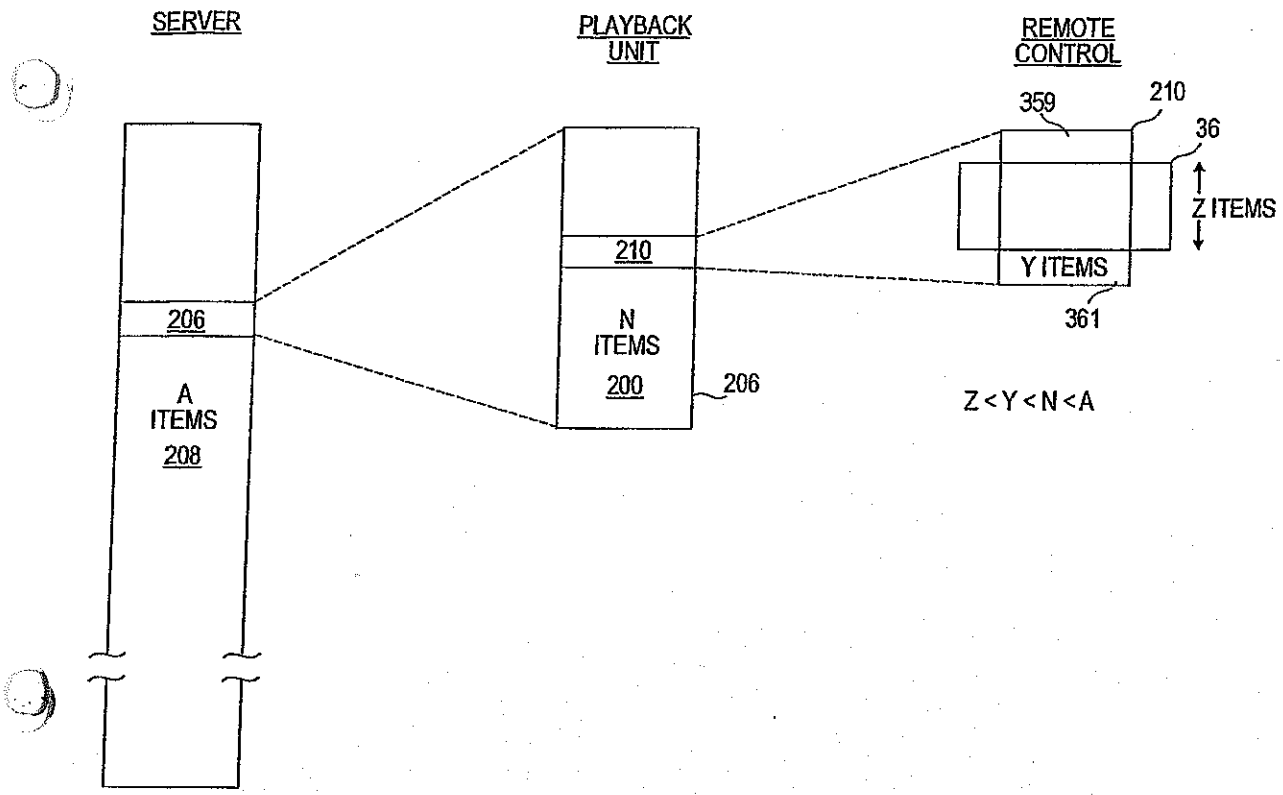

SERVER
PLAYBACK UNIT
REMOTE CONTROL
359
210
36
Z ITEMS
210
Y ITEMS
206
N ITEMS
200
206
361
A ITEMS
208
Z<Y<N<A

FIG. 11

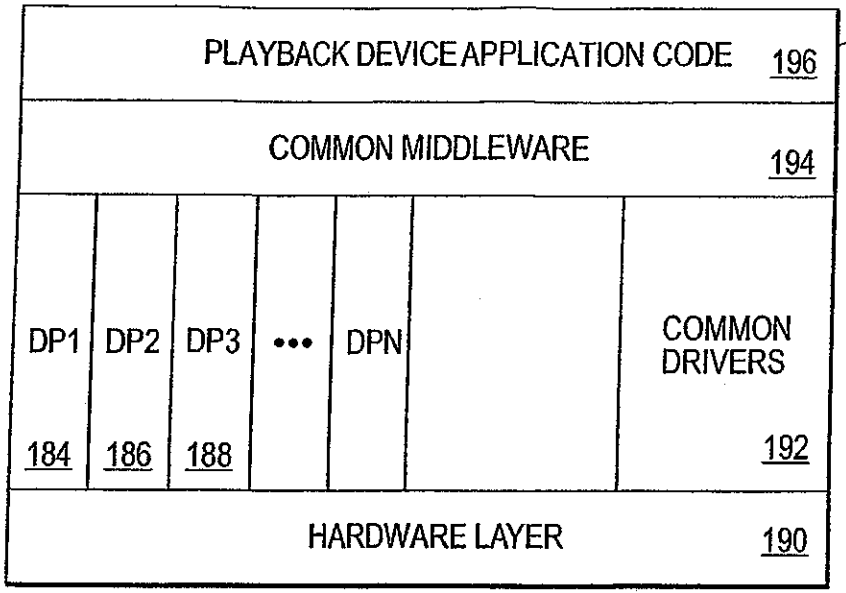

PLAYBACK DEVICE APPLICATION CODE
196
160, 162, 164
COMMON MIDDLEWARE
194
DP1
DP2
DP3
•••
DPN
COMMON DRIVERS
184
186
188
192
HARDWARE LAYER
190

FIG. 12

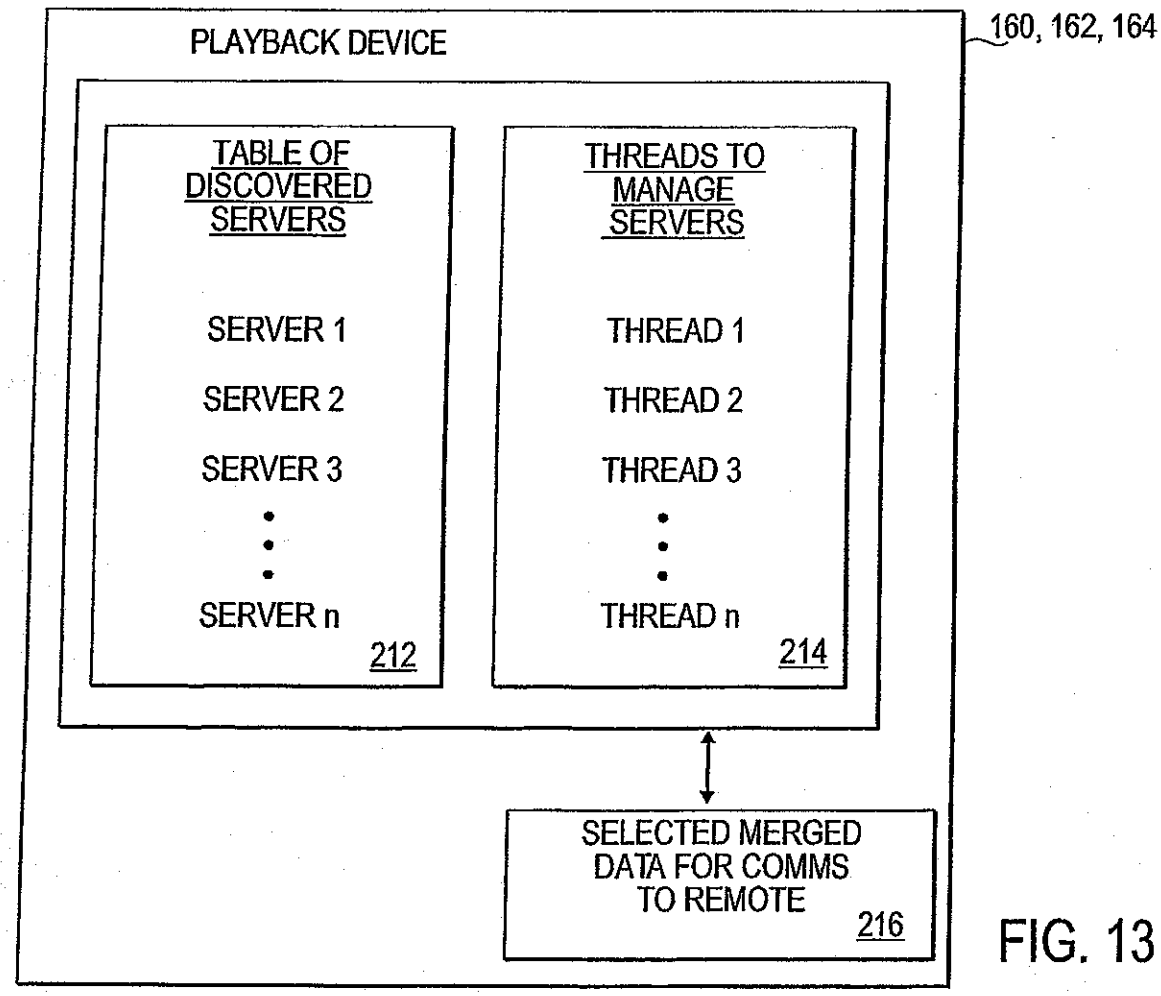

PLAYBACK DEVICE
160, 162, 164
TABLE OF DISCOVERED SERVERS
SERVER 1
SERVER 2
SERVER 3
SERVER n
212
THREADS TO MANAGE SERVERS
THREAD 1
THREAD 2
THREAD 3
THREAD n
214
SELECTED MERGED DATA FOR COMMS TO REMOTE
216

FIG. 13

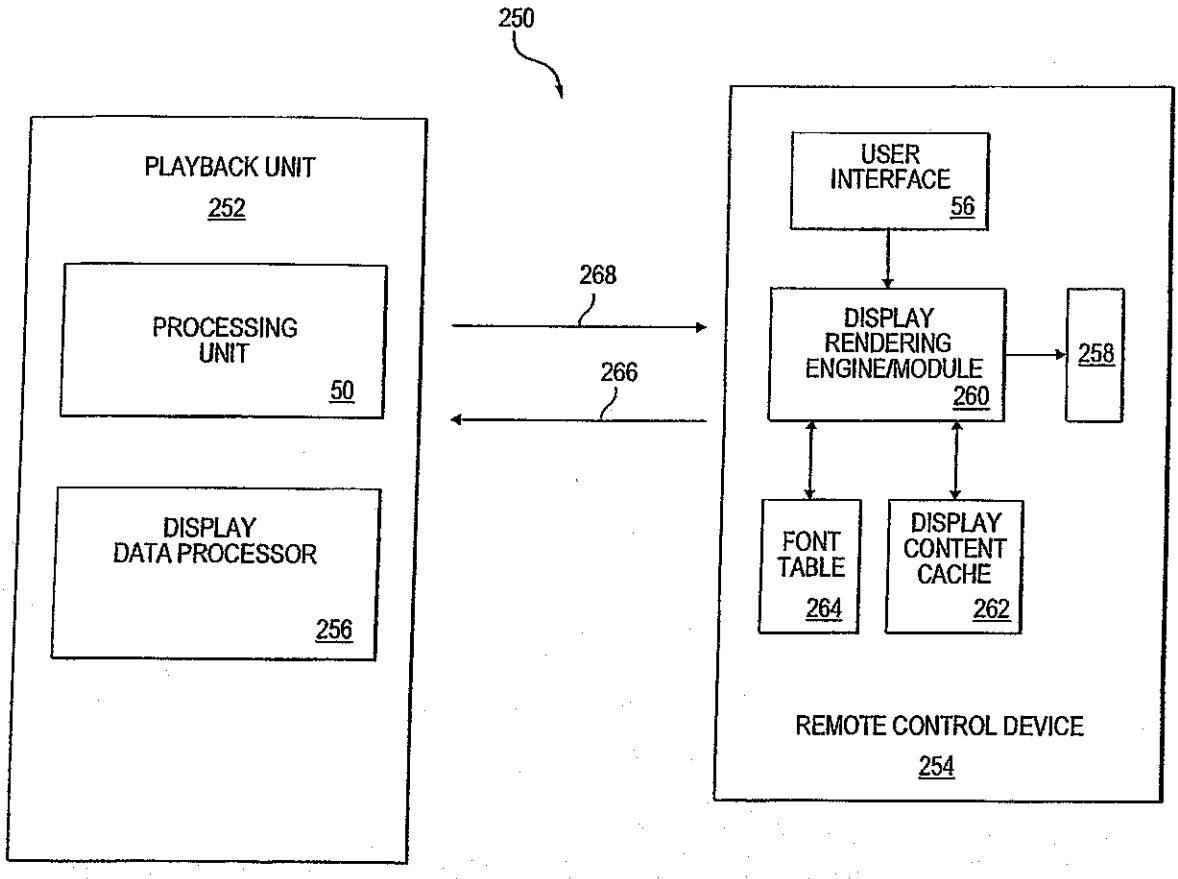

250
PLAYBACK UNIT
252
PROCESSING UNIT
50
DISPLAY DATA PROCESSOR
256
268
266
USER INTERFACE
56
DISPLAY RENDERING ENGINE/MODULE
260
258
FONT TABLE
264
DISPLAY CONTENT CACHE
262
REMOTE CONTROL DEVICE
254

FIG. 14

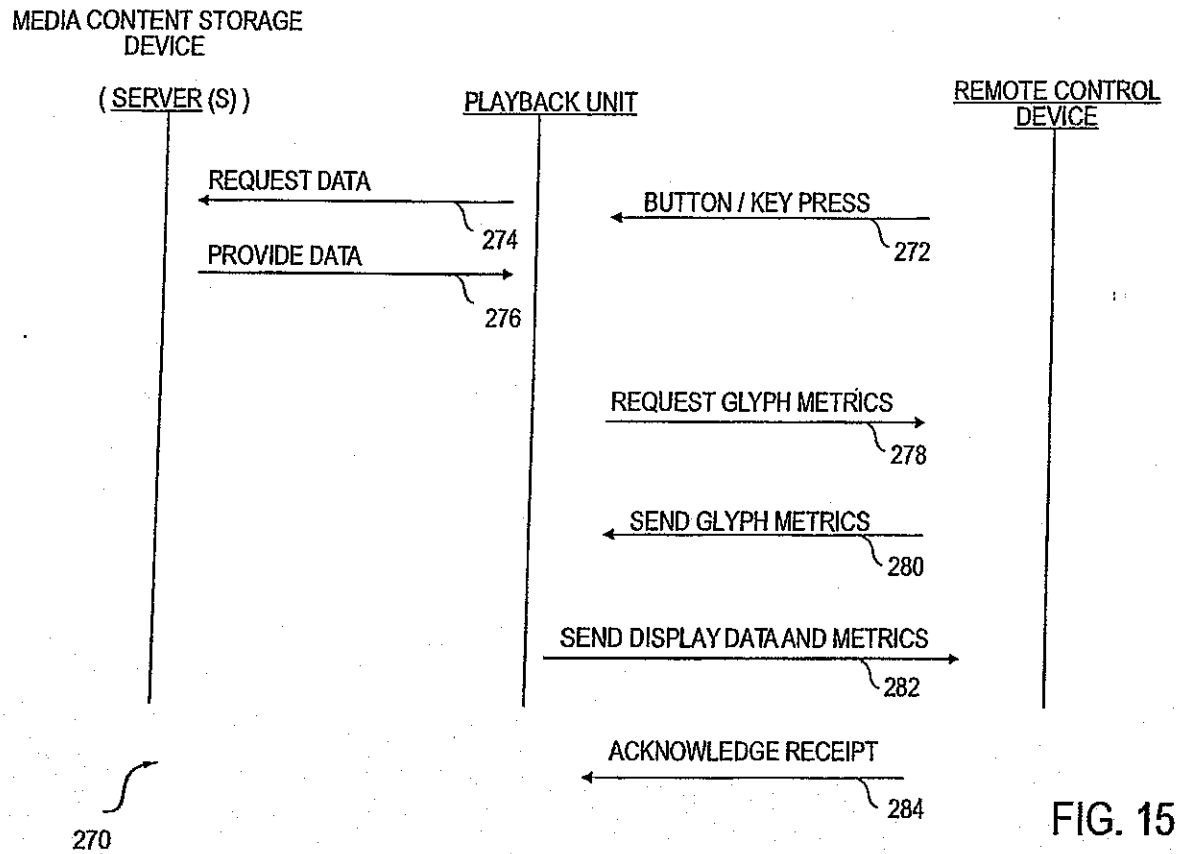

MEDIA CONTENT STORAGE DEVICE
(SERVER (S))
PLAYBACK UNIT
REMOTE CONTROL DEVICE
REQUEST DATA
274
BUTTON / KEY PRESS
272
PROVIDE DATA
276
REQUEST GLYPH METRICS
278
SEND GLYPH METRICS
280
SEND DISPLAY DATA AND METRICS
282
ACKNOWLEDGE RECEIPT
284
270

FIG. 15

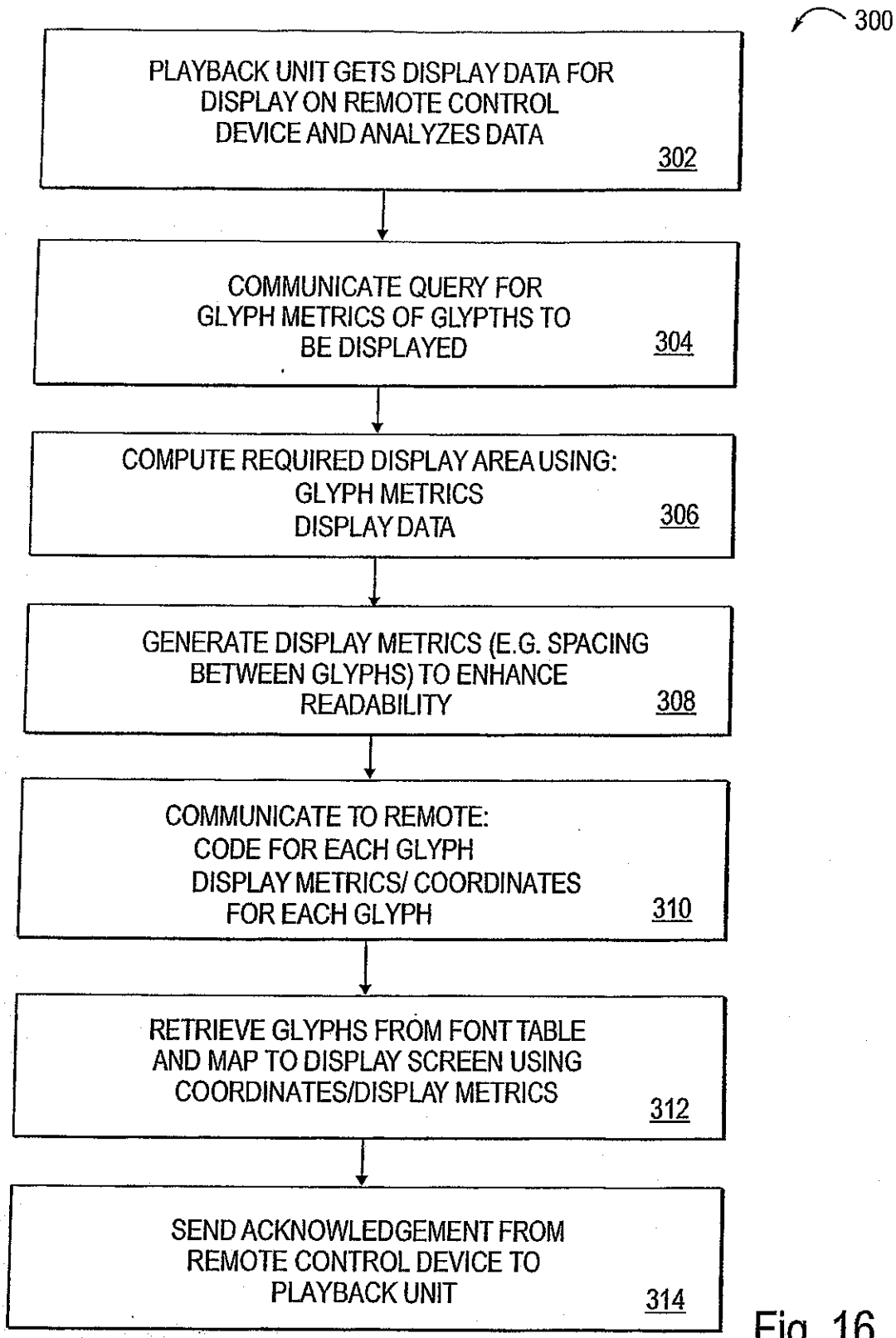

300
PLAYBACK UNIT GETS DISPLAY DATA FOR DISPLAY ON REMOTE CONTROL DEVICE AND ANALYZES DATA
302
COMMUNICATE QUERY FOR GLYPH METRICS OF GLYPTHS TO BE DISPLAYED
304
COMPUTE REQUIRED DISPLAY AREA USING: GLYPH METRICS DISPLAY DATA
306
GENERATE DISPLAY METRICS (E.G. SPACING BETWEEN GLYPHS) TO ENHANCE READABILITY
308
COMMUNICATE TO REMOTE: CODE FOR EACH GLYPH DISPLAY METRICS/ COORDINATES FOR EACH GLYPH
310
RETRIEVE GLYPHS FROM FONT TABLE AND MAP TO DISPLAY SCREEN USING COORDINATES/DISPLAY METRICS
312
SEND ACKNOWLEDGEMENT FROM REMOTE CONTROL DEVICE TO PLAYBACK UNIT
314

Fig. 16

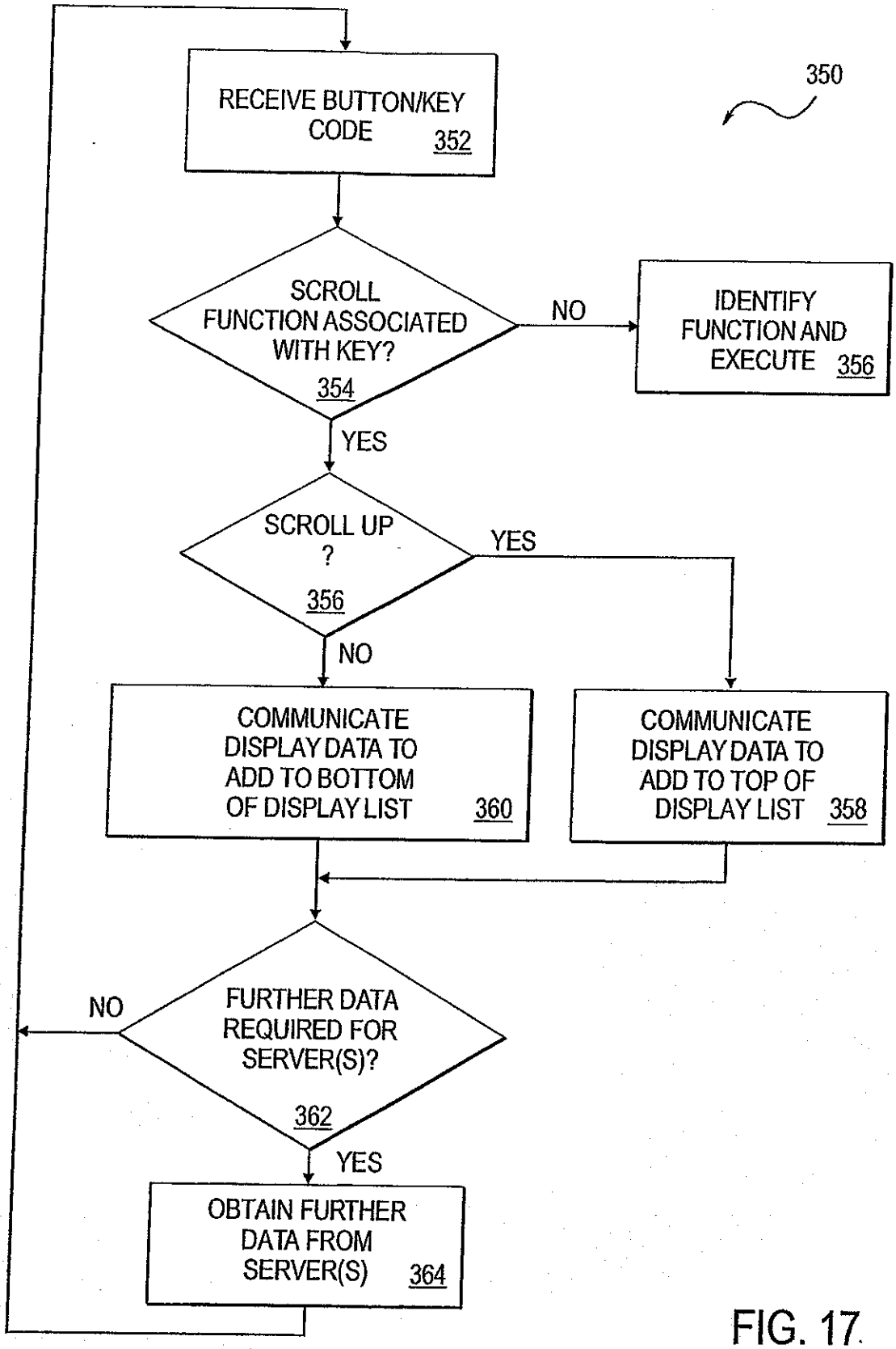

350
RECEIVE BUTTON/KEY CODE 352
SCROLL FUNCTION ASSOCIATED WITH KEY? 354
NO
IDENTIFY FUNCTION AND EXECUTE 356
YES
SCROLL UP ? 356
YES
NO
COMMUNICATE DISPLAY DATA TO ADD TO BOTTOM OF DISPLAY LIST 360
COMMUNICATE DISPLAY DATA TO ADD TO TOP OF DISPLAY LIST 358
NO
FURTHER DATA REQUIRED FOR SERVER(S)? 362
YES
OBTAIN FURTHER DATA FROM SERVER(S) 364

FIG. 17.

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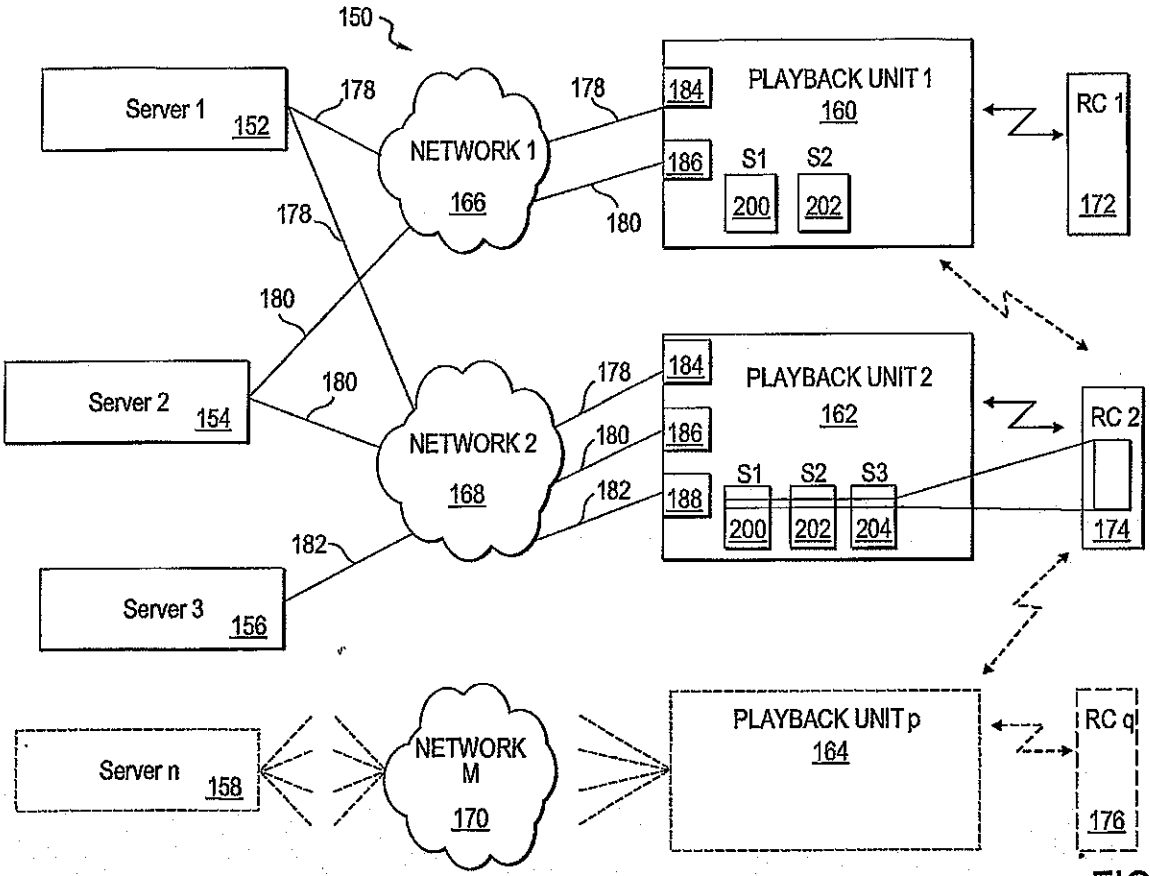


FIG. 10

SUBSTITUTE SHEET (RULE 26)