

Patent Portfolio of Creative Technology Ltd

Brahim Hamadicharef

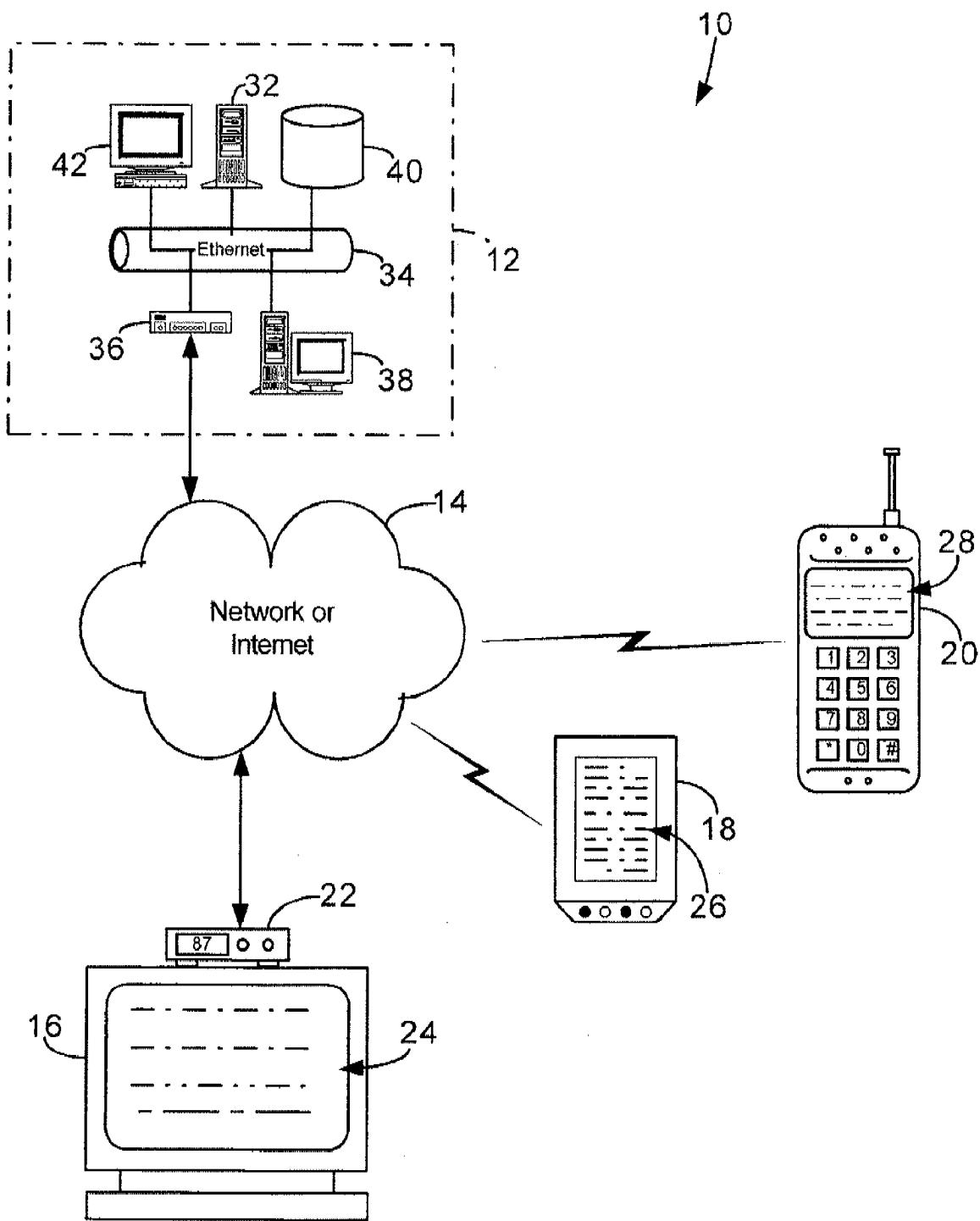


Fig. 1. Image display system with visual server (US8560643)

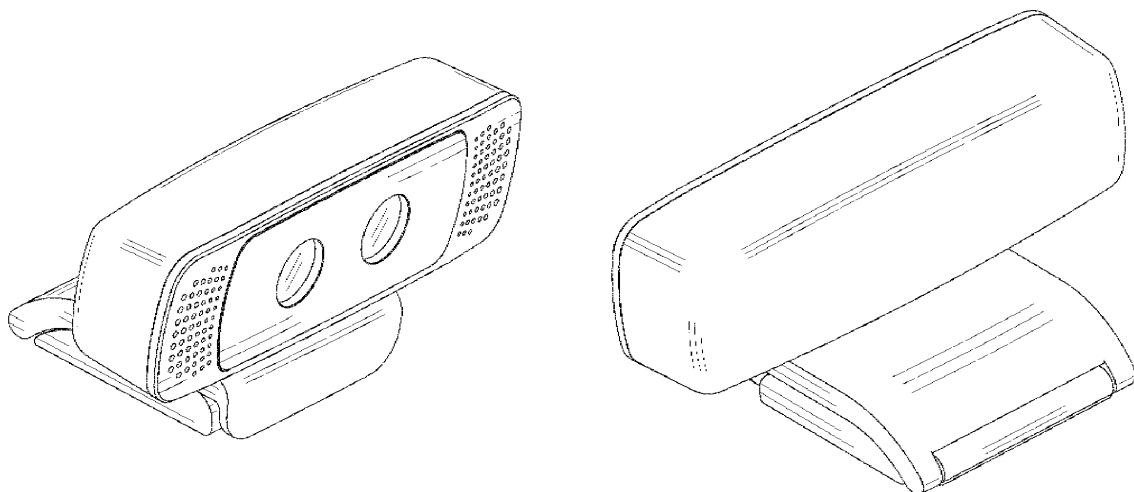


Fig. 2. Camera (USD709117)

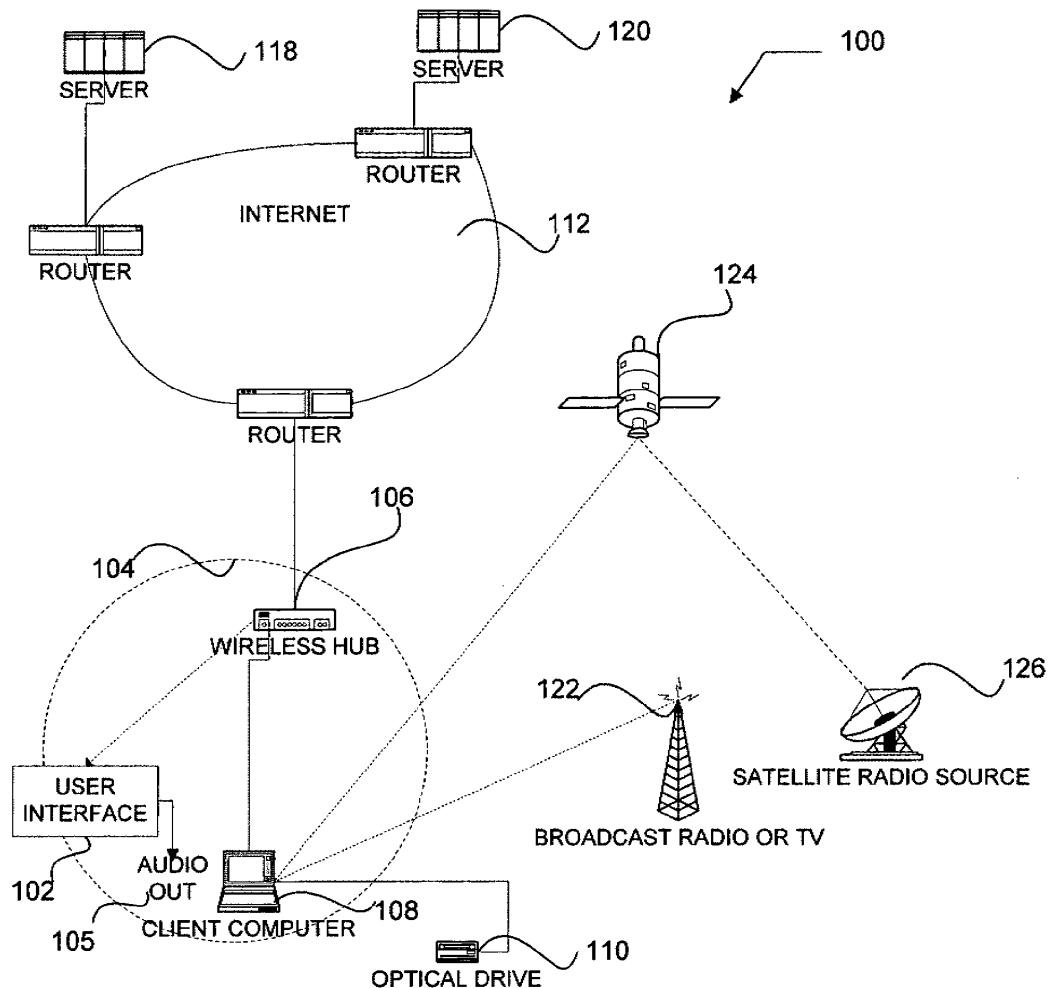


Fig. 3. System and method for accessing storing and rendering digital media content using virtual broadcast channels (US2019155841)

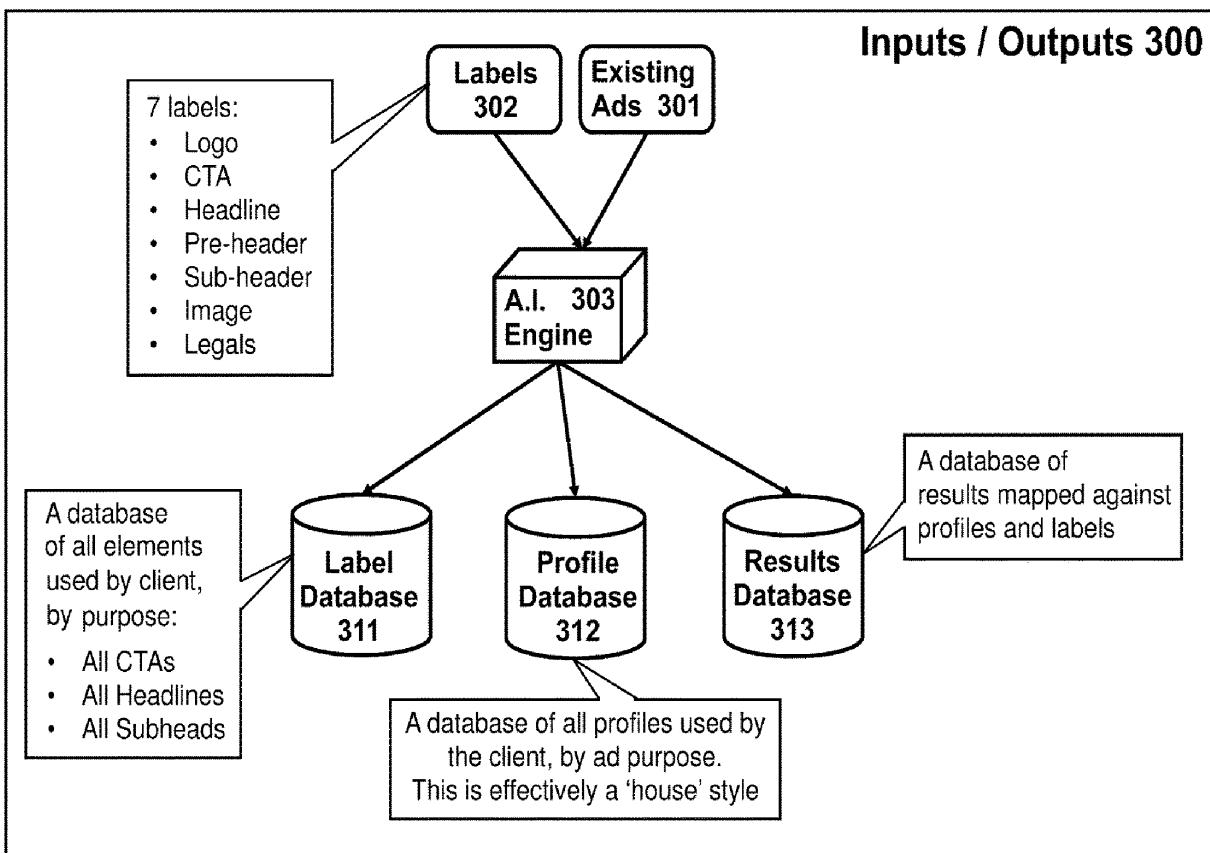


Fig. 4. System Device and Method of Automatic Construction of Digital Advertisements (US2019392487)

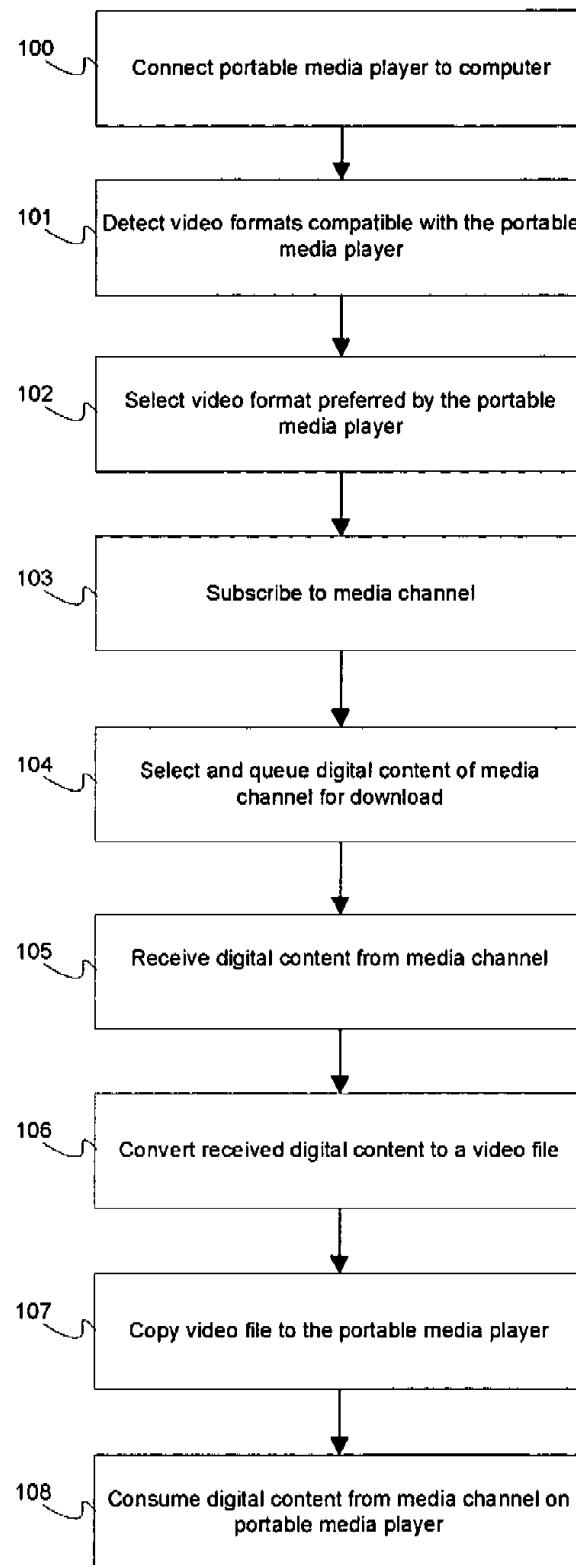


Fig. 5. System for downloading digital content published in a media channel (US7793206)

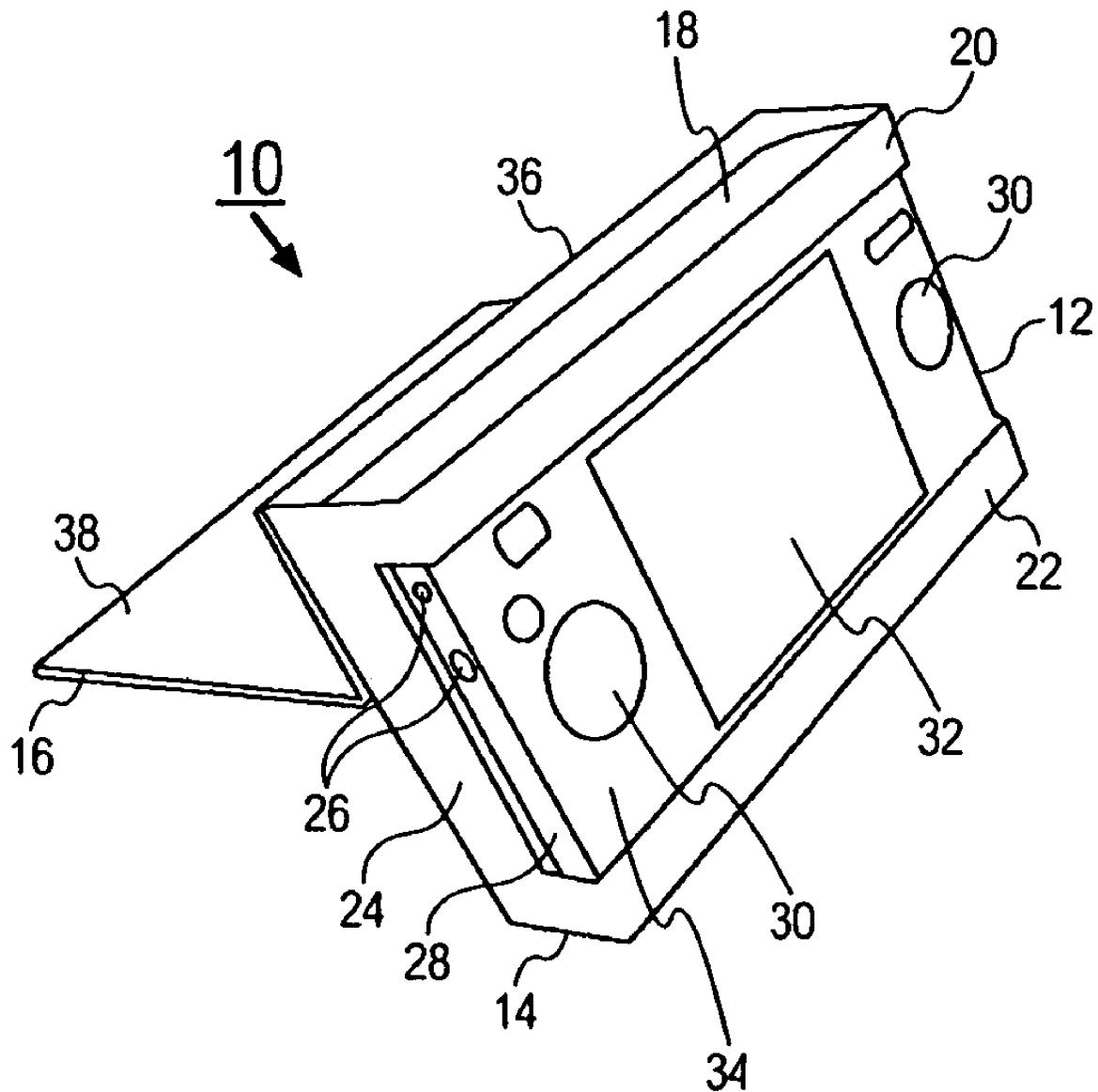


Fig. 6. Pouch with integrated stand (US7318521)

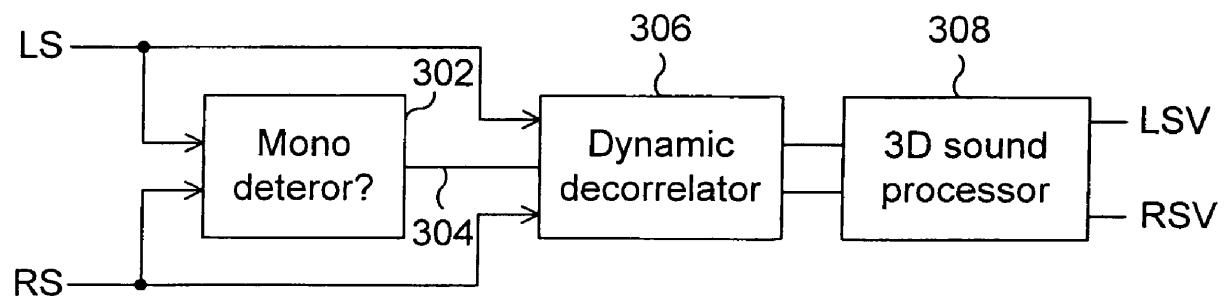


Fig. 7. Dynamic decorrelator for audio signals (US7177431)

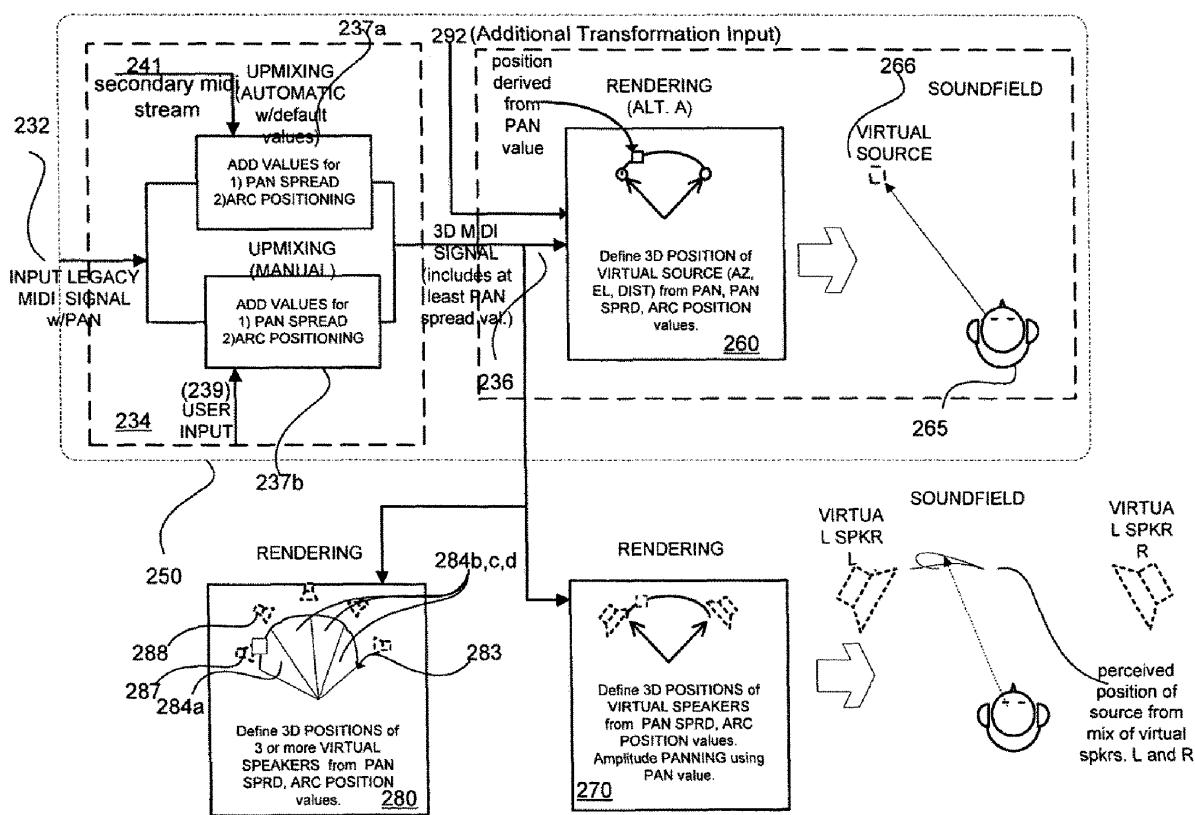


Fig. 8. System and method for forming and rendering 3D MIDI messages (US9924289)

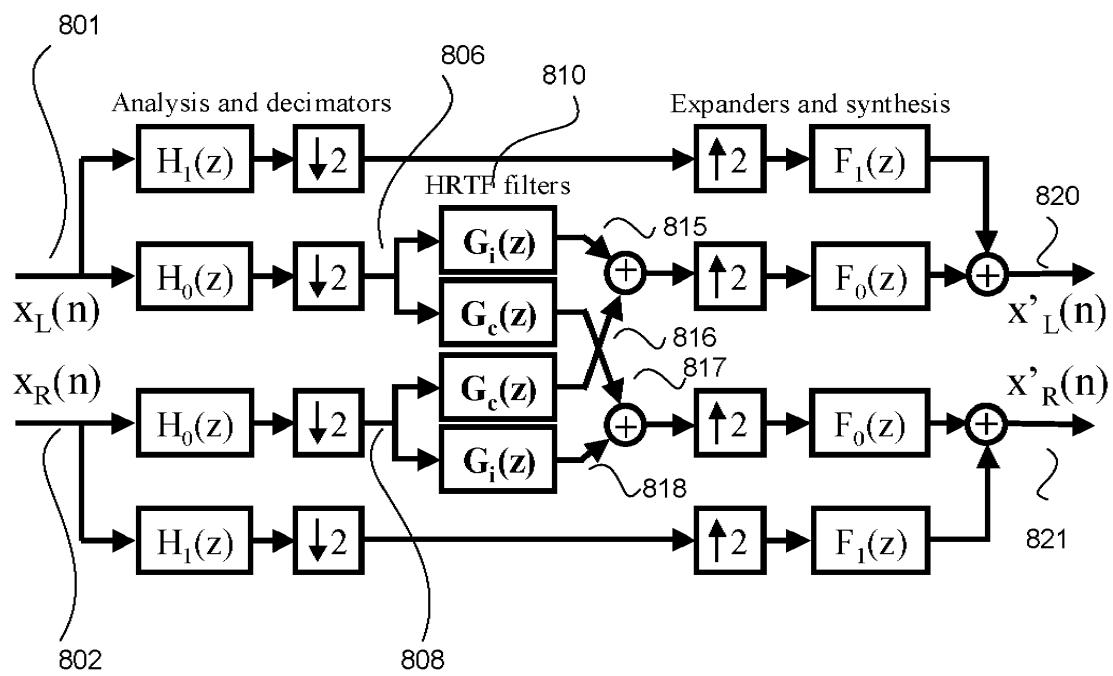


Fig. 9. Alias free subband processing (US9754597)

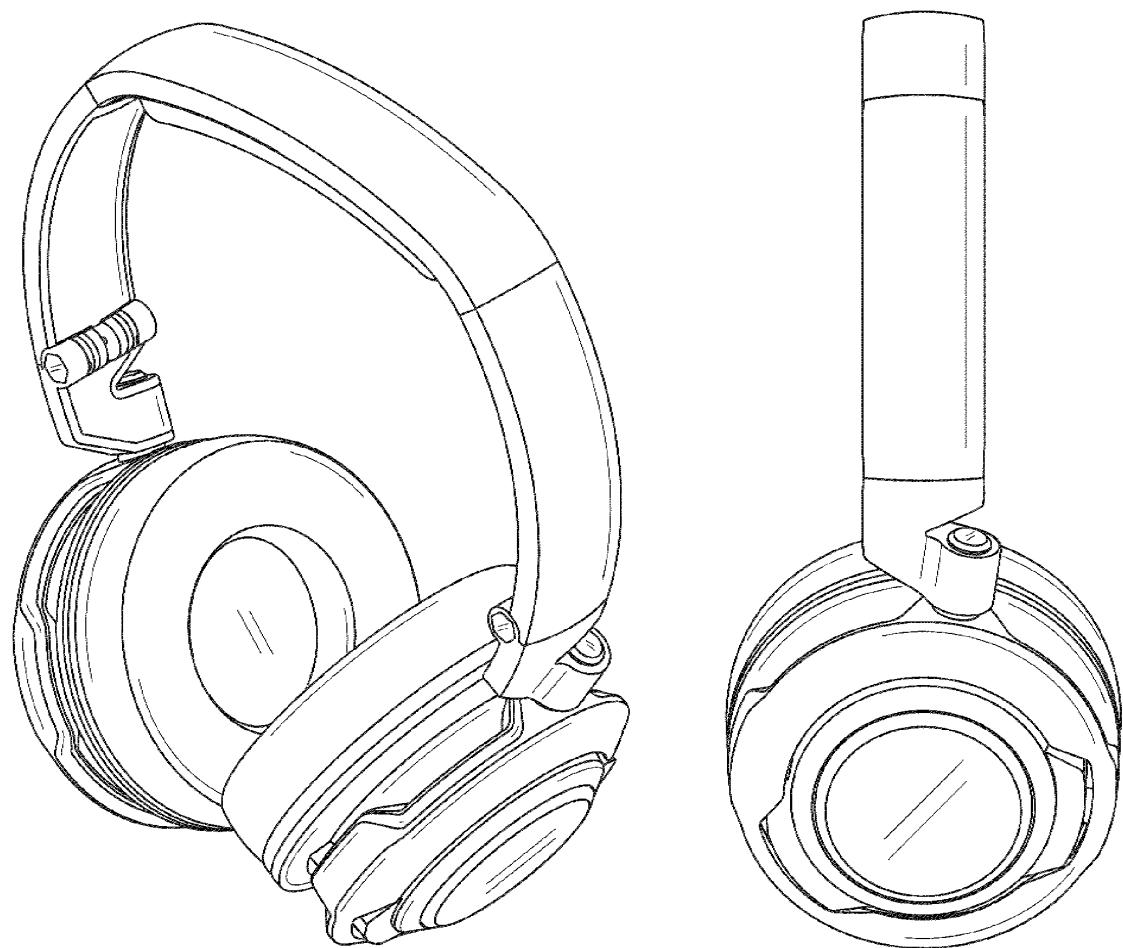


Fig. 10. Headphone (USD711347)

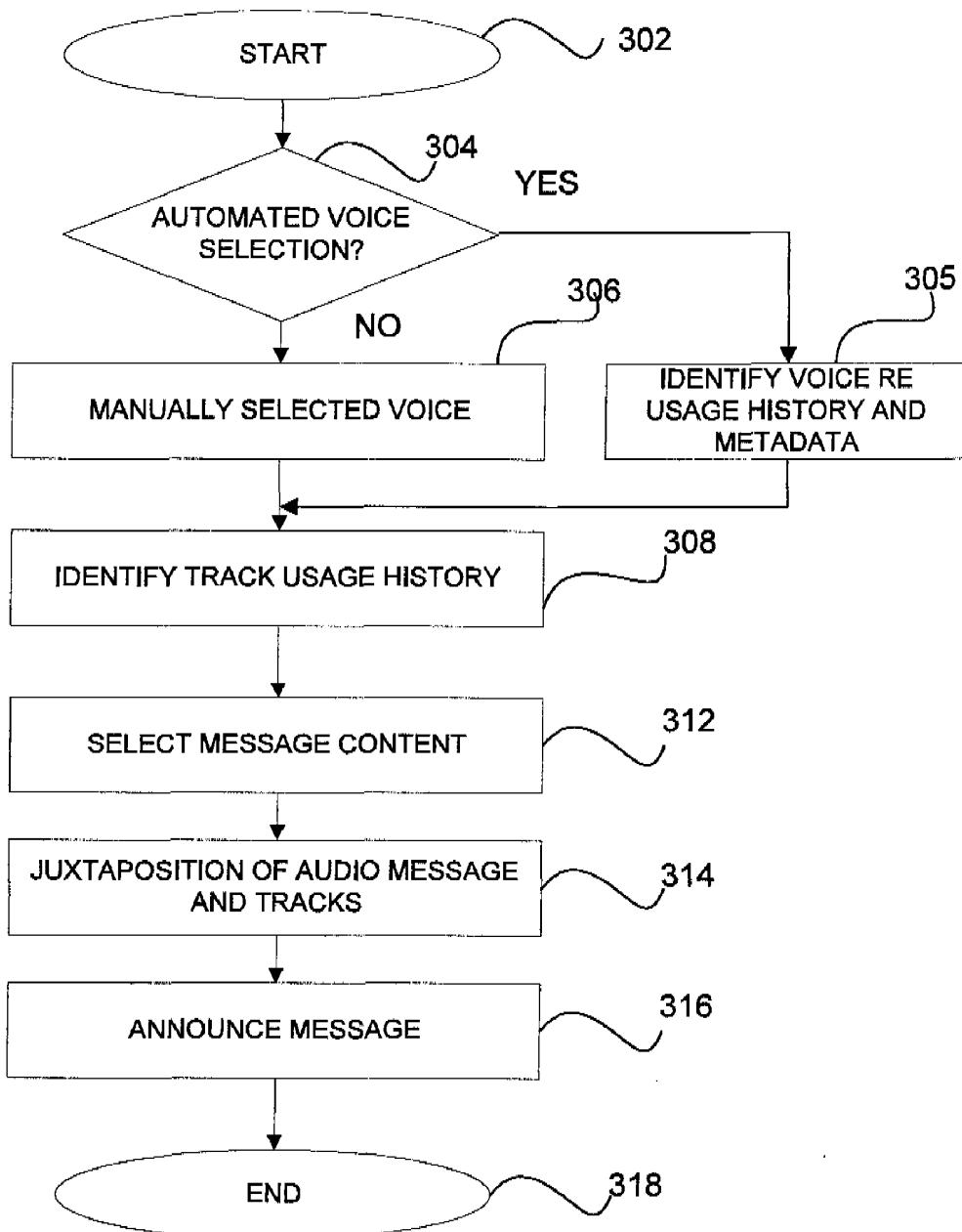


Fig. 11. System and method for personalizing the user interface of audio rendering devices (US8959437)

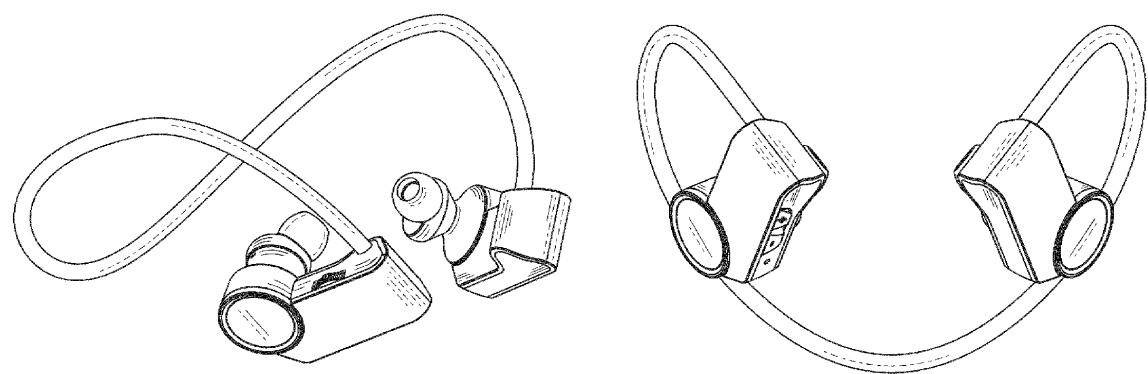


Fig. 12. Headphone (USD691580)

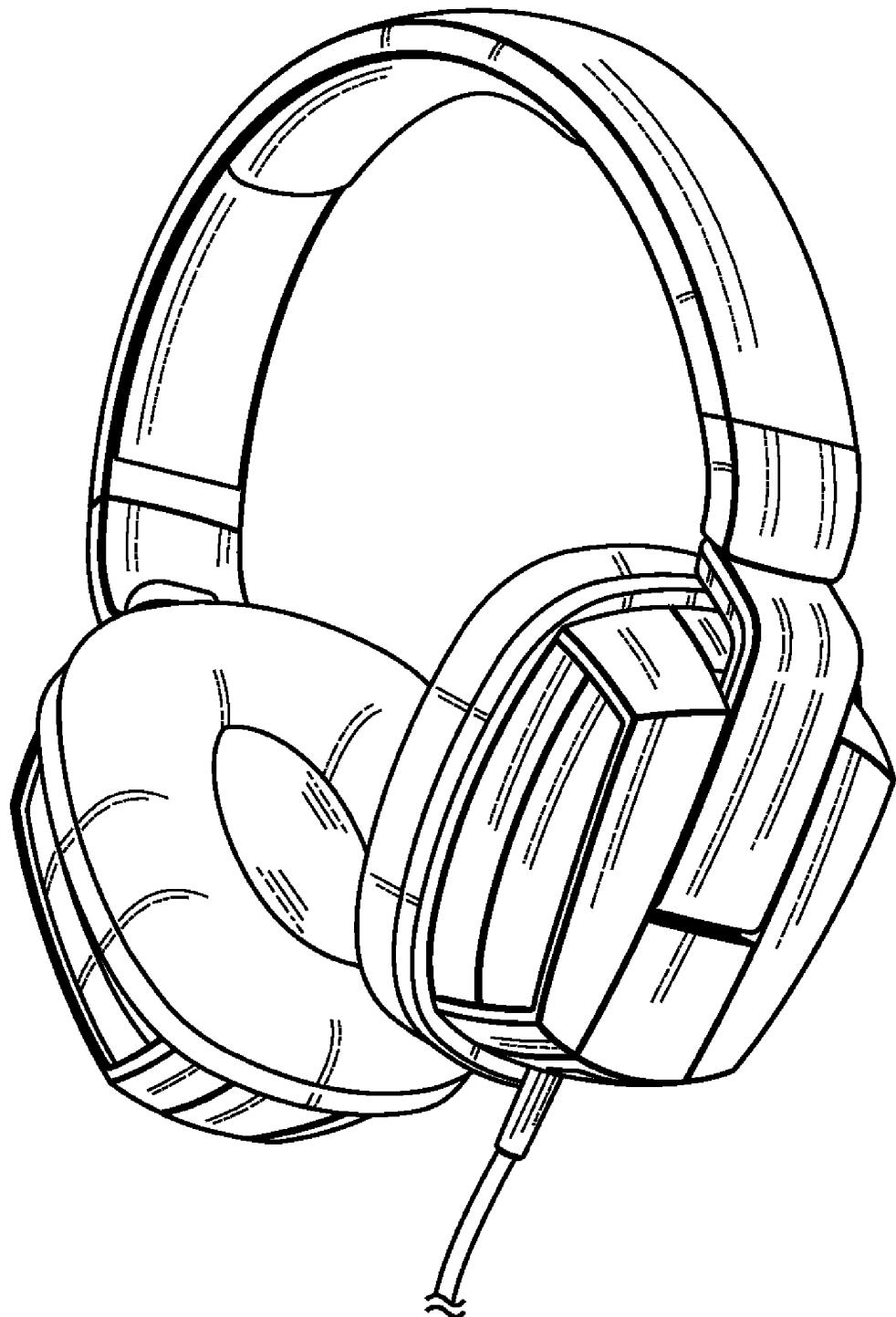


Fig. 13. Headphones (USD641725)

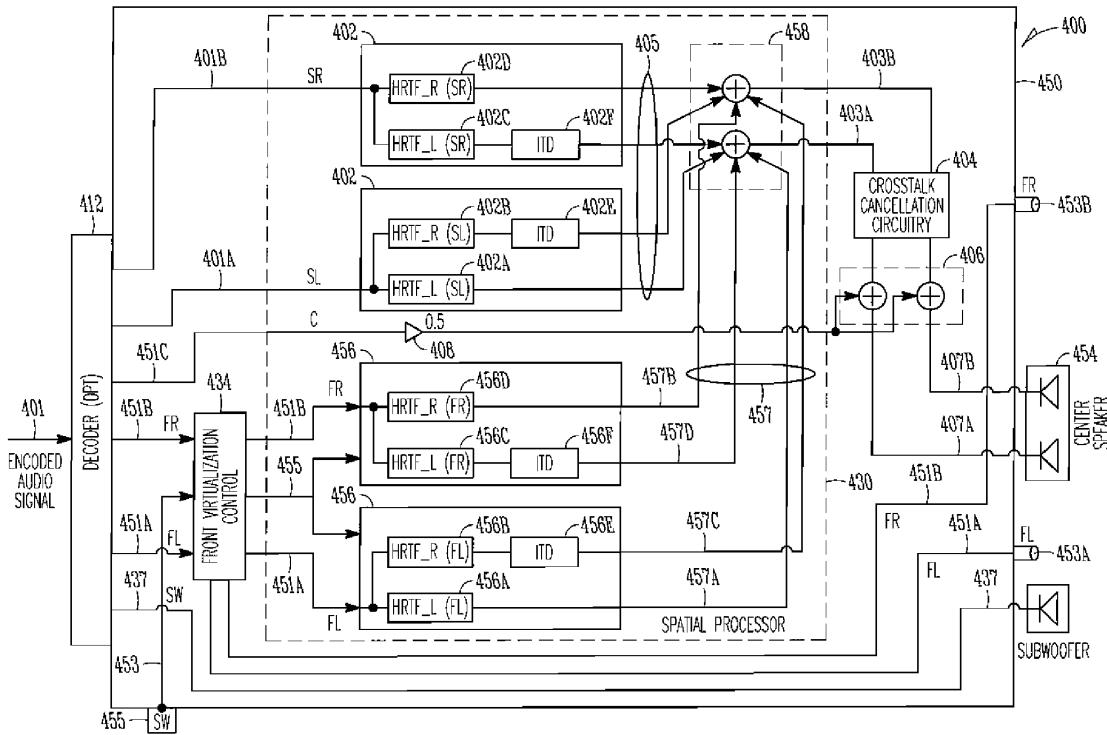


Fig. 14. Method for spatially processing multichannel signals processing module and virtual surround sound systems (US10034114)

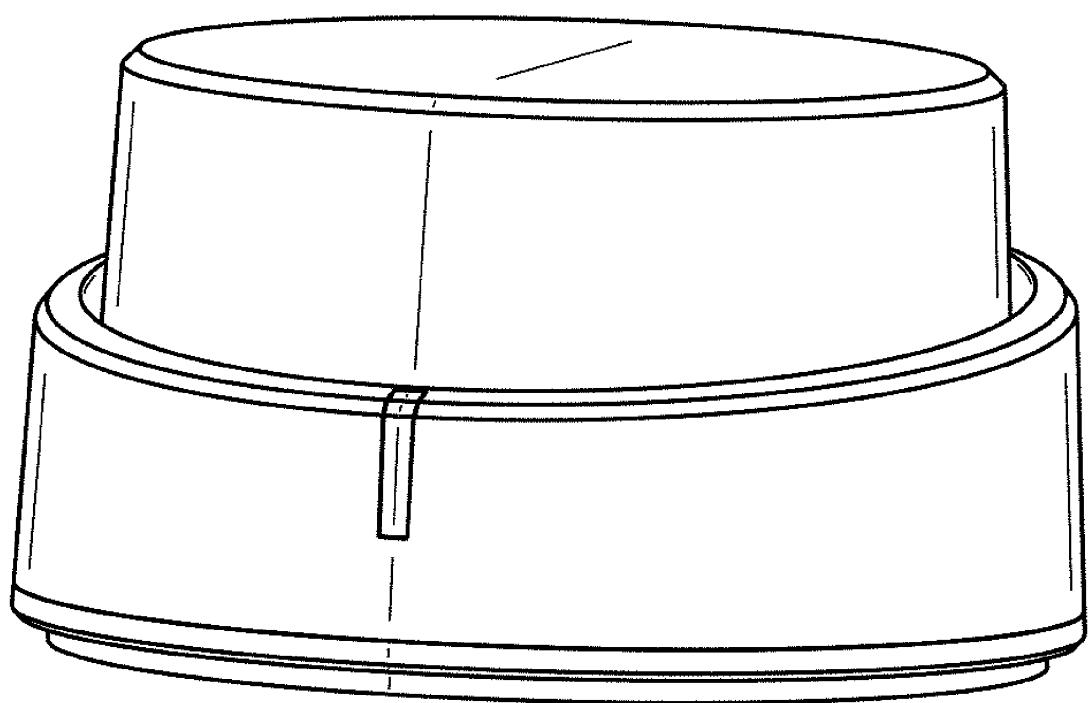


Fig. 15. Control module (USD816046)

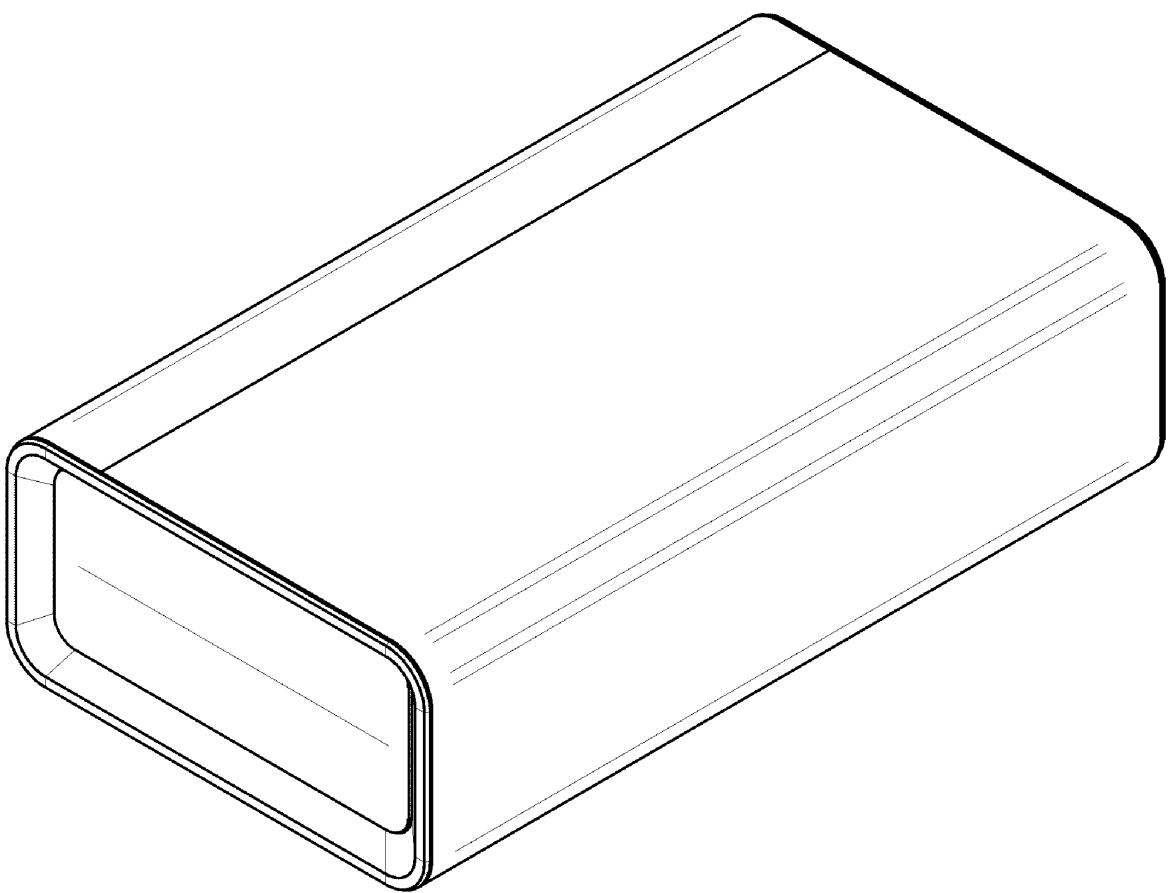


Fig. 16. Speaker (USD781812)

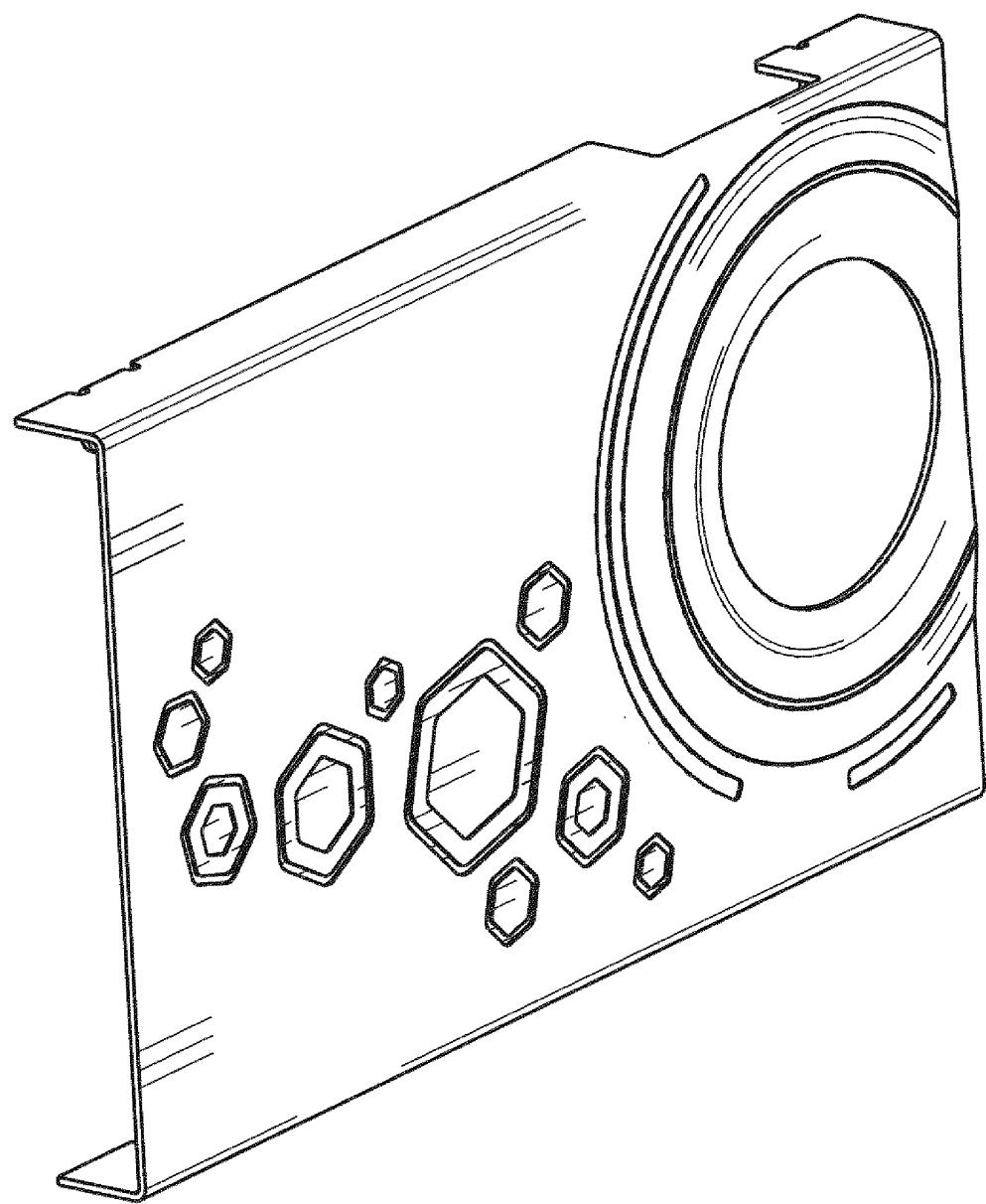


Fig. 17. Shield (USD694240)

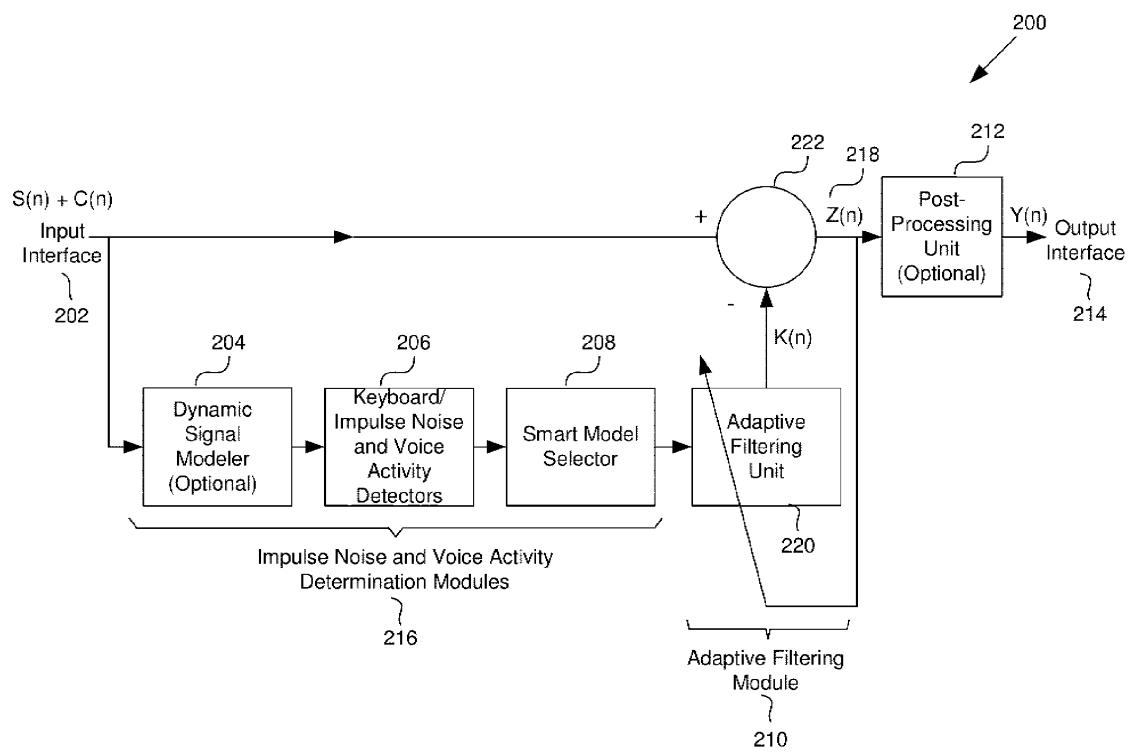


Fig. 18. Smart rejecter for keyboard click noise (US9286907)

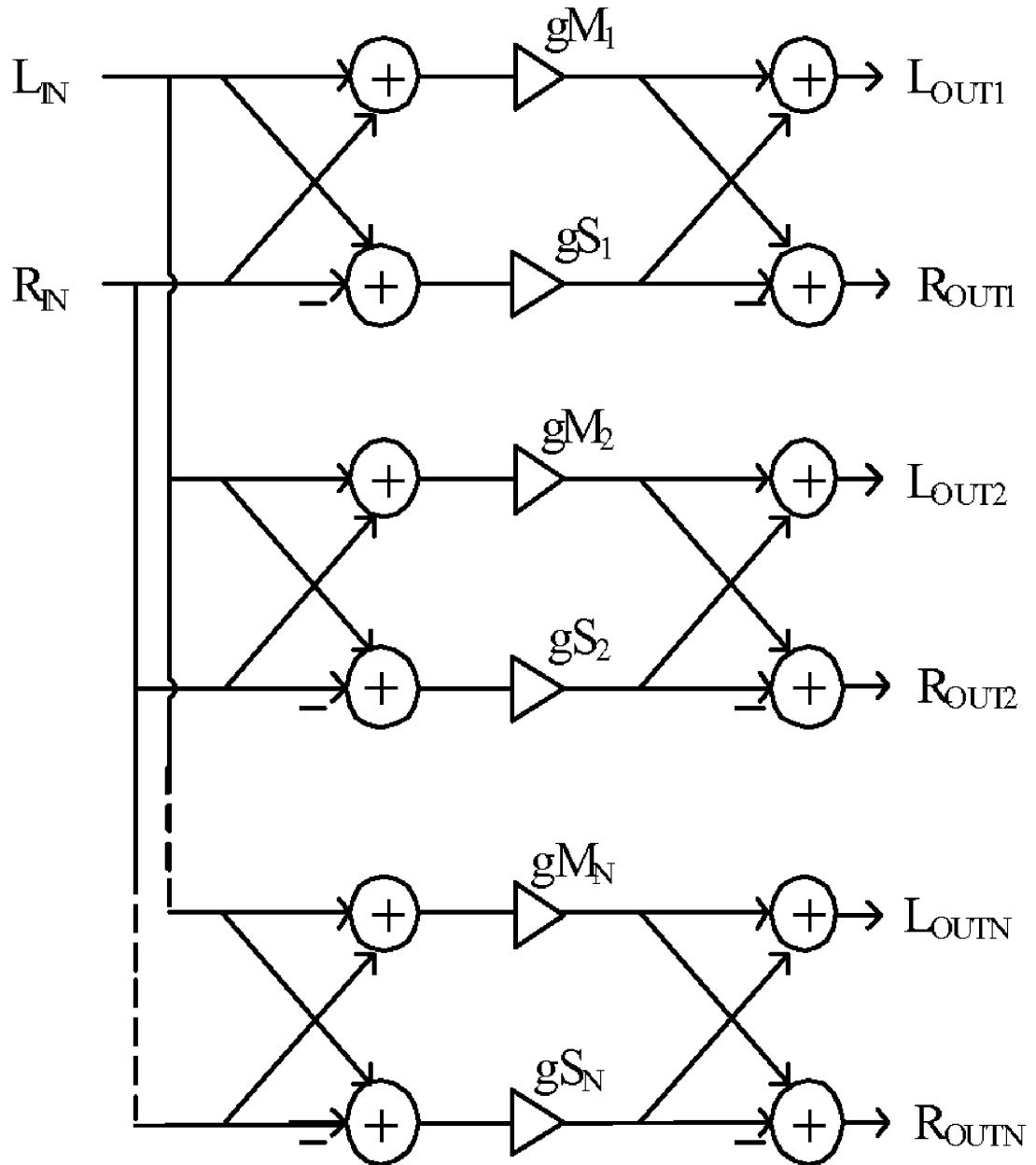


Fig. 19. Spatial audio enhancement processing method and apparatus (US10299056)

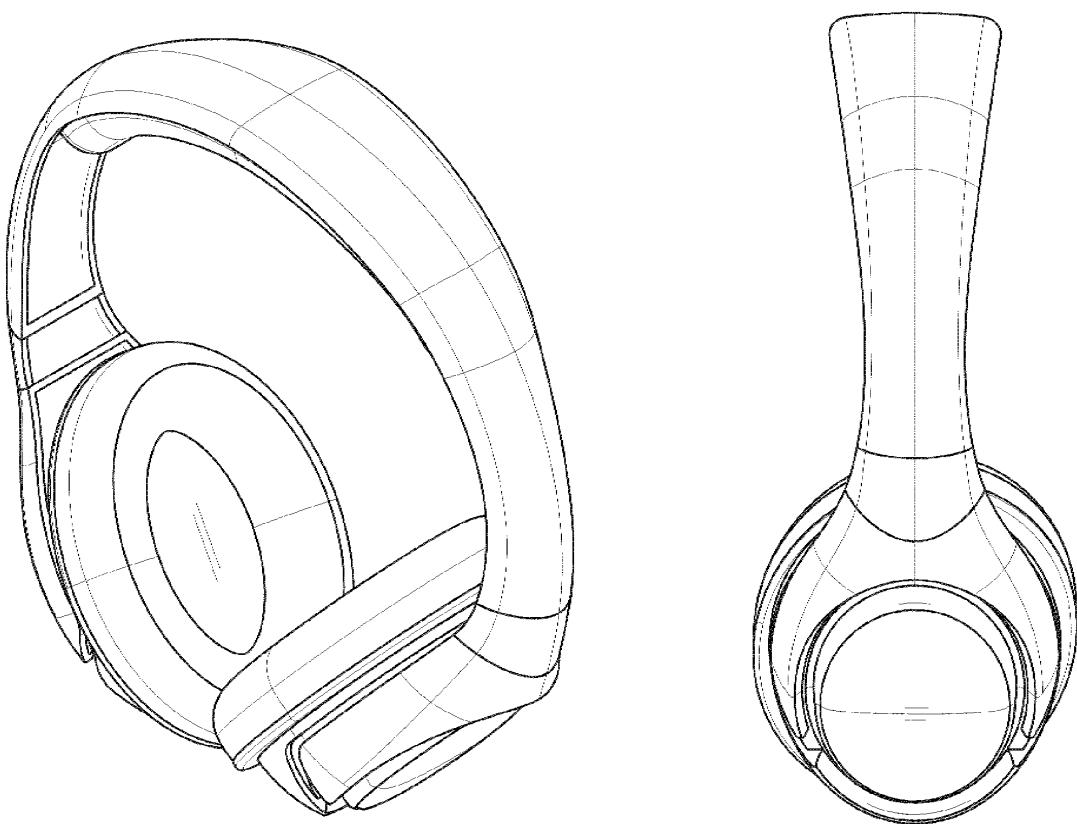


Fig. 20. Headphones (USD733092)

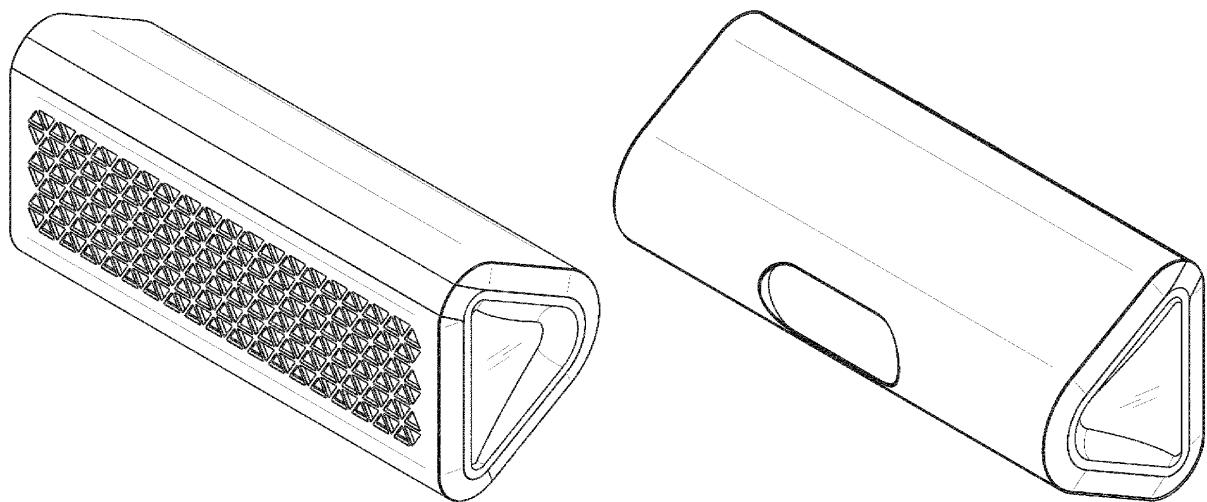


Fig. 21. Speaker (USD723515)

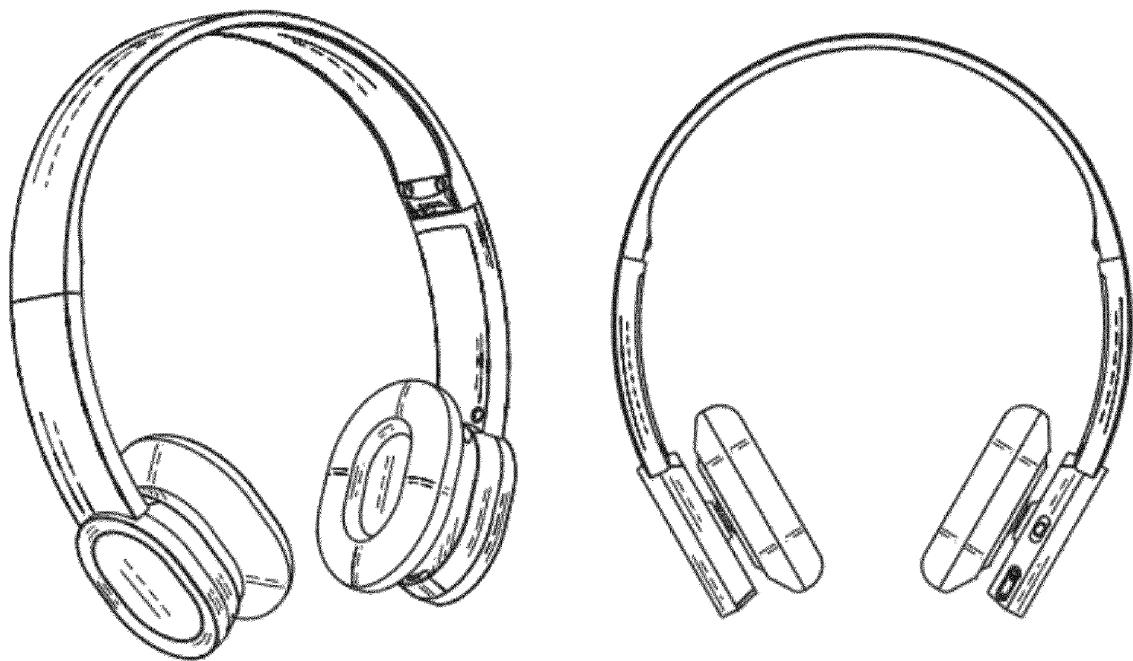


Fig. 22. Headphone (USD675595)

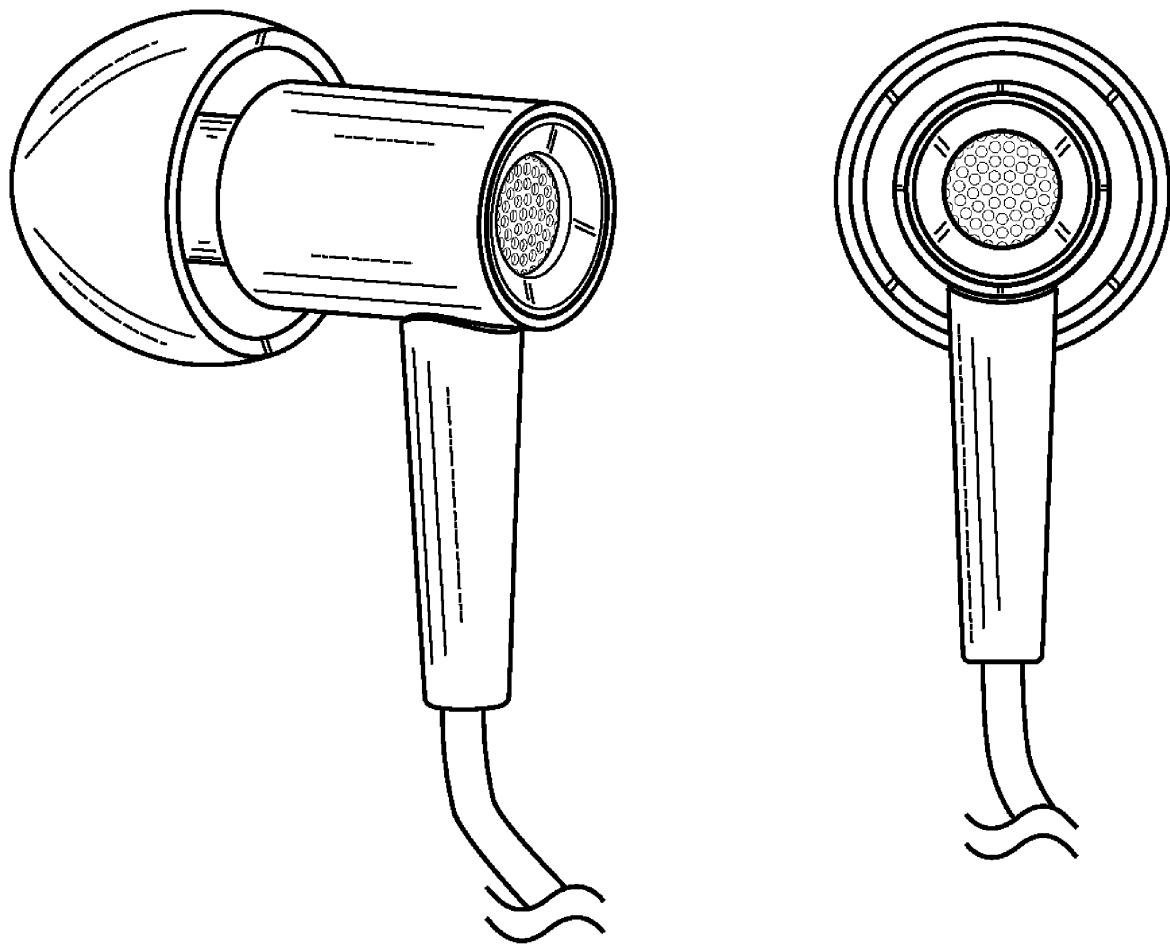


Fig. 23. Earphone (USD643416)

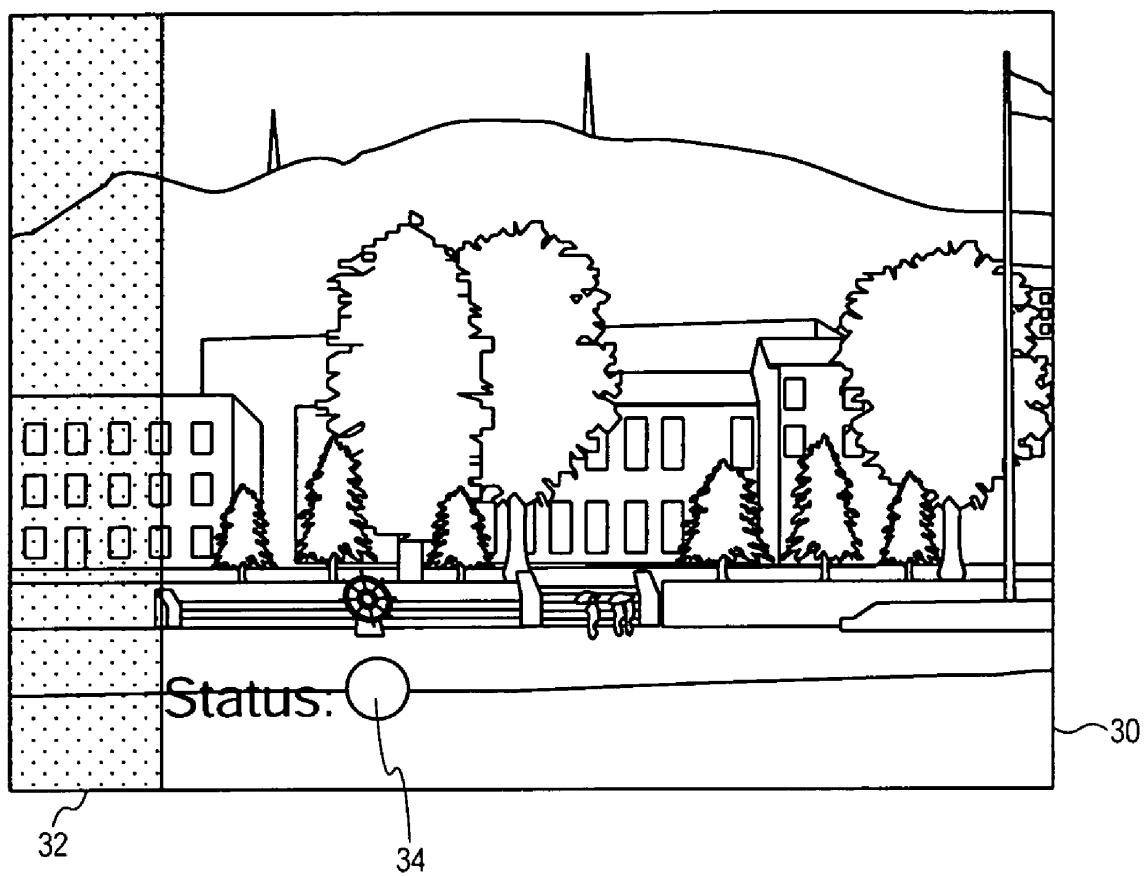


Fig. 24. Method and apparatus for forming a panoramic image (US7646400)

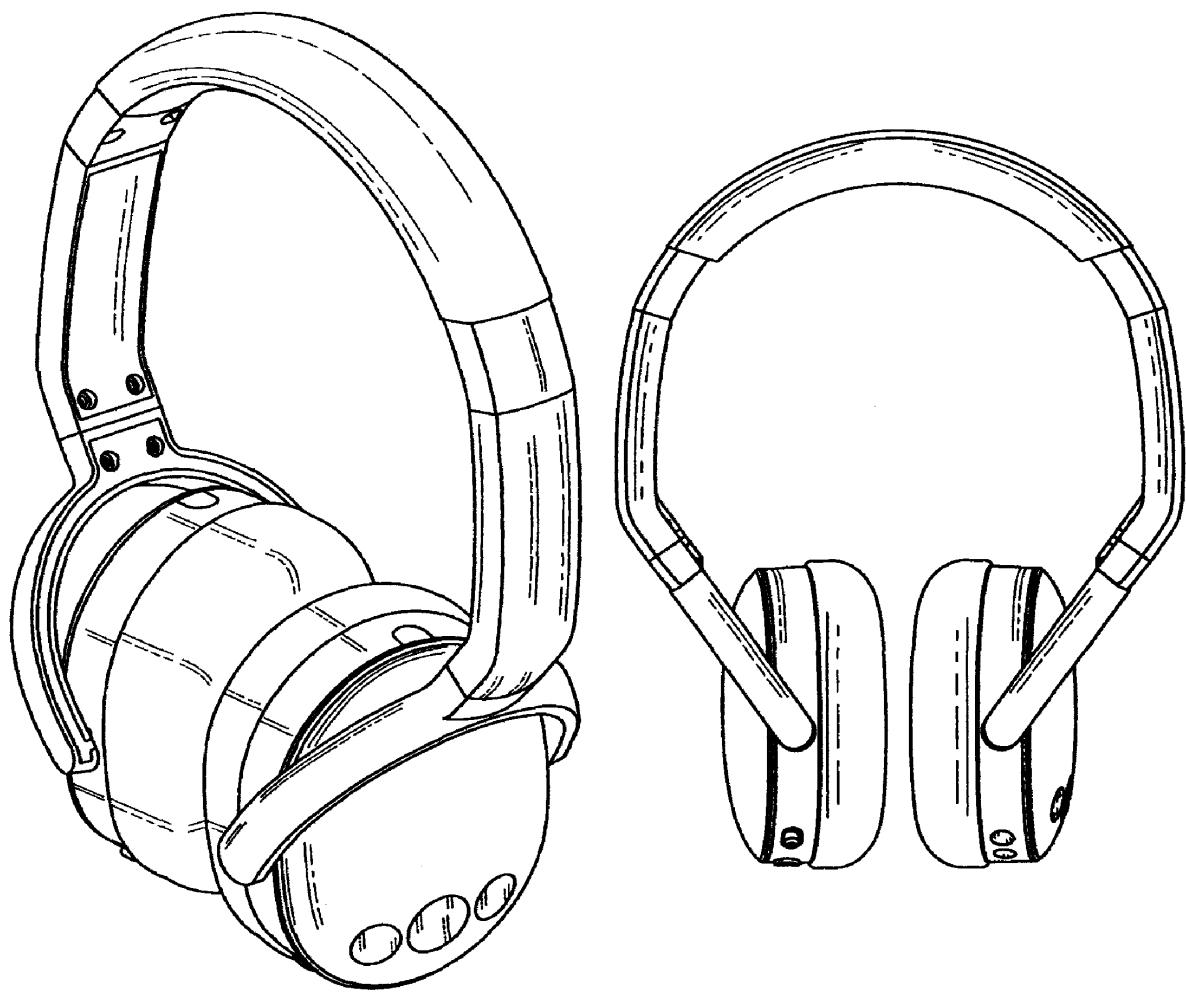


Fig. 25. Headphone (USD616865)

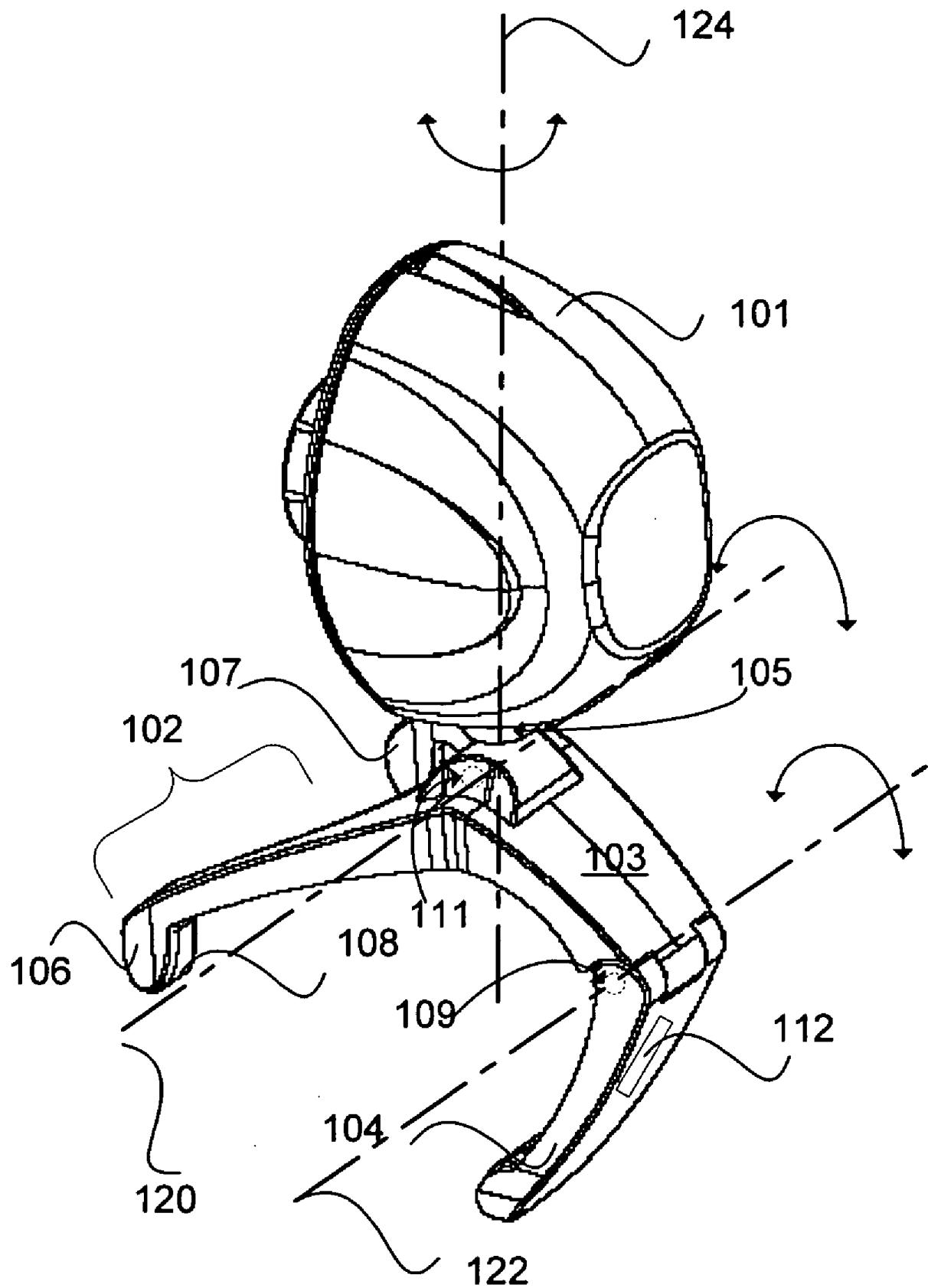


Fig. 26. Three way video camera base (US7048454)

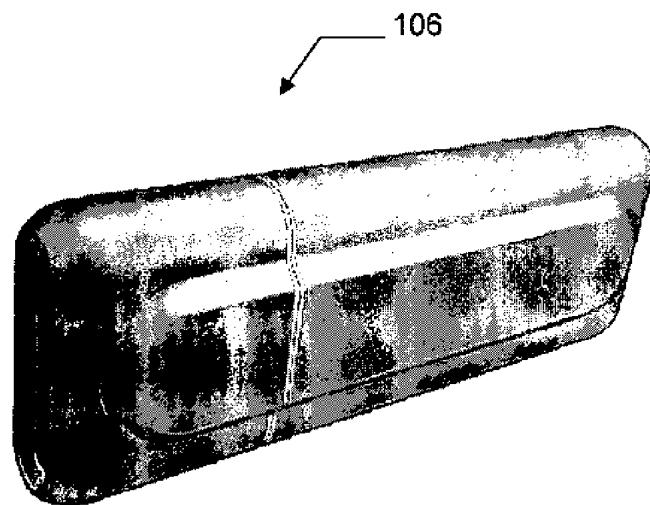


Fig._5A

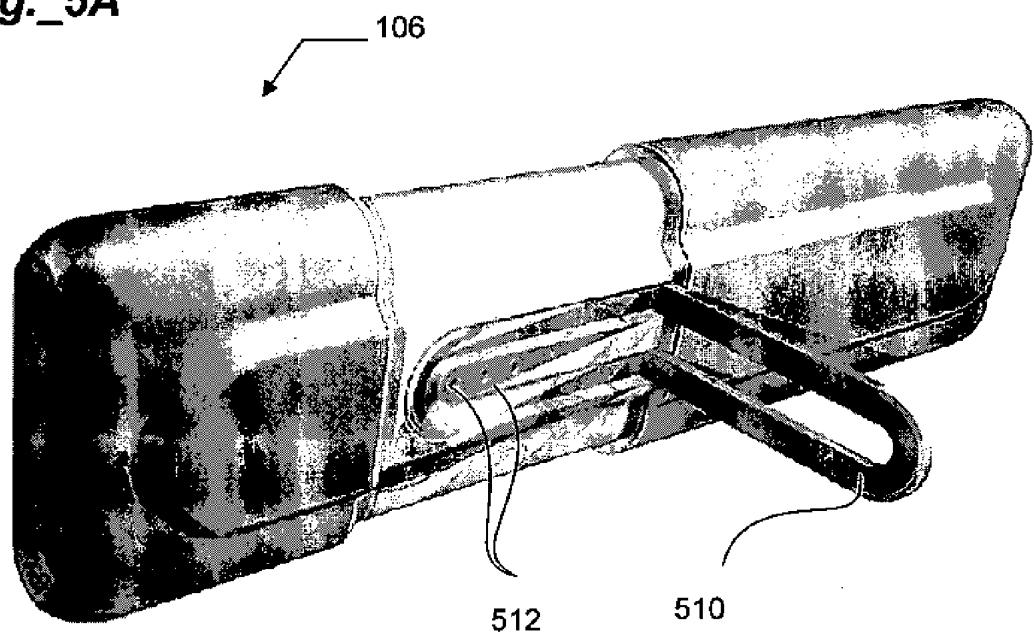


Fig._5B

Fig. 27. Portable powered speaker (US7242785)

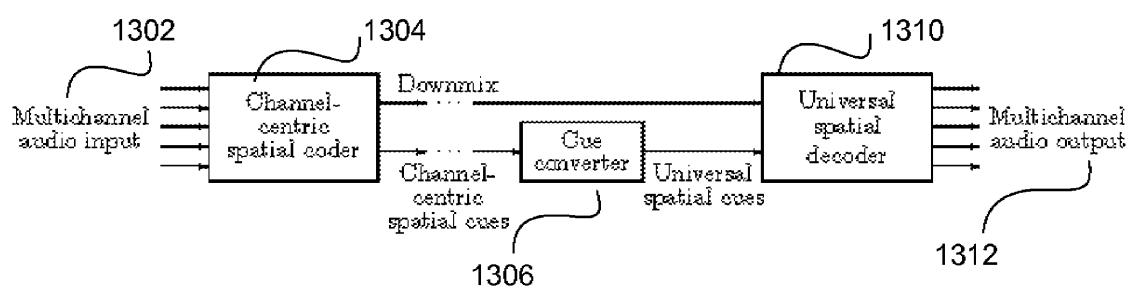


Fig. 28. Spatial audio coding based on universal spatial cues (US8379868)

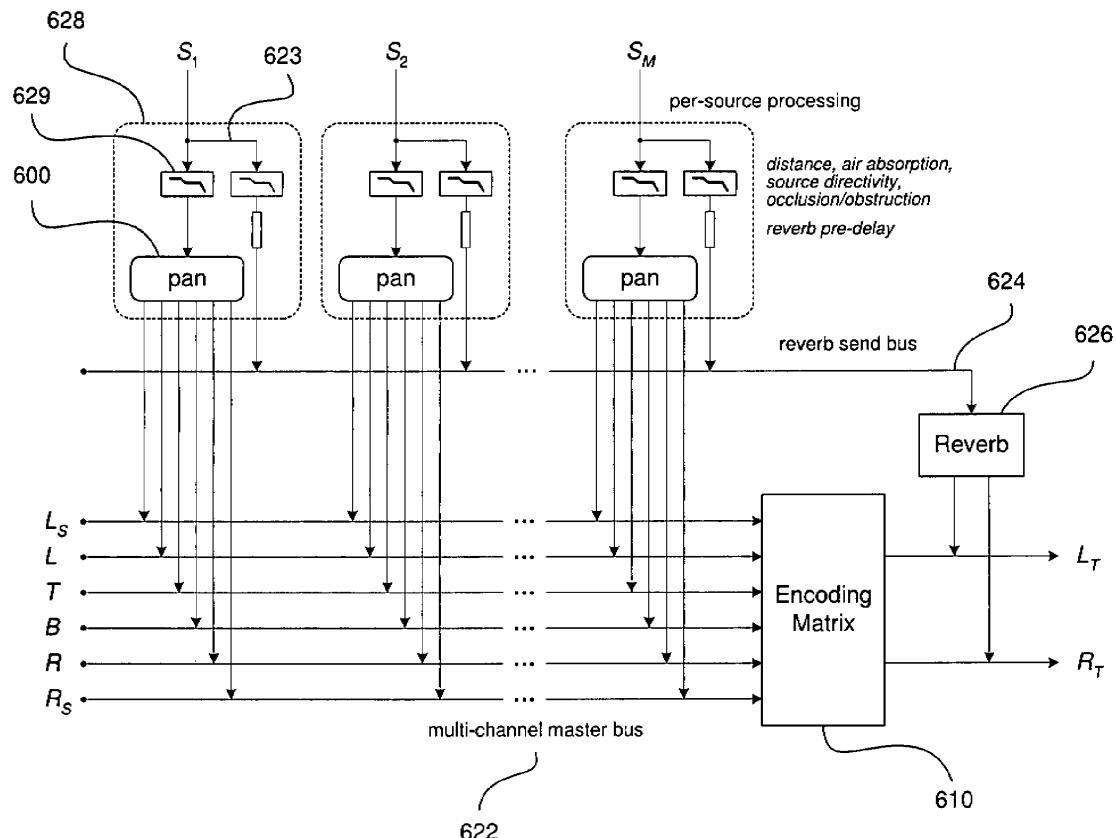


Fig. 29. Phase amplitude 3 D stereo encoder and decoder (US8712061)

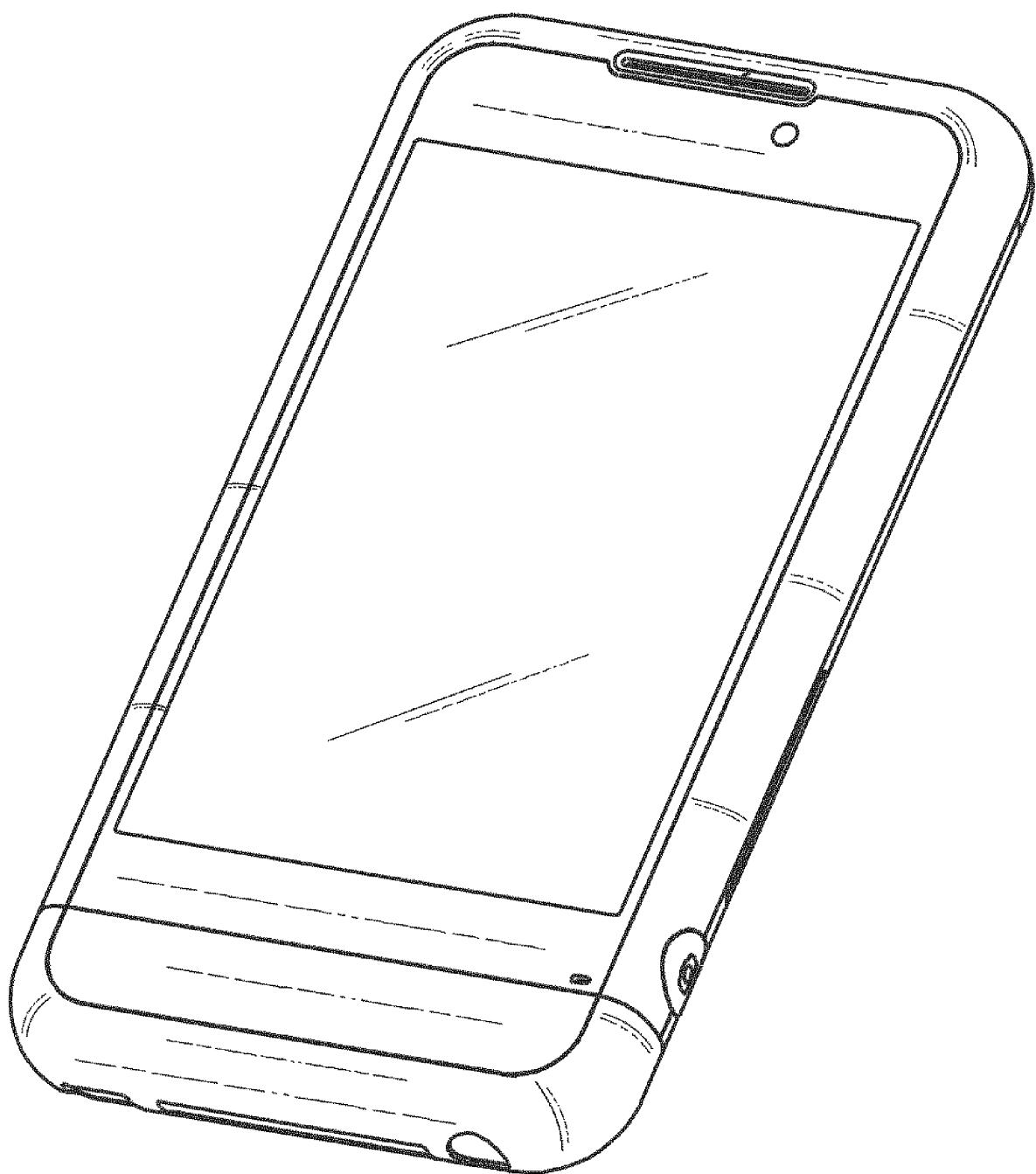


Fig. 30. Entertainment device (USD597067)

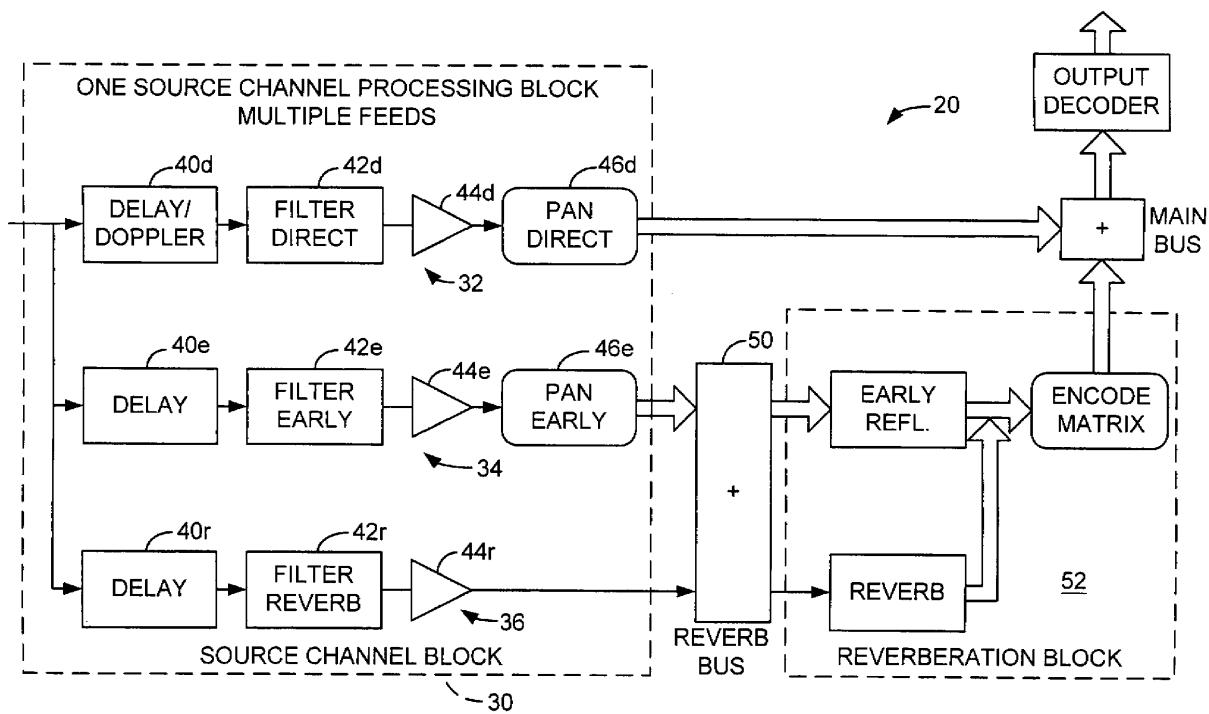


Fig. 31. Environmental reverberation processor (US7561699)

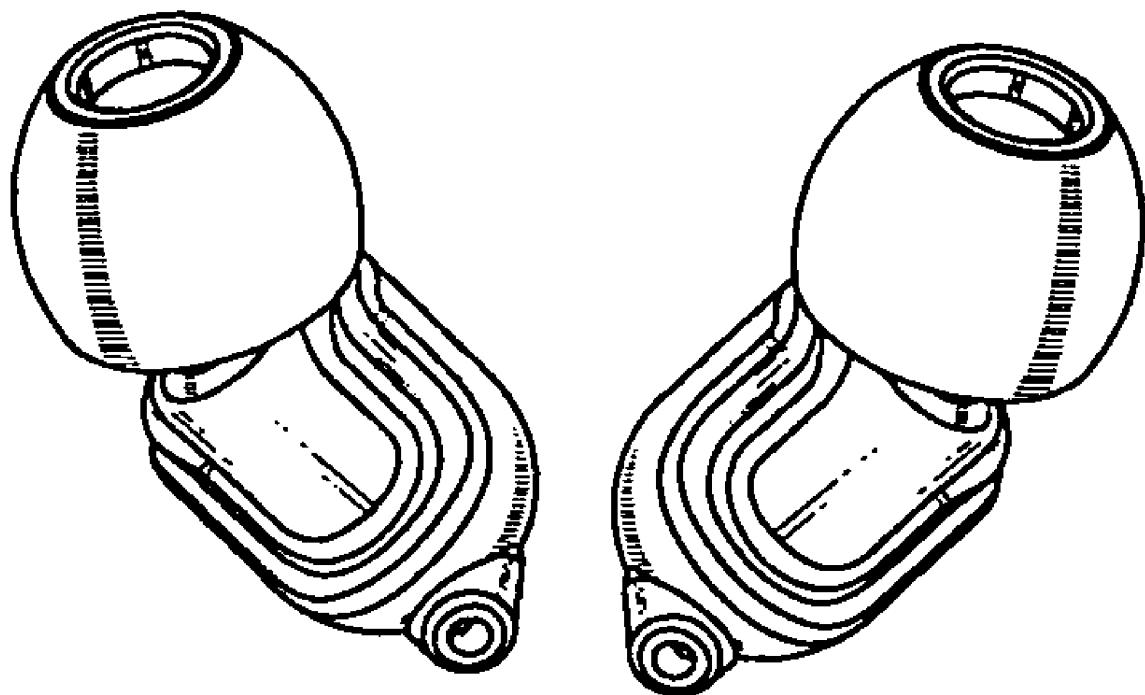


Fig. 32. Earphones (USD550657)

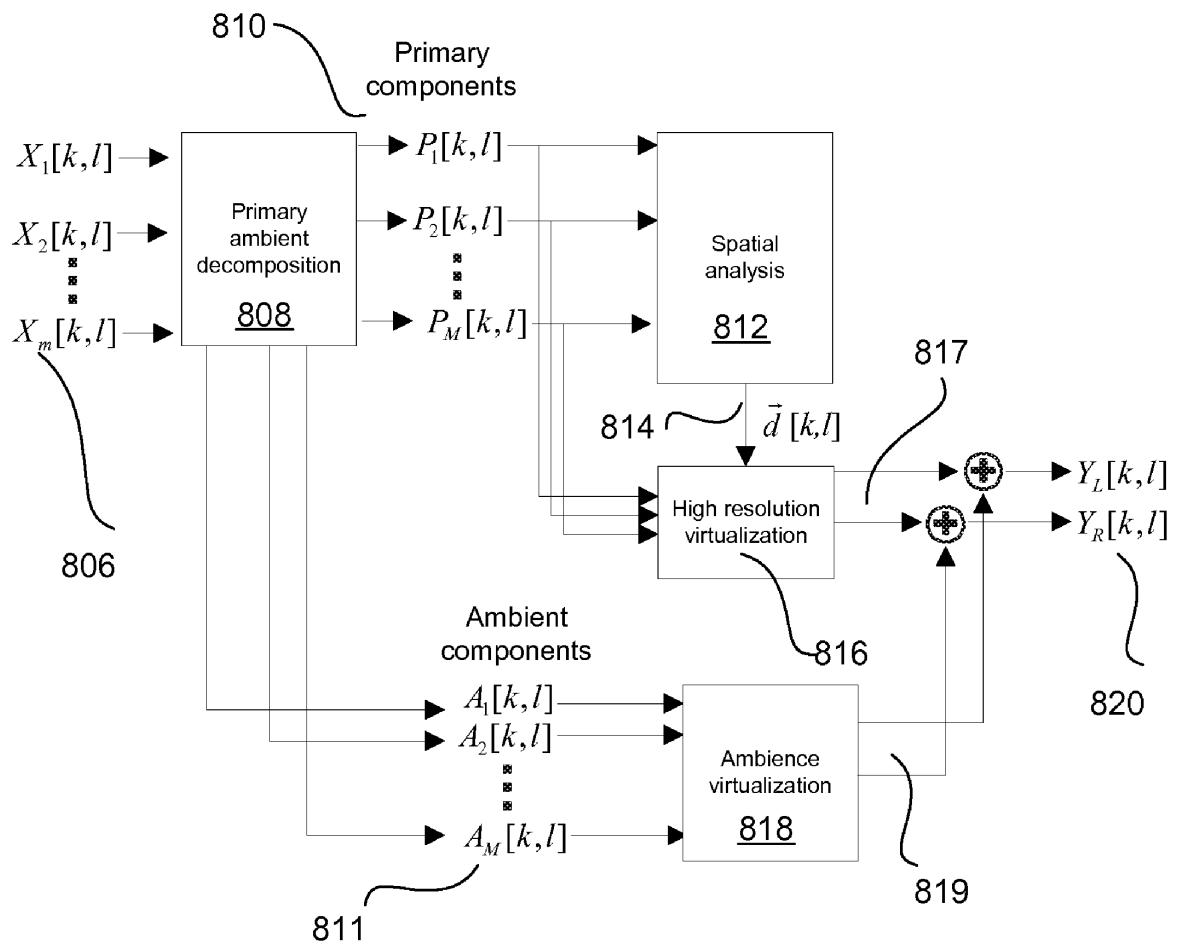


Fig. 33. Spatial audio analysis and synthesis for binaural reproduction and format conversion (US8374365)

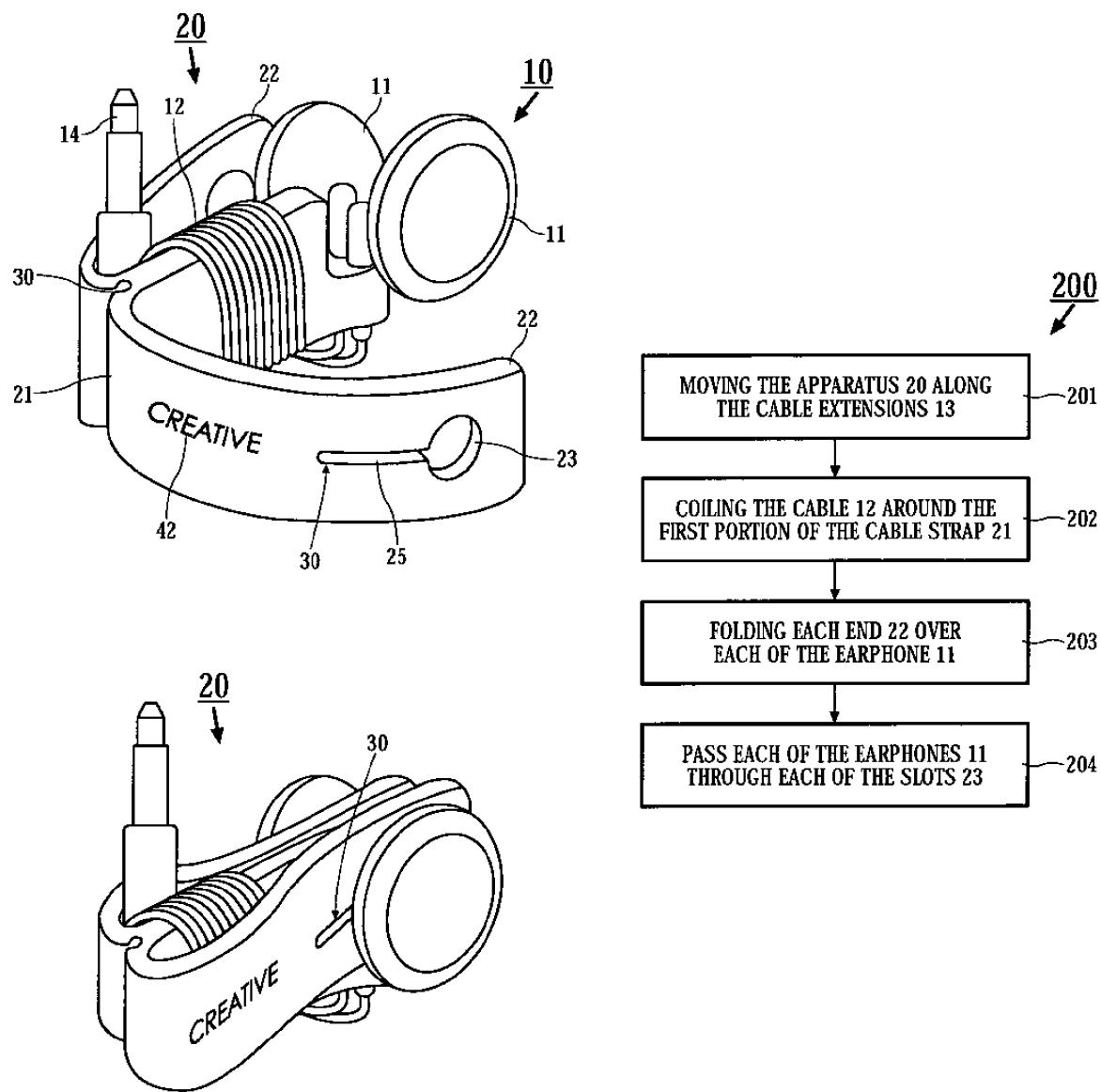


Fig. 34. Cable coiling method and apparatus (US7712696)

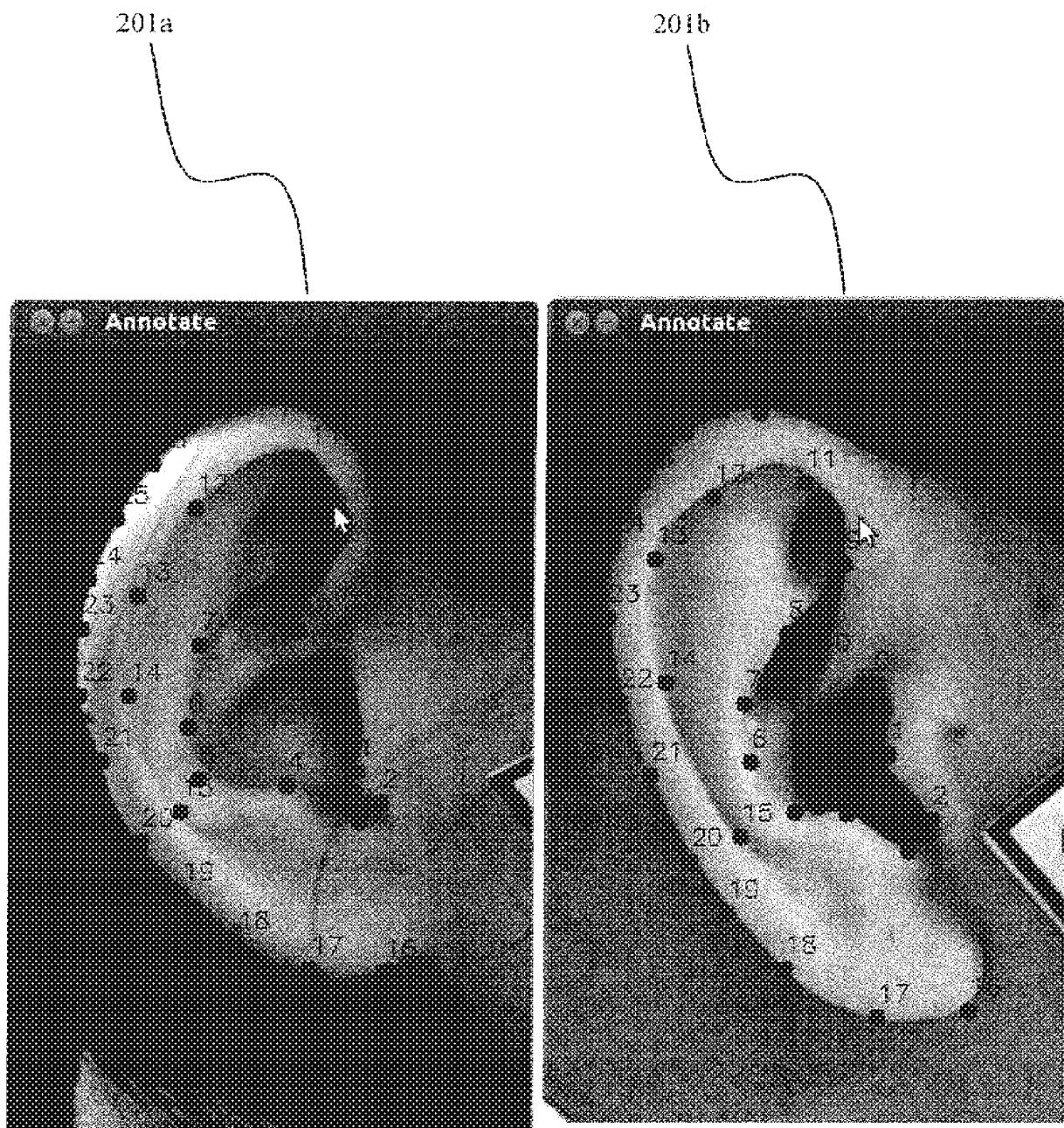


Fig. 35. Method for generating a customized/personalized head related transfer function (US10805757)

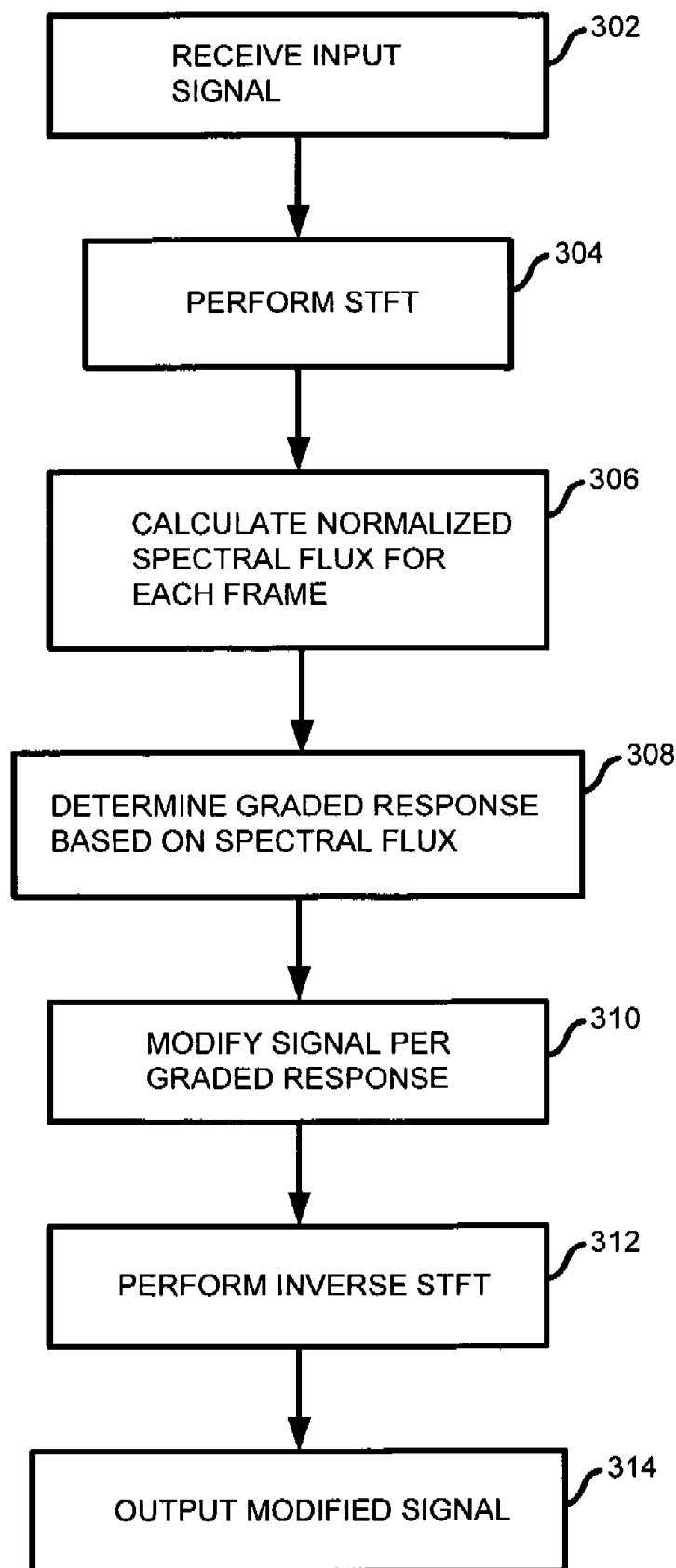


Fig. 36. Transient detection and modification in audio signals (US8321206)

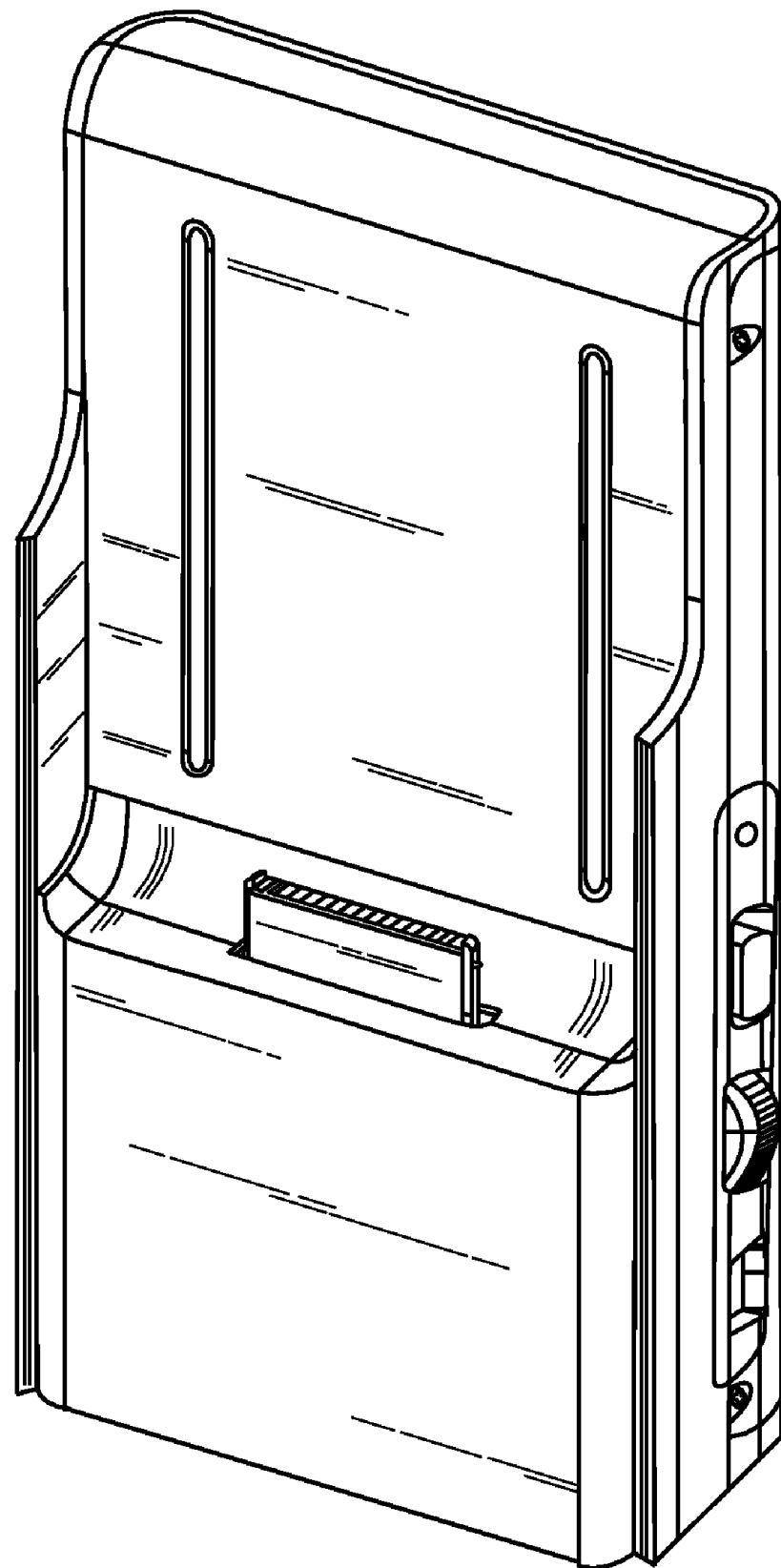


Fig. 37. Docking loudspeaker for media player (USD584732)

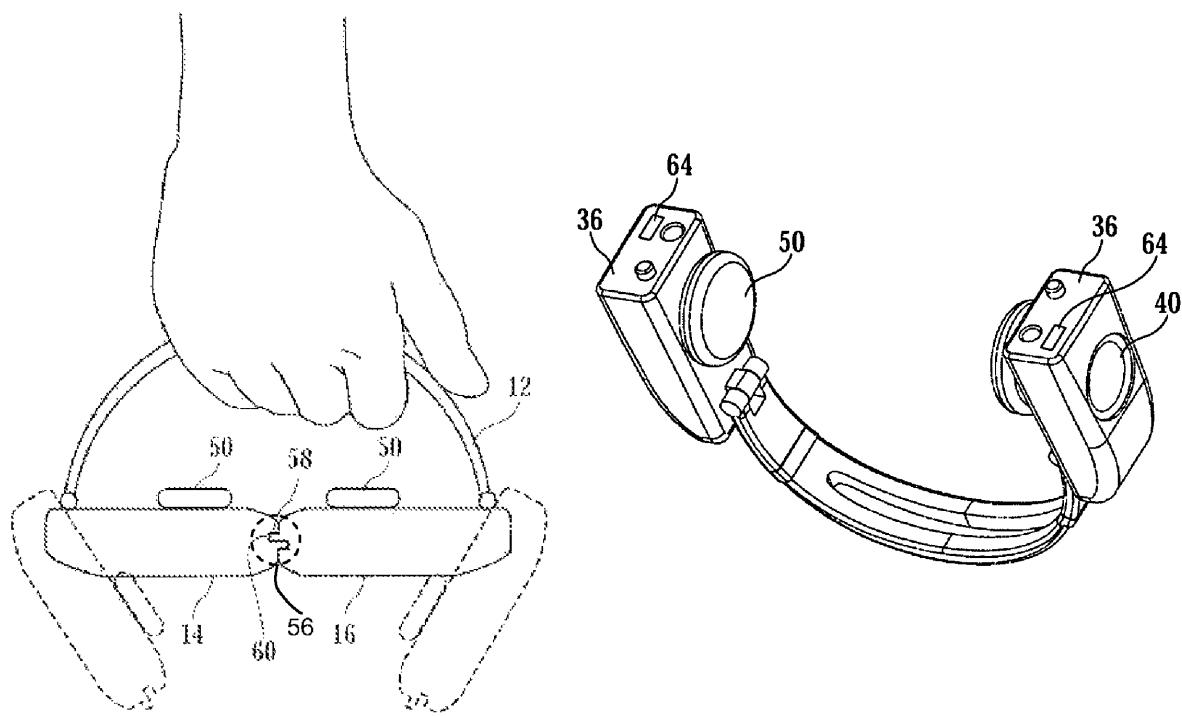


Fig. 38. Multimode audio reproduction device (US8472659)

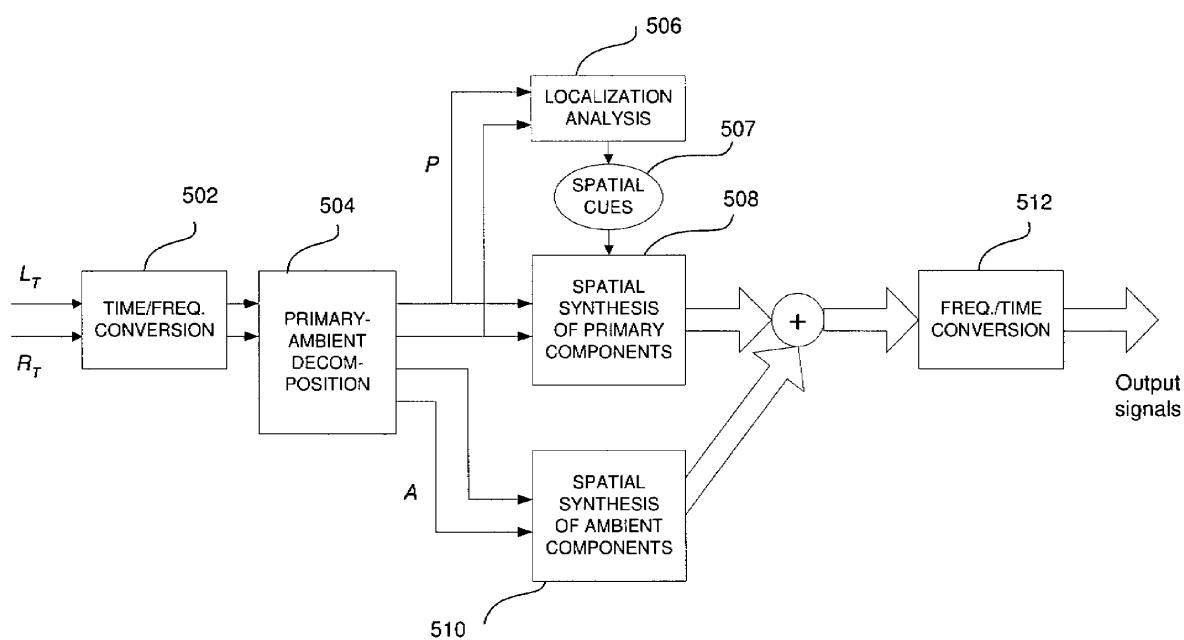


Fig. 39. Phase amplitude matrixed surround decoder (US8345899)

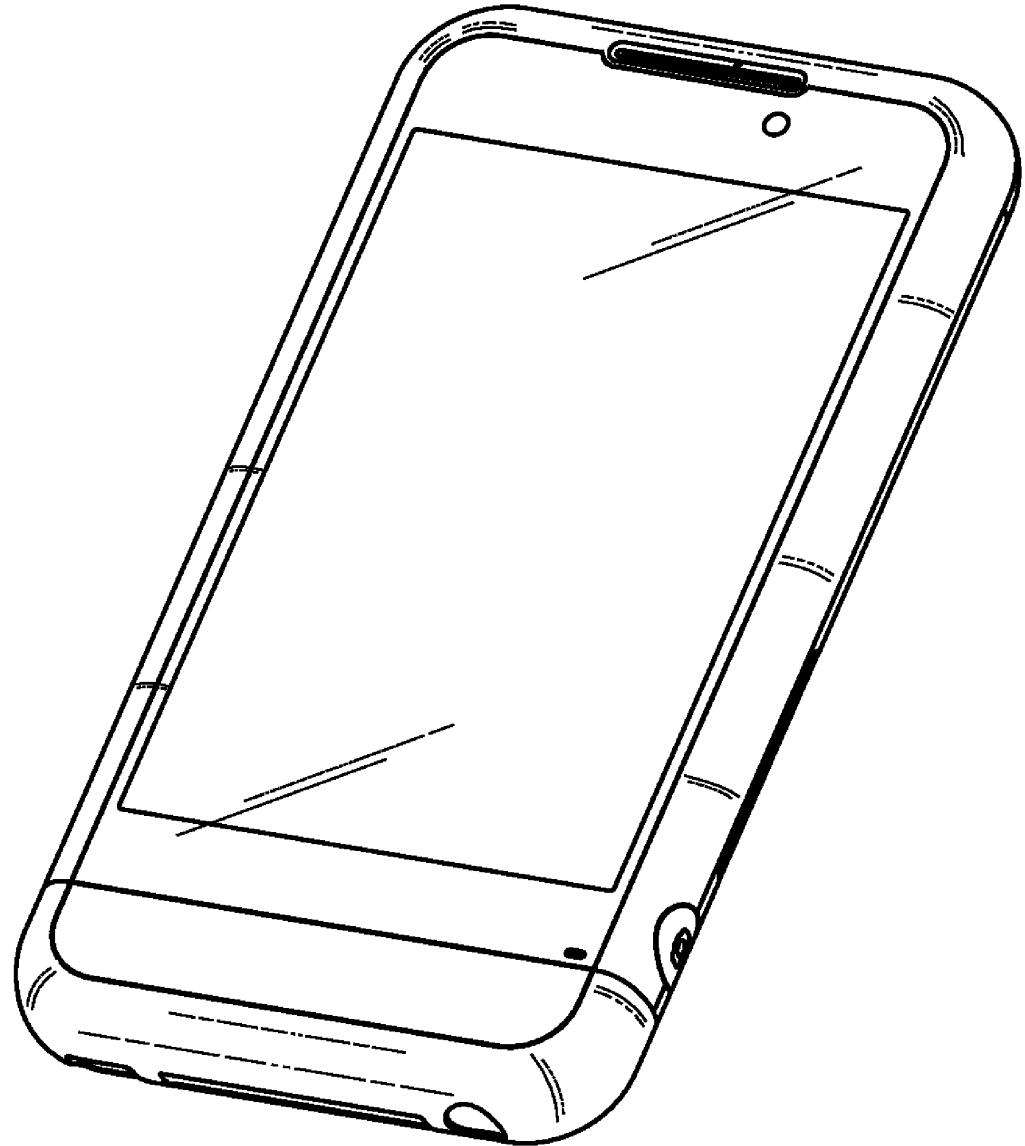


Fig. 40. Entertainment device (USD604716)

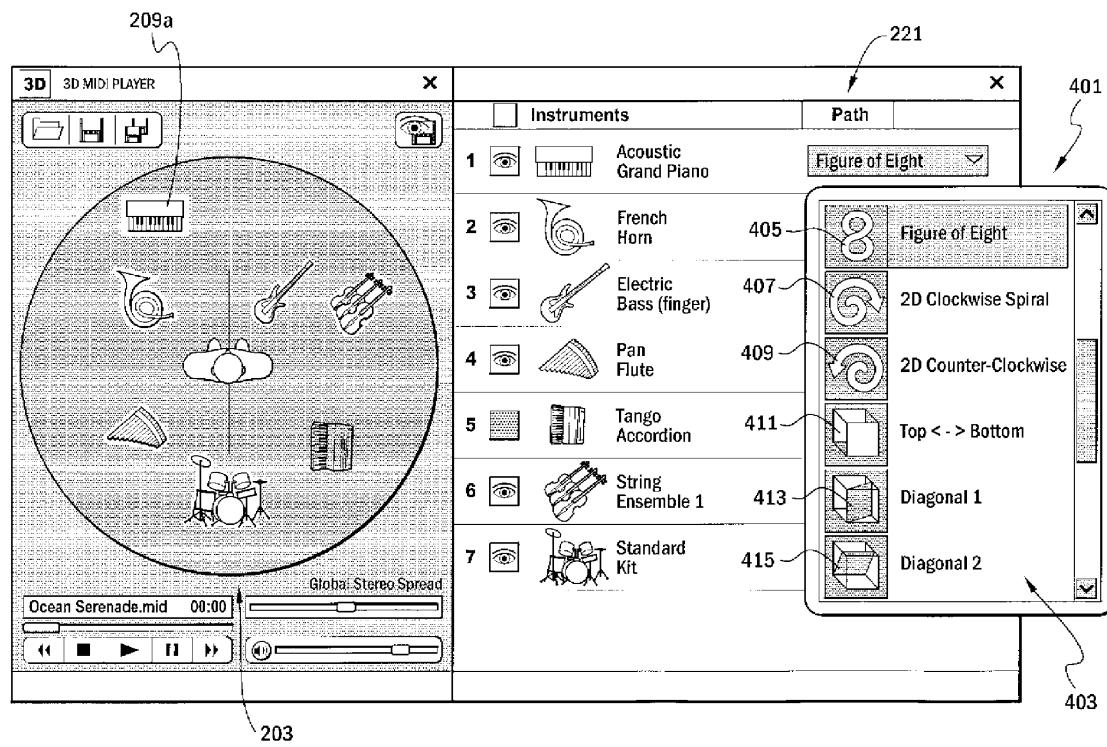


Fig. 41. Method and apparatus for enabling a user to amend an audio file (US7774707)

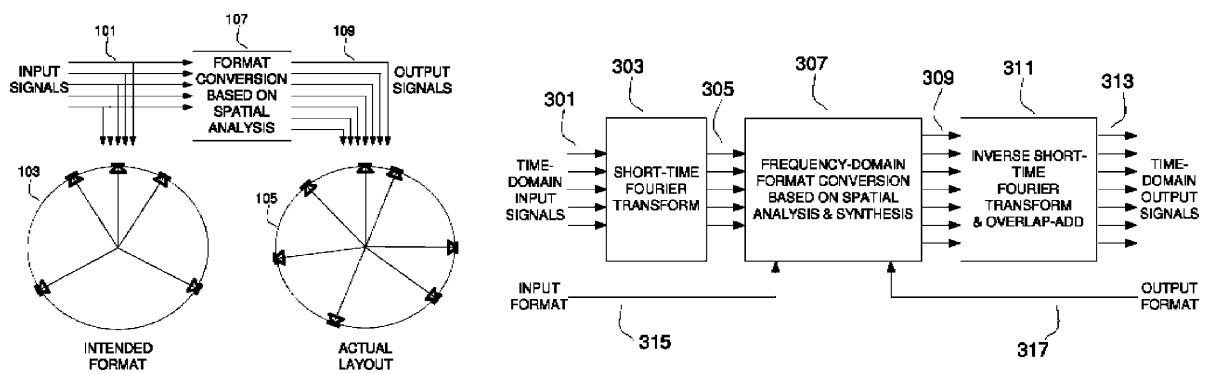


Fig. 42. Multichannel surround format conversion and generalized upmix (US9014377)

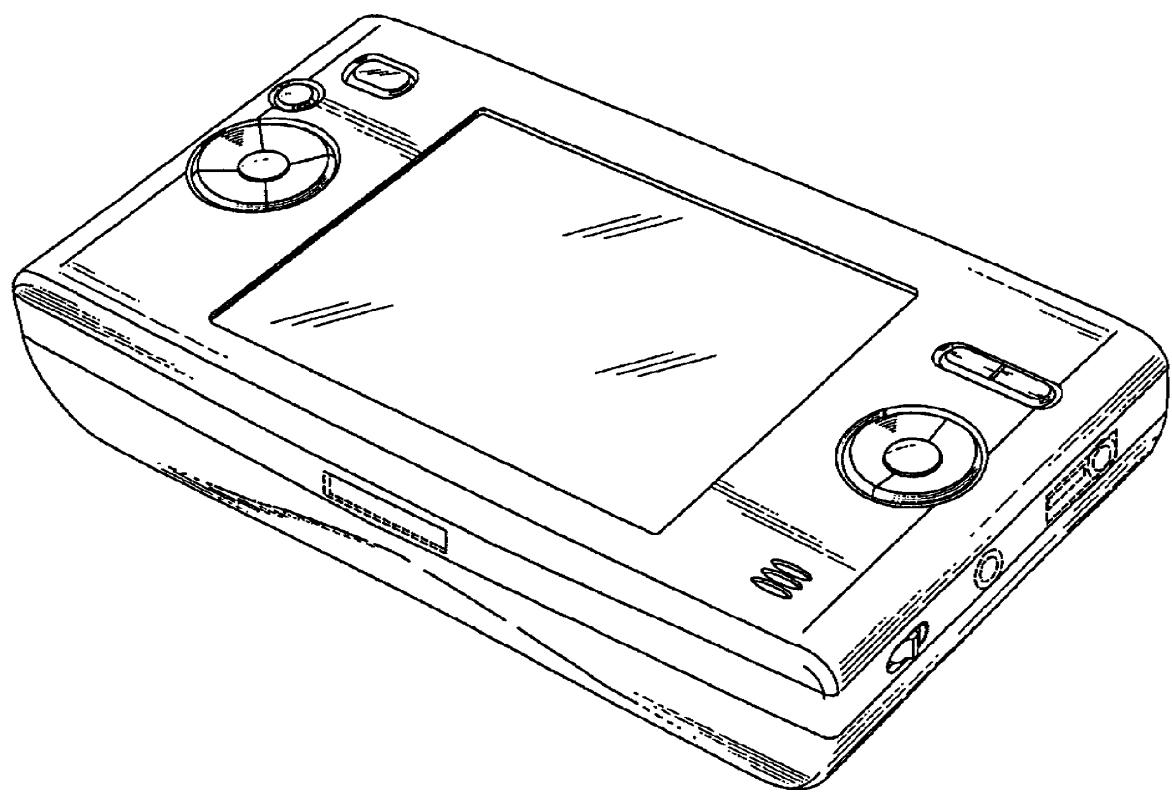


Fig. 43. Portable media player (USD499423)

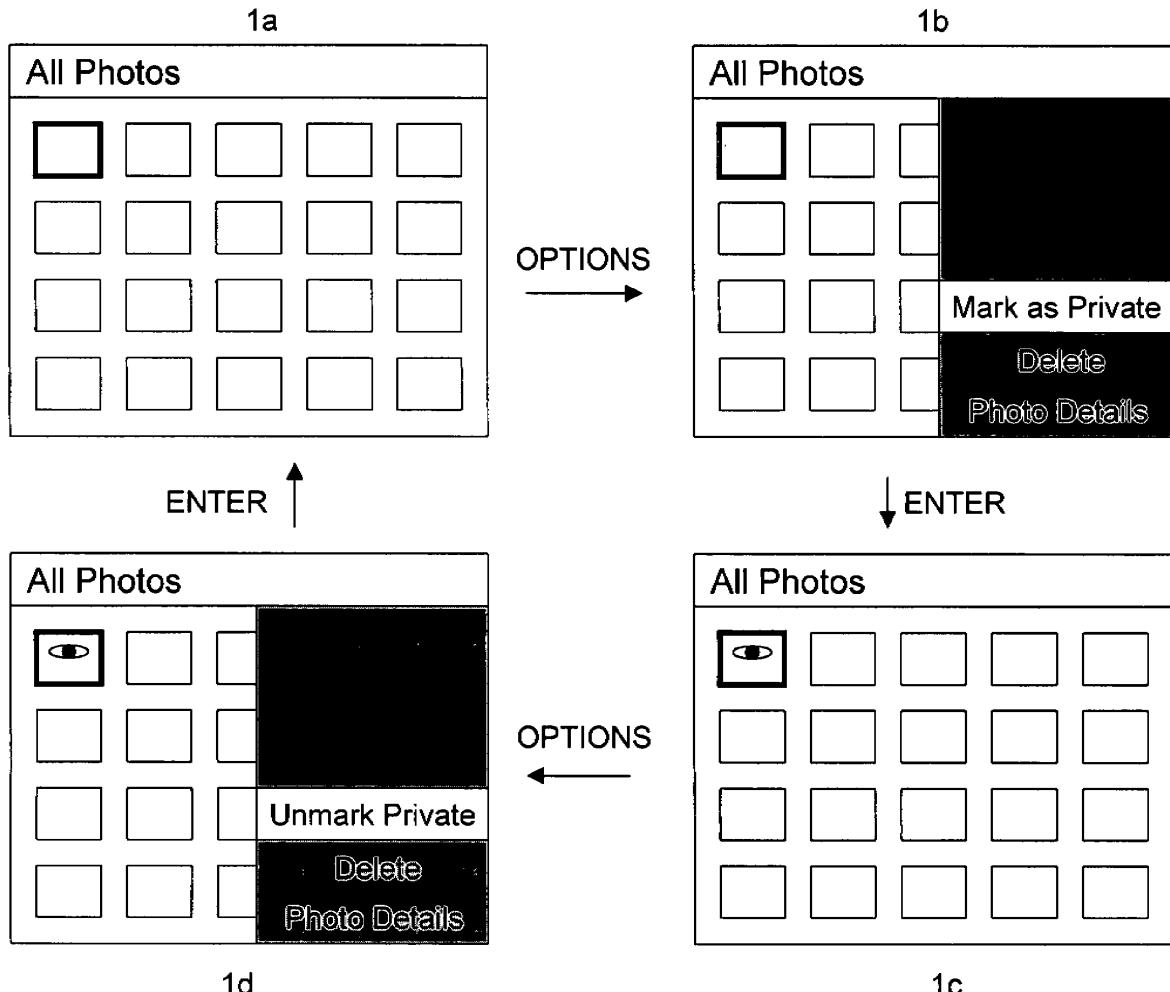


Fig. 44. Method and apparatus for protecting private information on a user apparatus (US8359659)

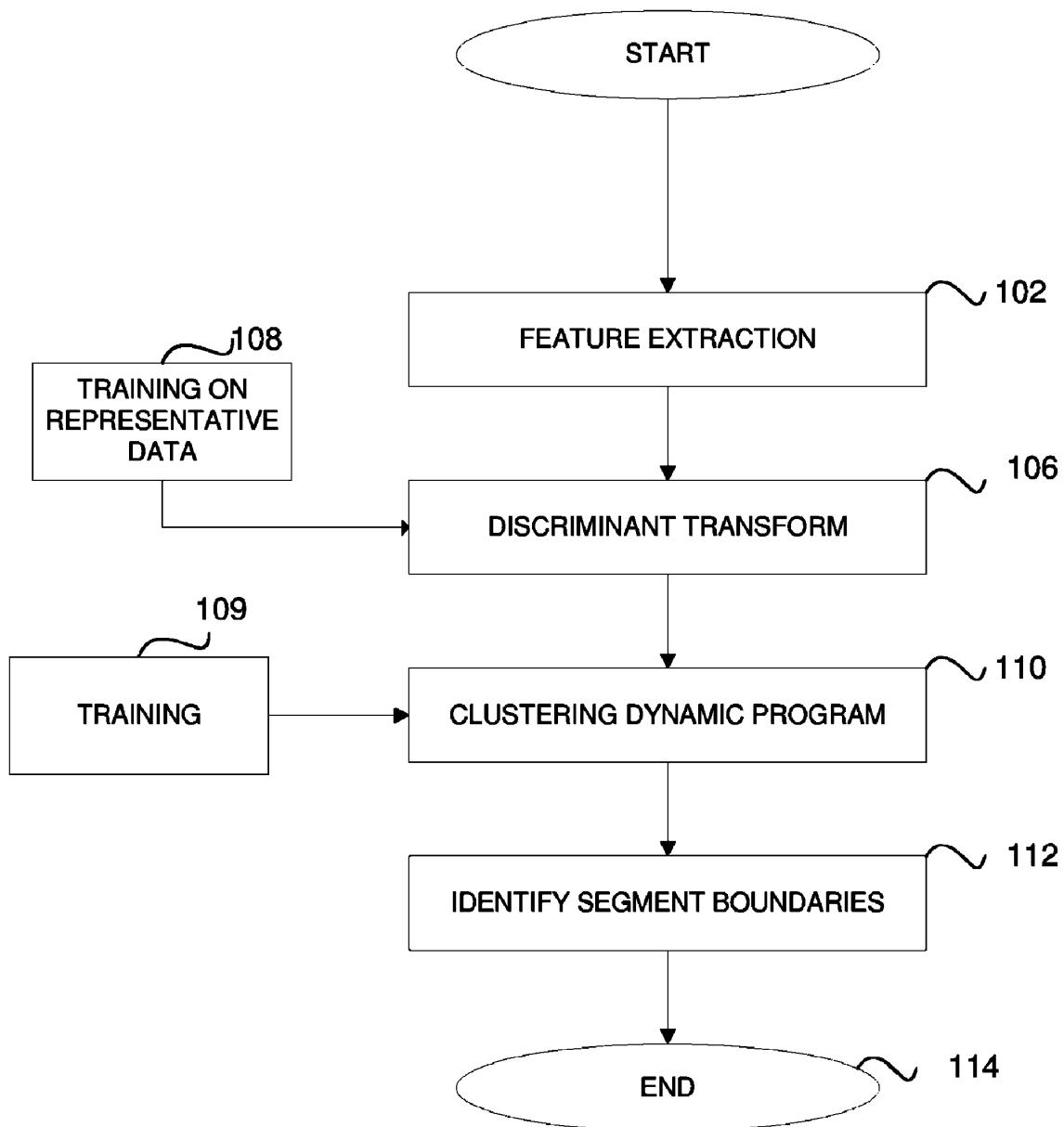


Fig. 45. Method for segmenting audio signals (US8521529)

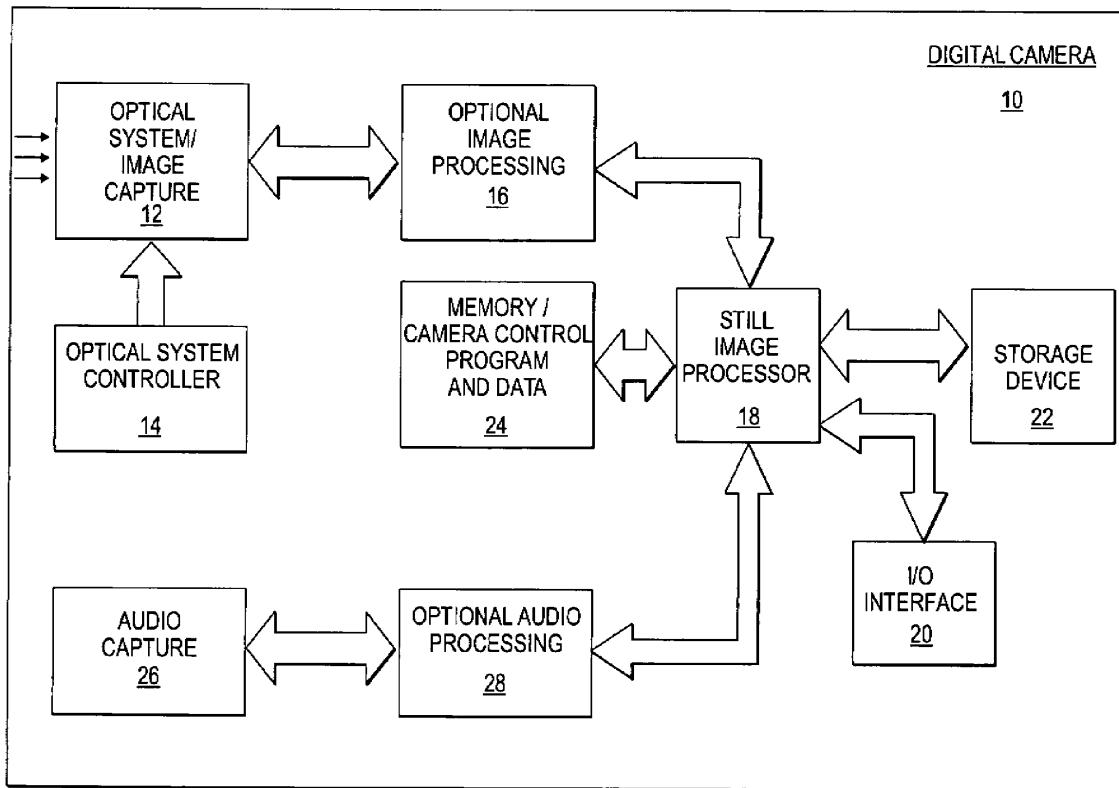


Fig. 46. Method and system to process a digital image (US8442262)

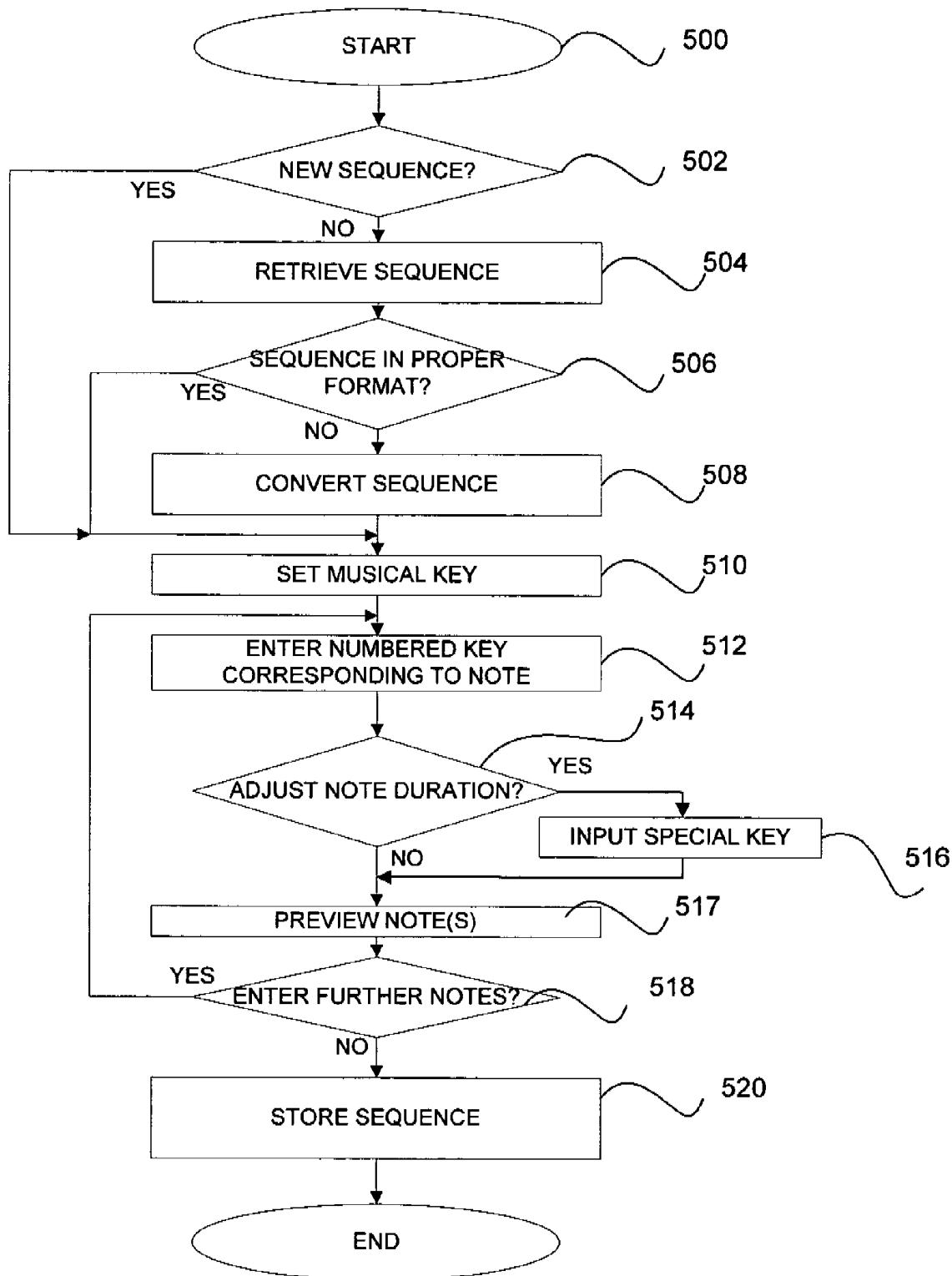


Fig. 47. Method of composing music on a handheld device (US7893338)

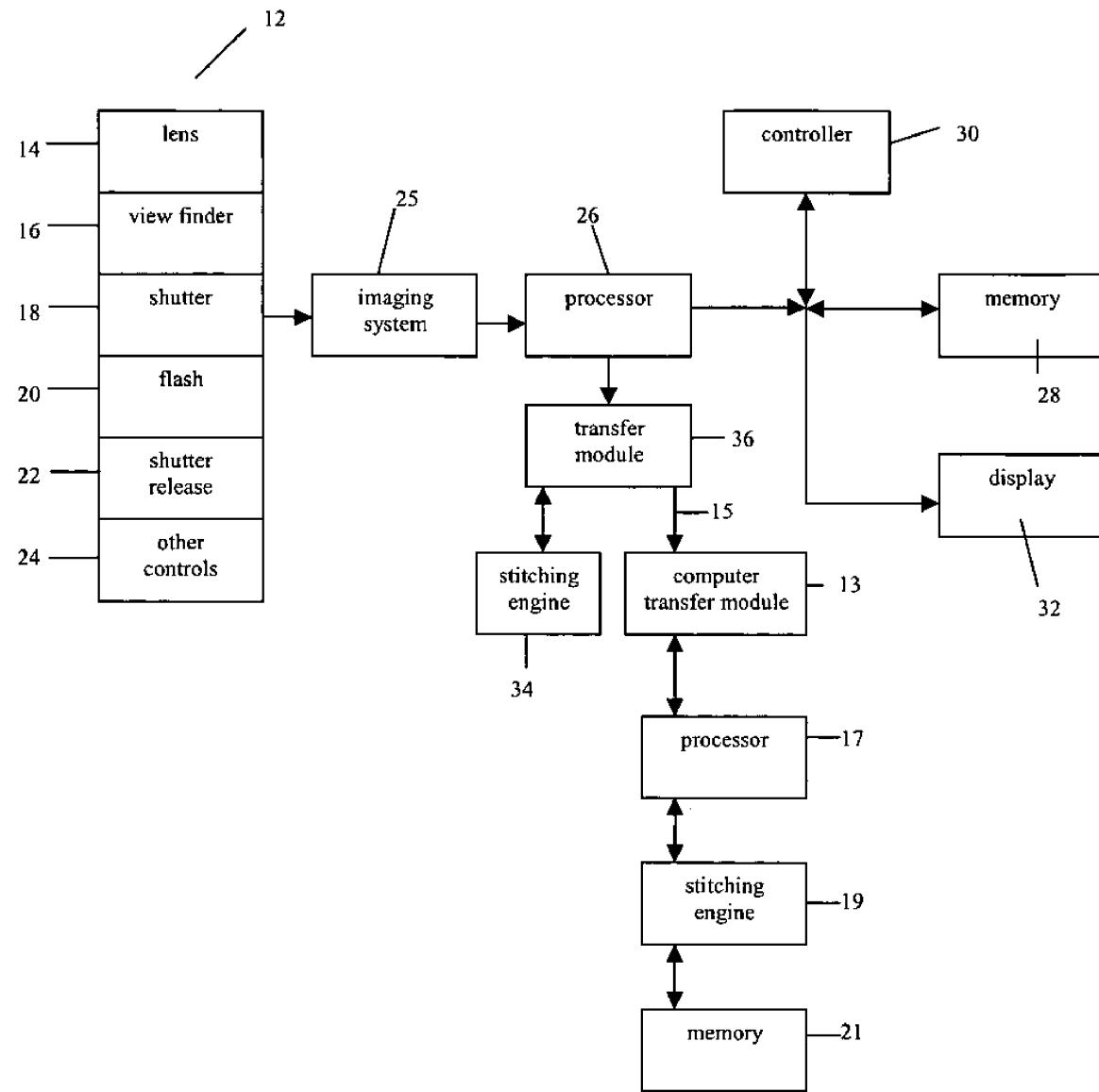


Fig. 48. Digital still camera and method of forming a panoramic image (US7436438)

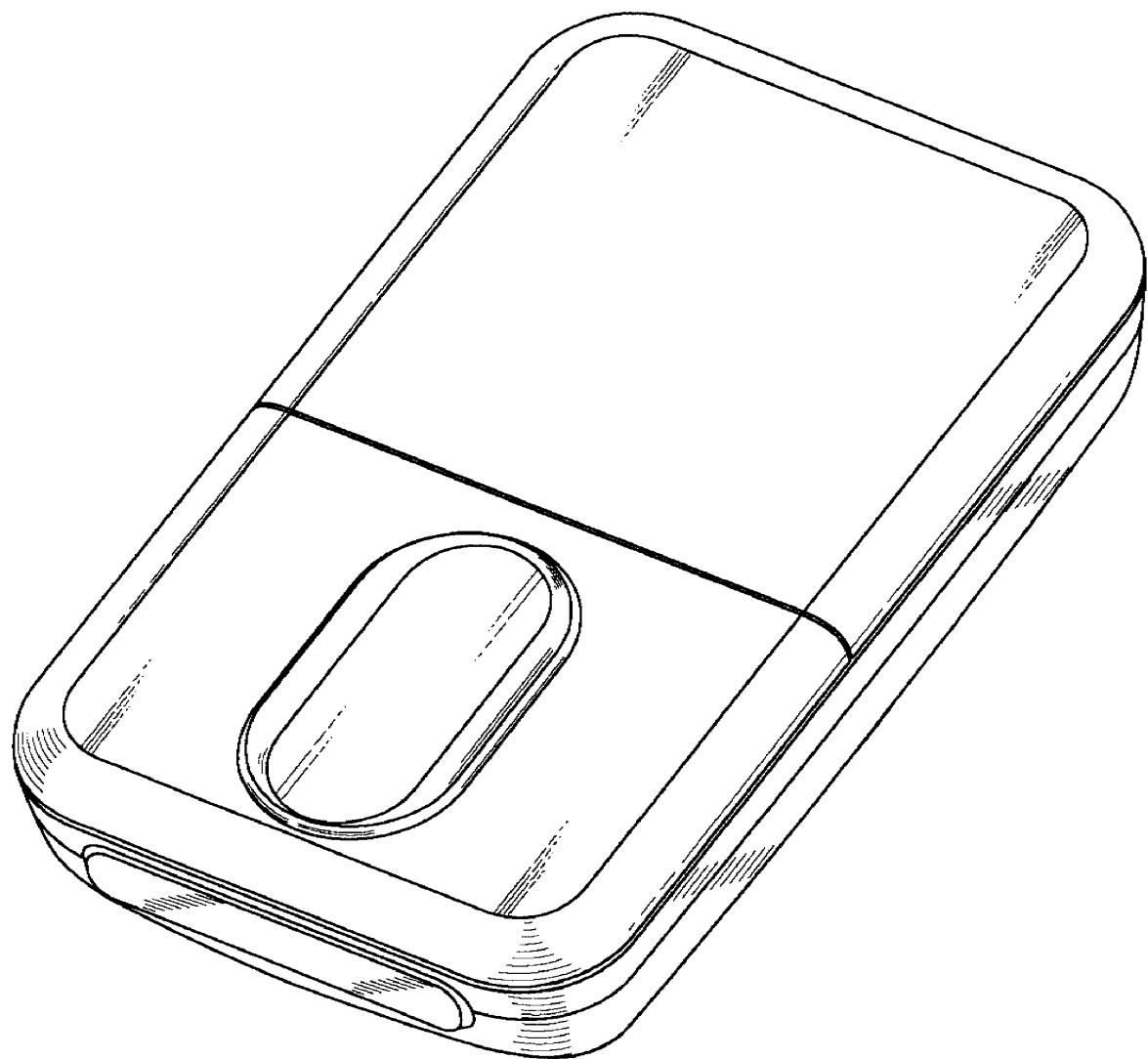


Fig. 49. Media player (USD528561)

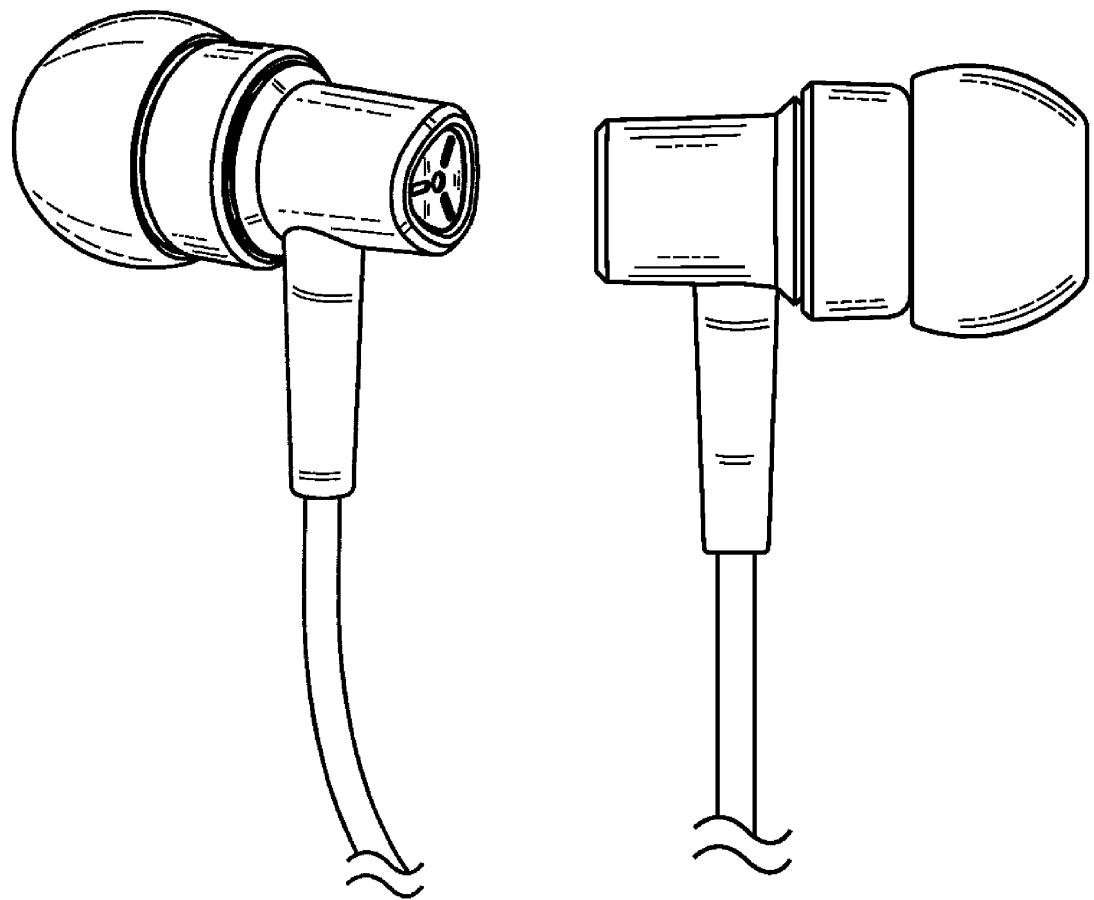


Fig. 50. Earphone (USD628564)

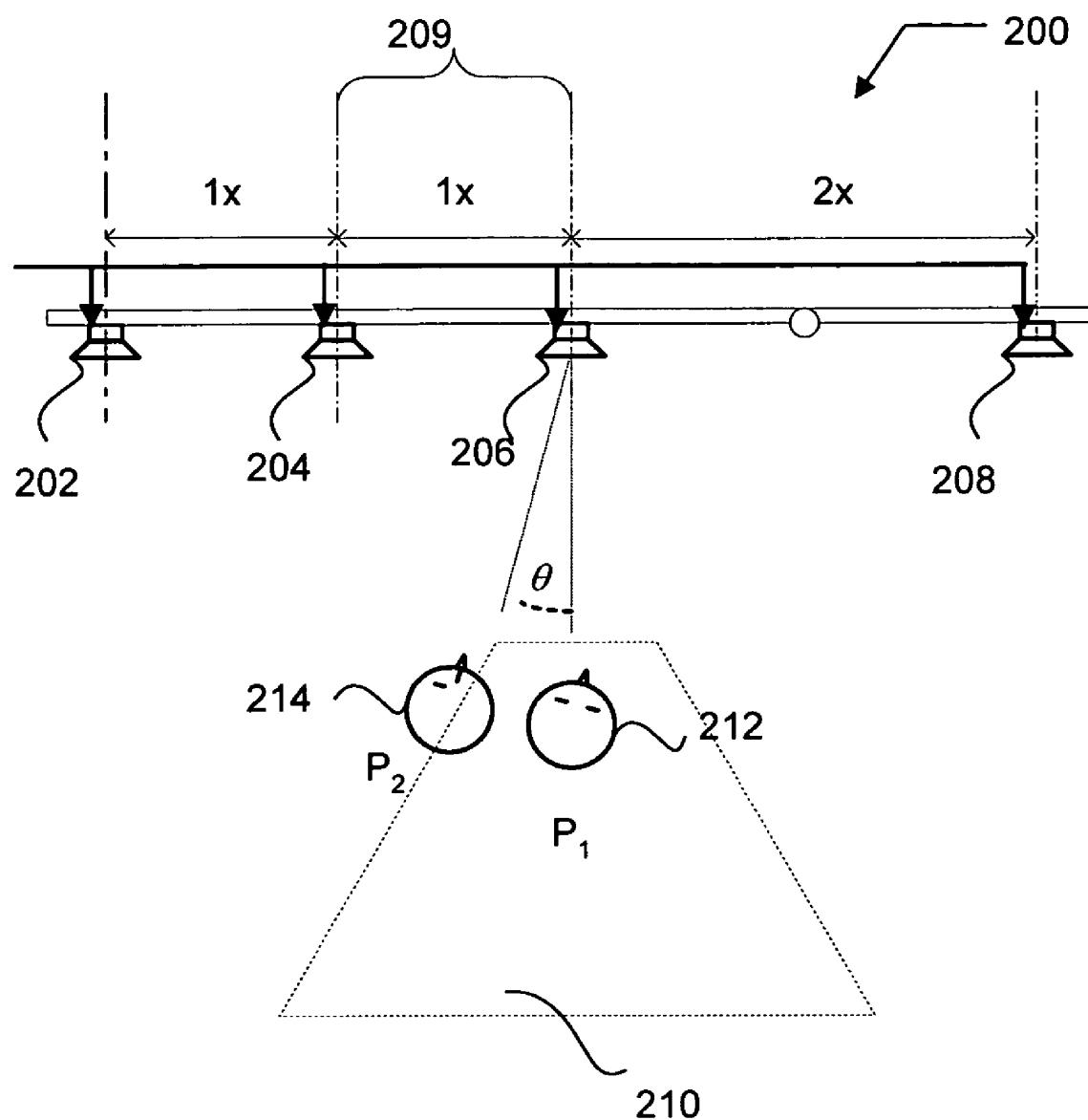


Fig. 51. Transducer array with nonuniform asymmetric spacing and method for configuring array (US8184835)

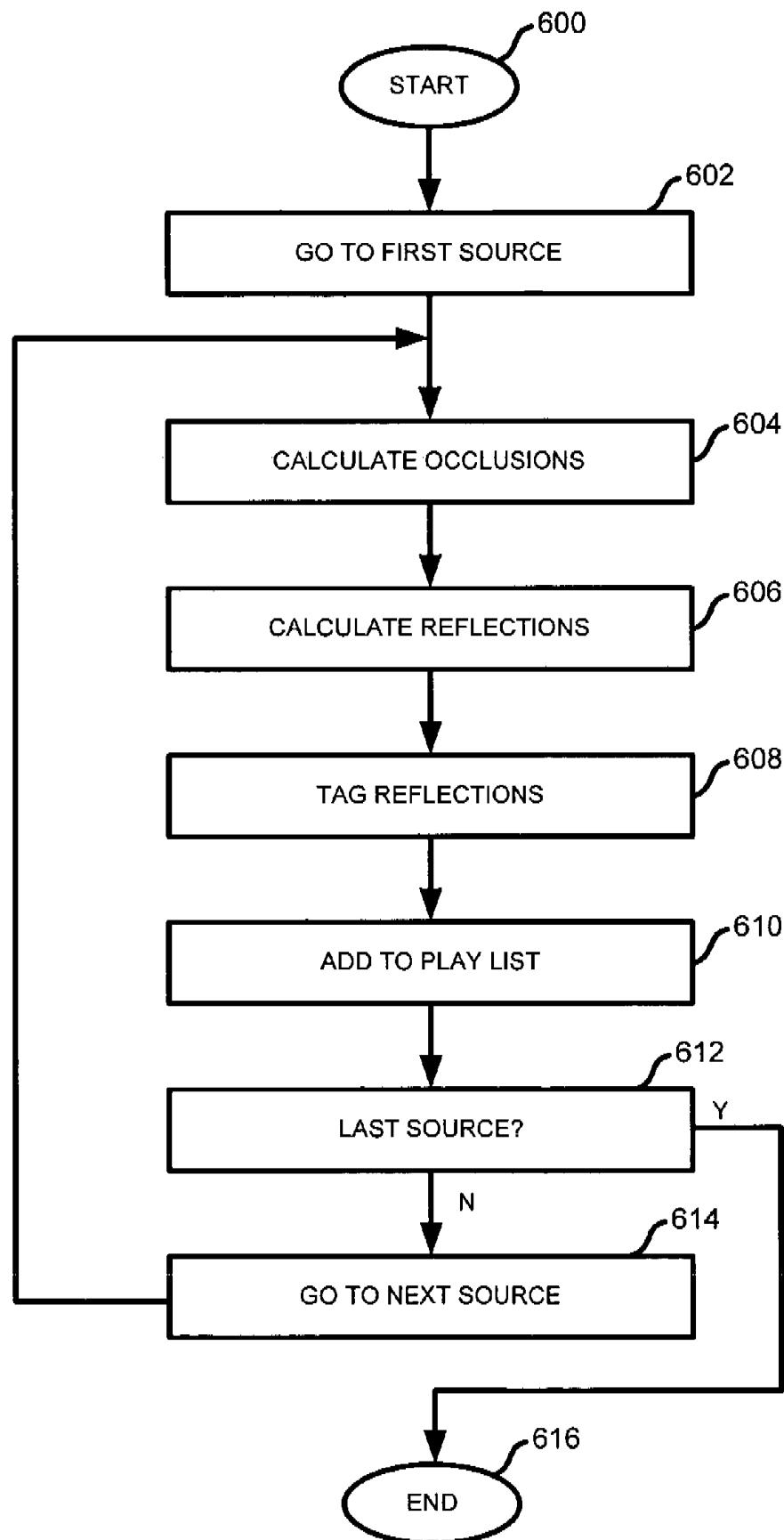


Fig. 52. Dynamic acoustic rendering (US7248701)

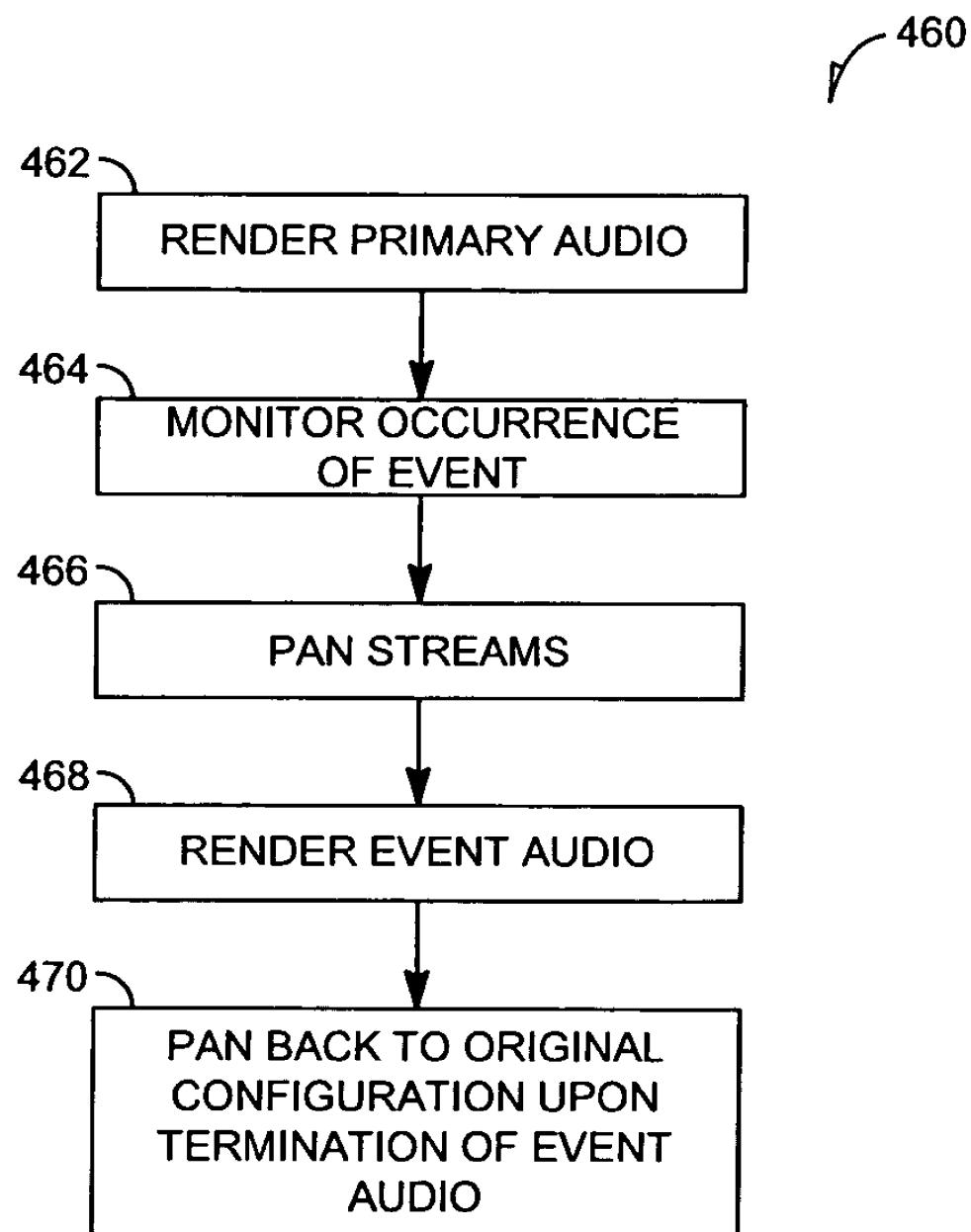


Fig. 53. Method and apparatus for spatial reformatting of multi channel audio content (US7555354)

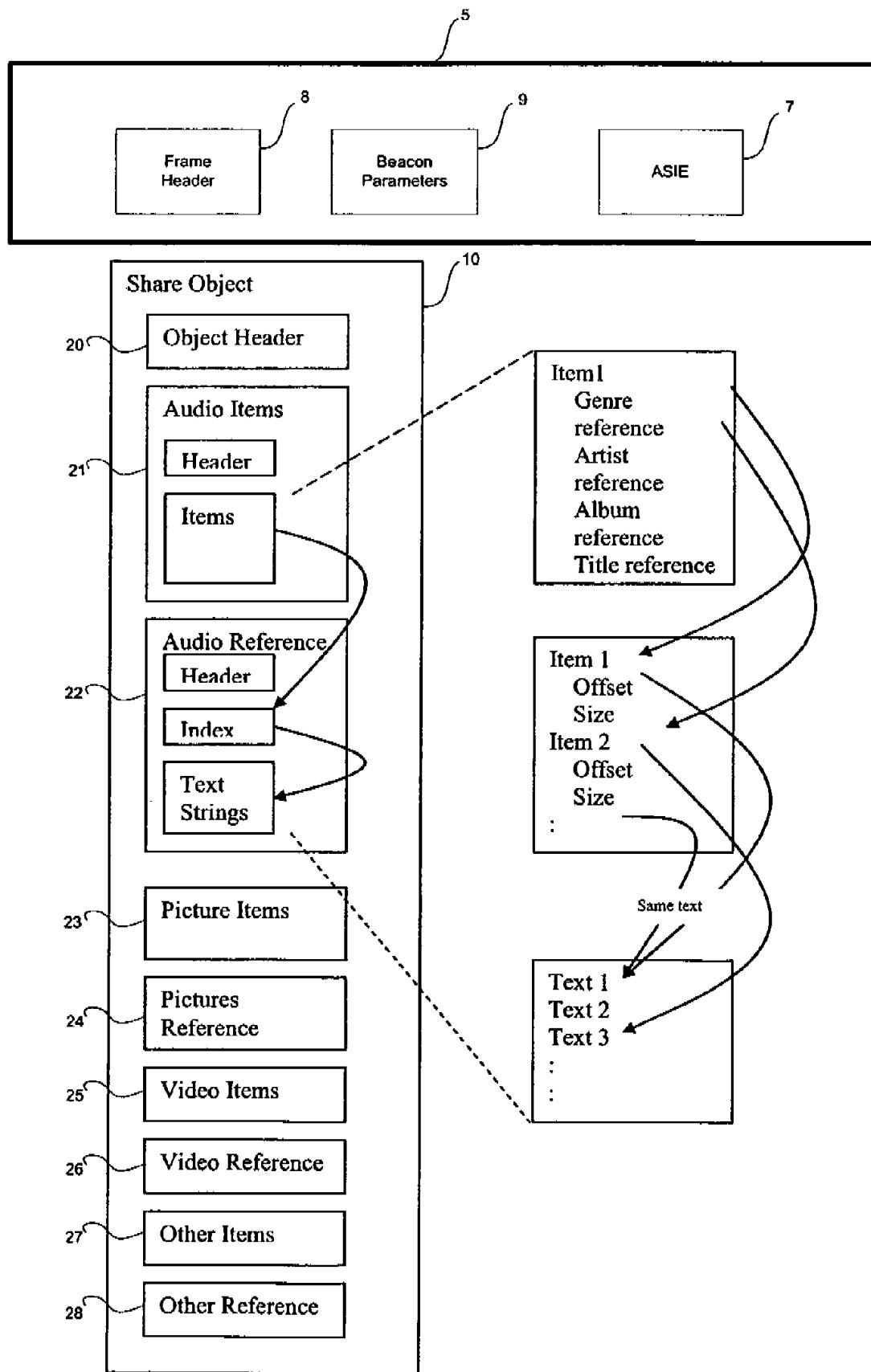


Fig. 54. Beacon frame (US7751355)

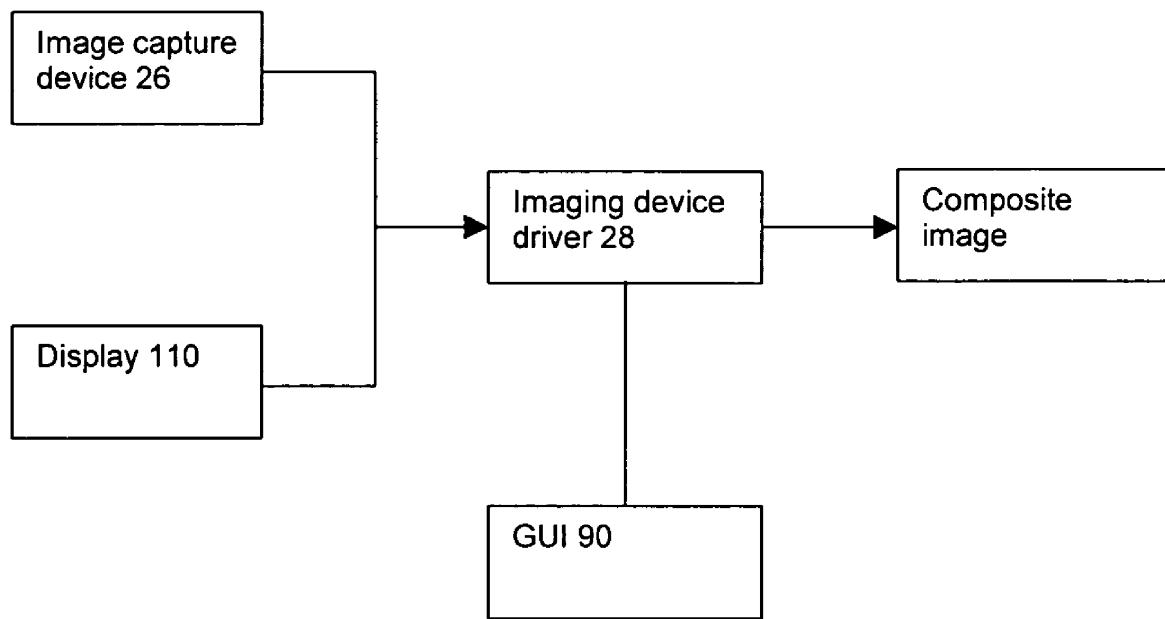


Fig. 55. Method and system for processing a video instant message (US8059170)

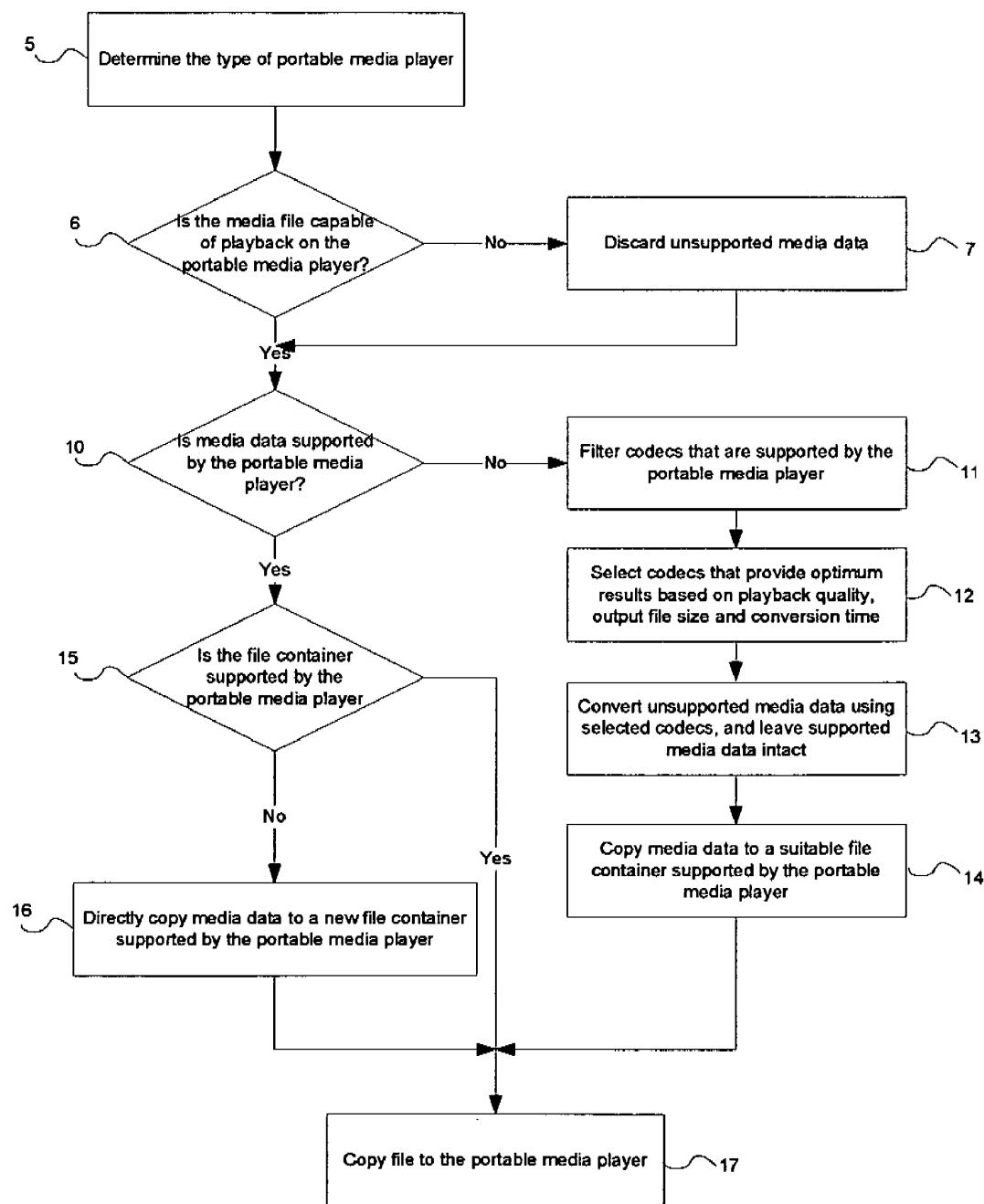


Fig. 56. Method and system for media file conversion (US8019200)

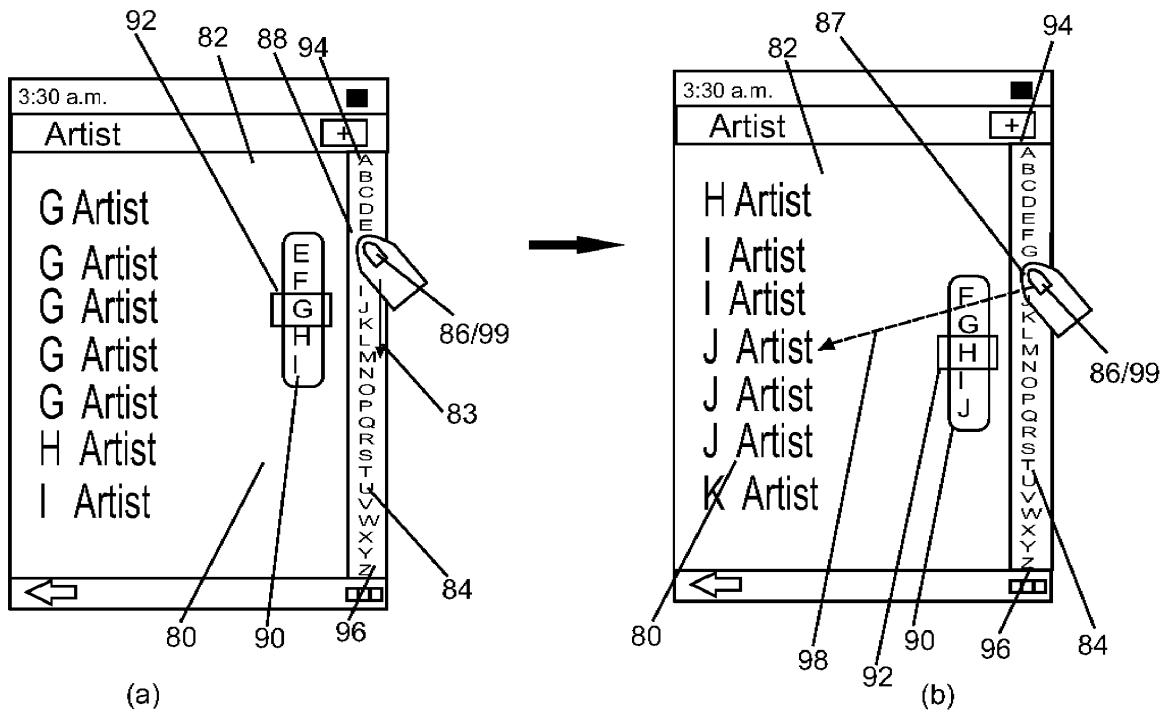


Fig. 57. Methods for searching digital files on a user interface (US9658760)

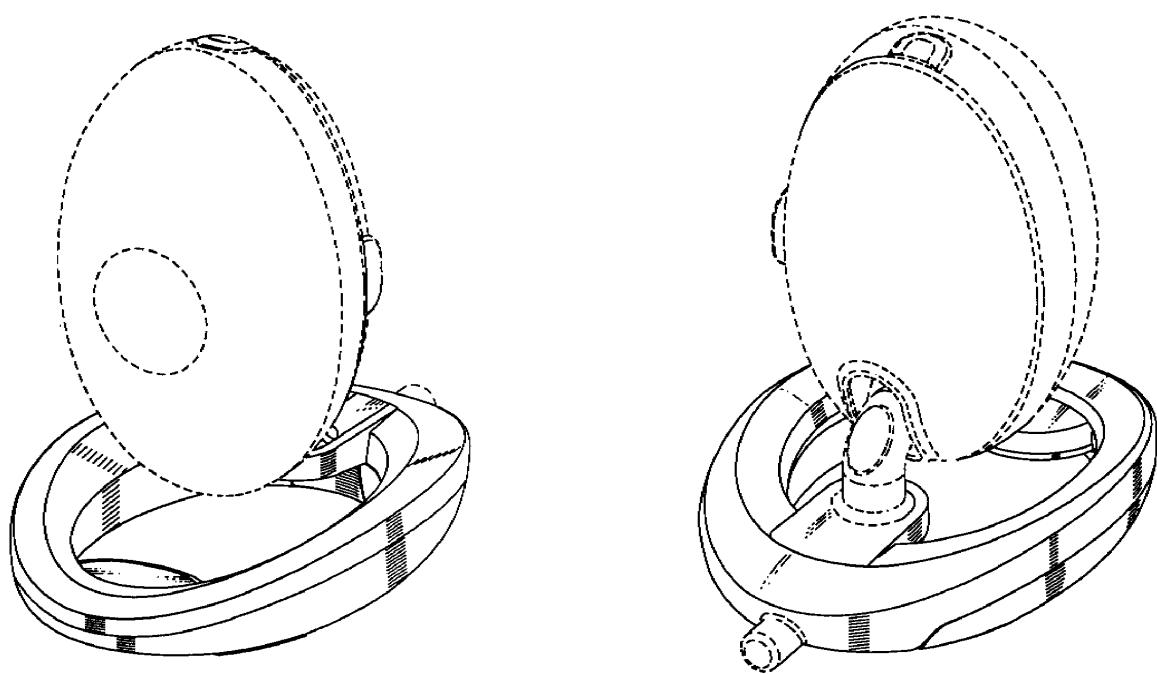
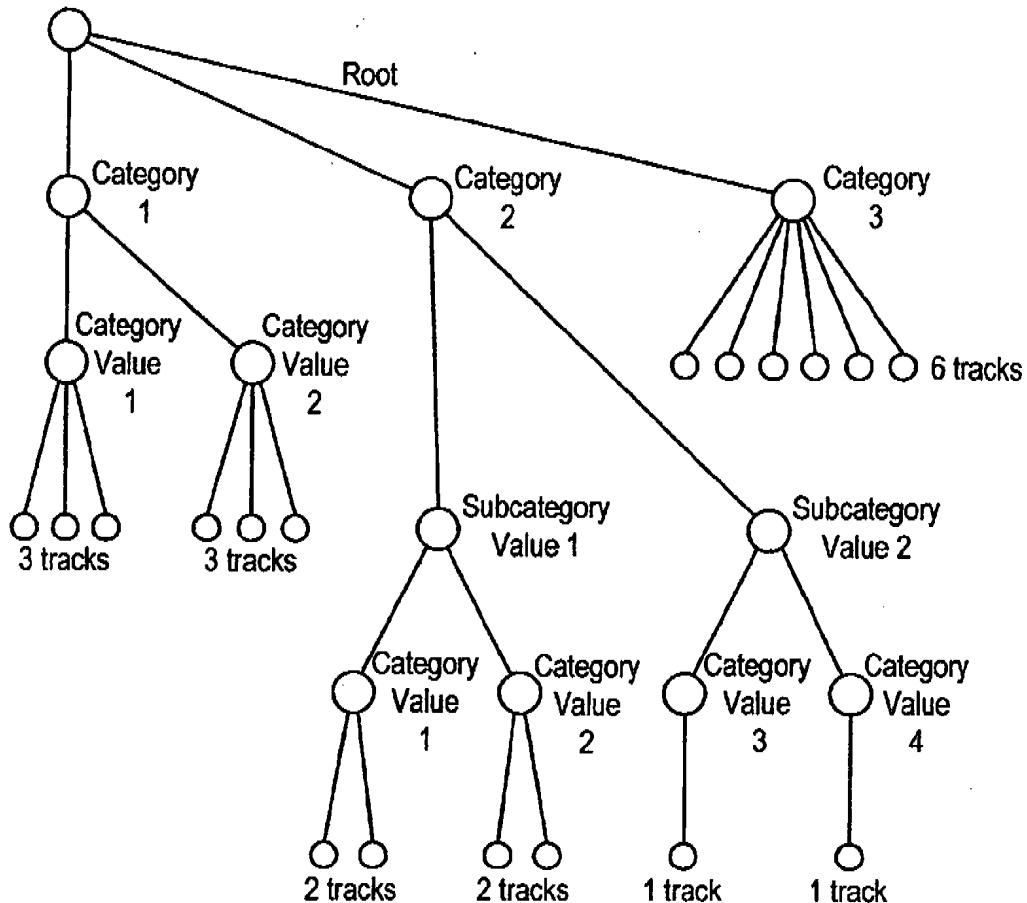


Fig. 58. Camera stand (USD529533)



For example:

Category 1 = Album Name

Category Value 1 = Abbey Road

Category Value 2 = Hits from the 60's

Category 2 = Artist Name

Subcategory Value 1 = British Artists

Subcategory Value 2 = American Artists

Category Value 1 = The Beatles

Category Value 2 = Petula Clark

Category Value 3 = Mamas and the Papas

Category Value 4 = Nick Drake

Category 3 = All tracks

Fig. 59. Automatic hierarchical categorization of music by metadata (US2005187976)

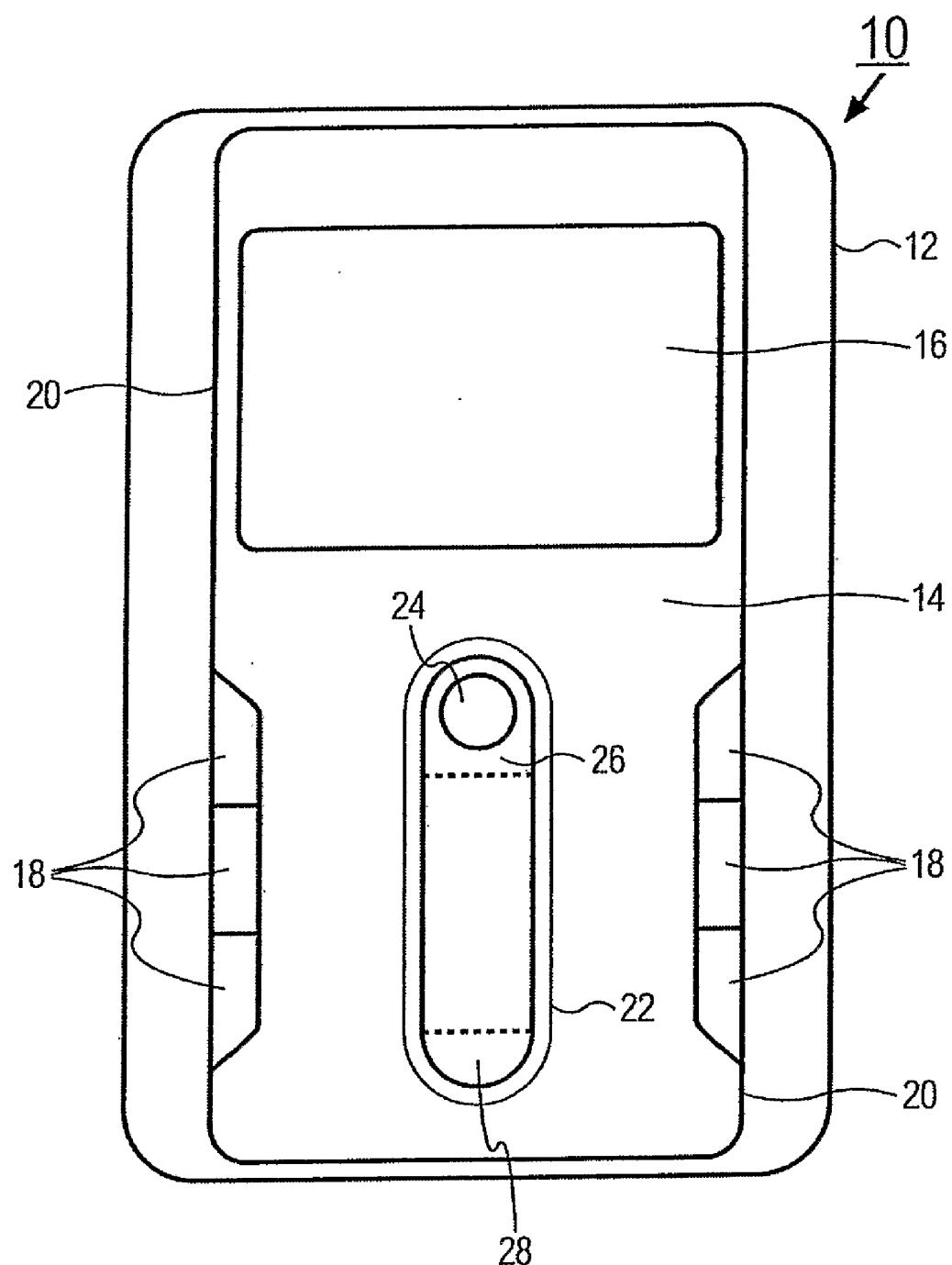


Fig. 60. Method And Apparatus For Touch Scrolling (US2008084399)

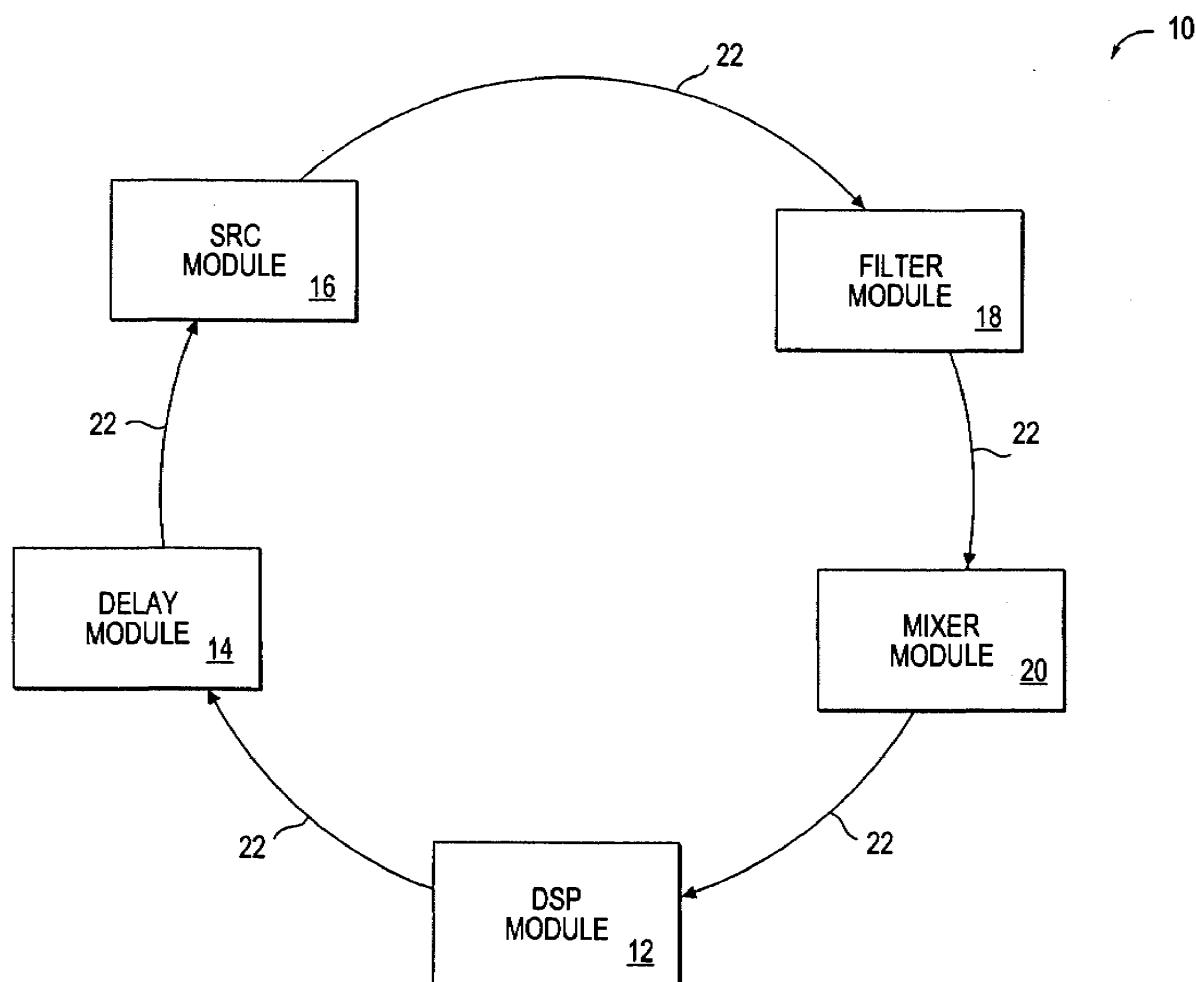


Fig. 61. Method and device to process digital media streams (US2009228127)

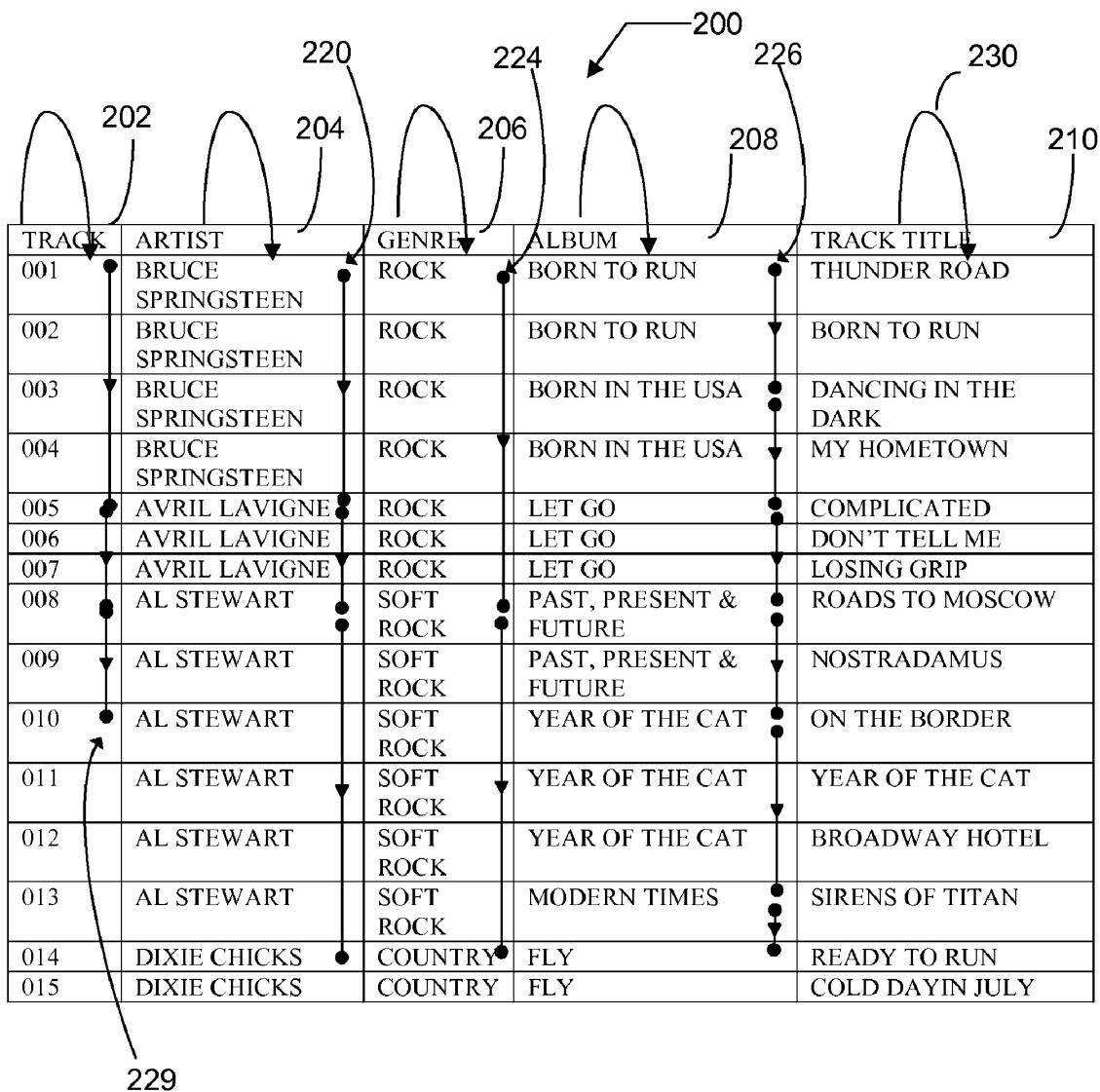


Fig. 62. System and method for modifying media content playback based on limited input (US8762843)

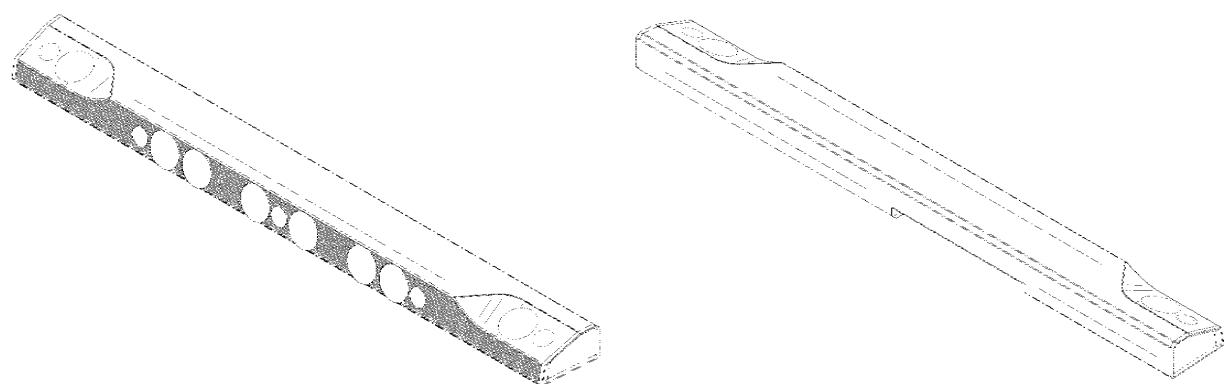


Fig. 63. Sound device (USD802560)

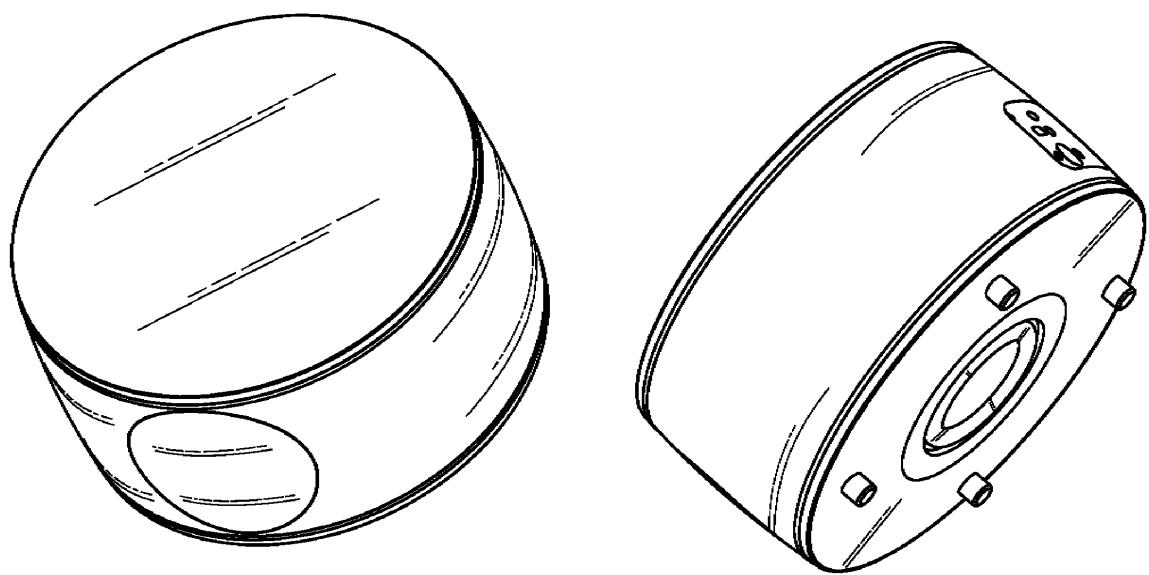


Fig. 64. Loudspeaker (USD617314)

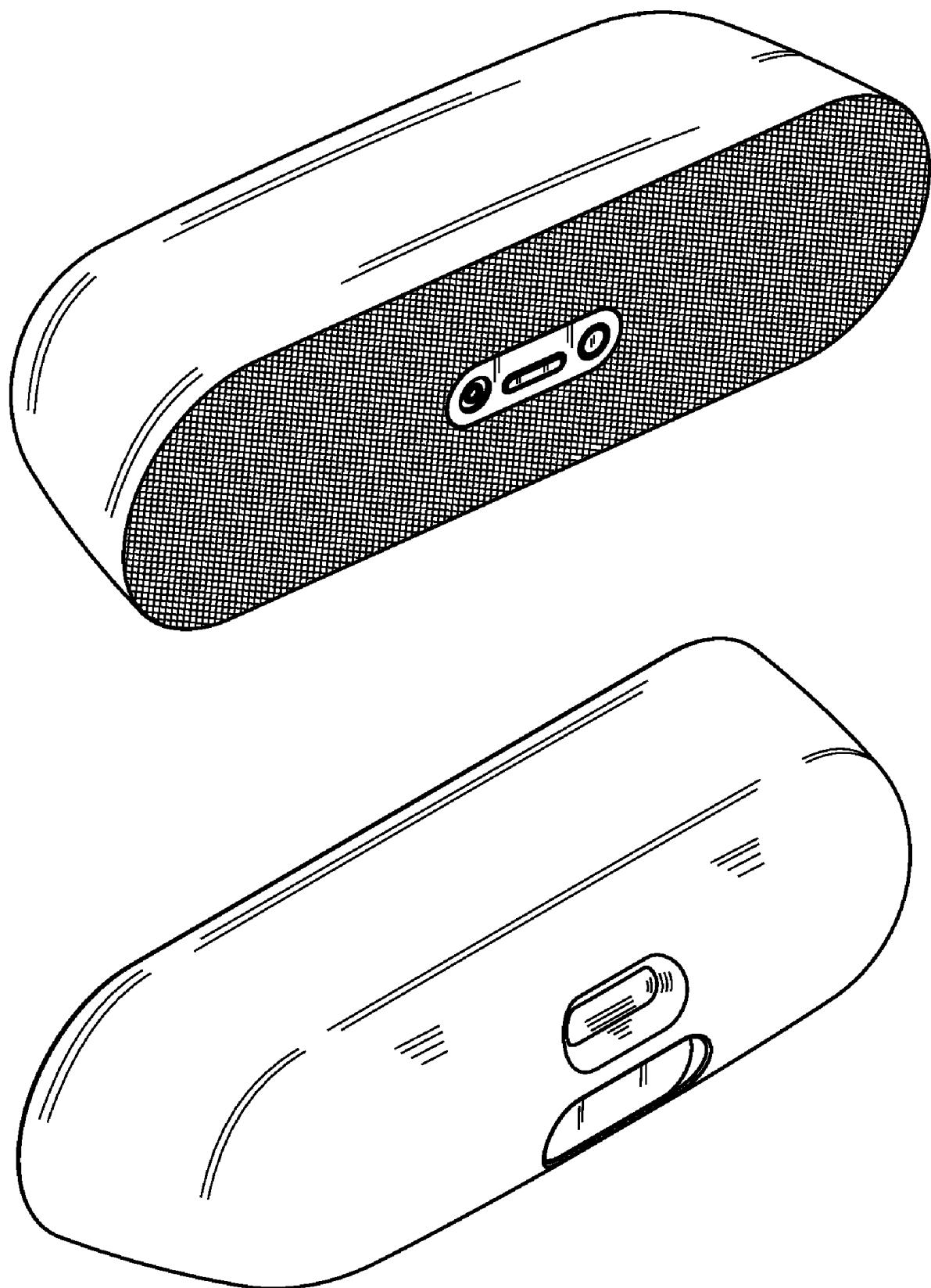


Fig. 65. Speaker (USD681010)

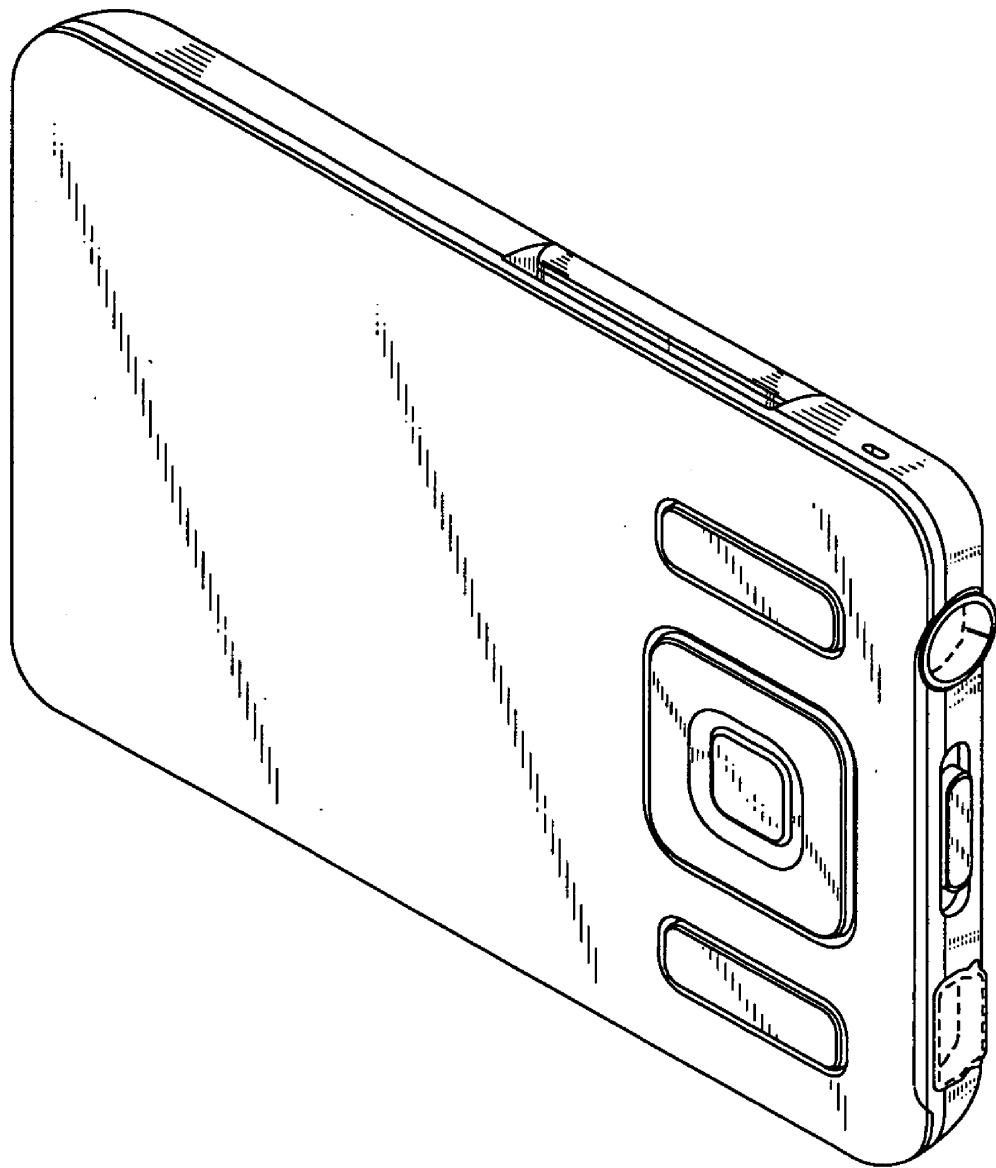


Fig. 66. Media player (USD561204)

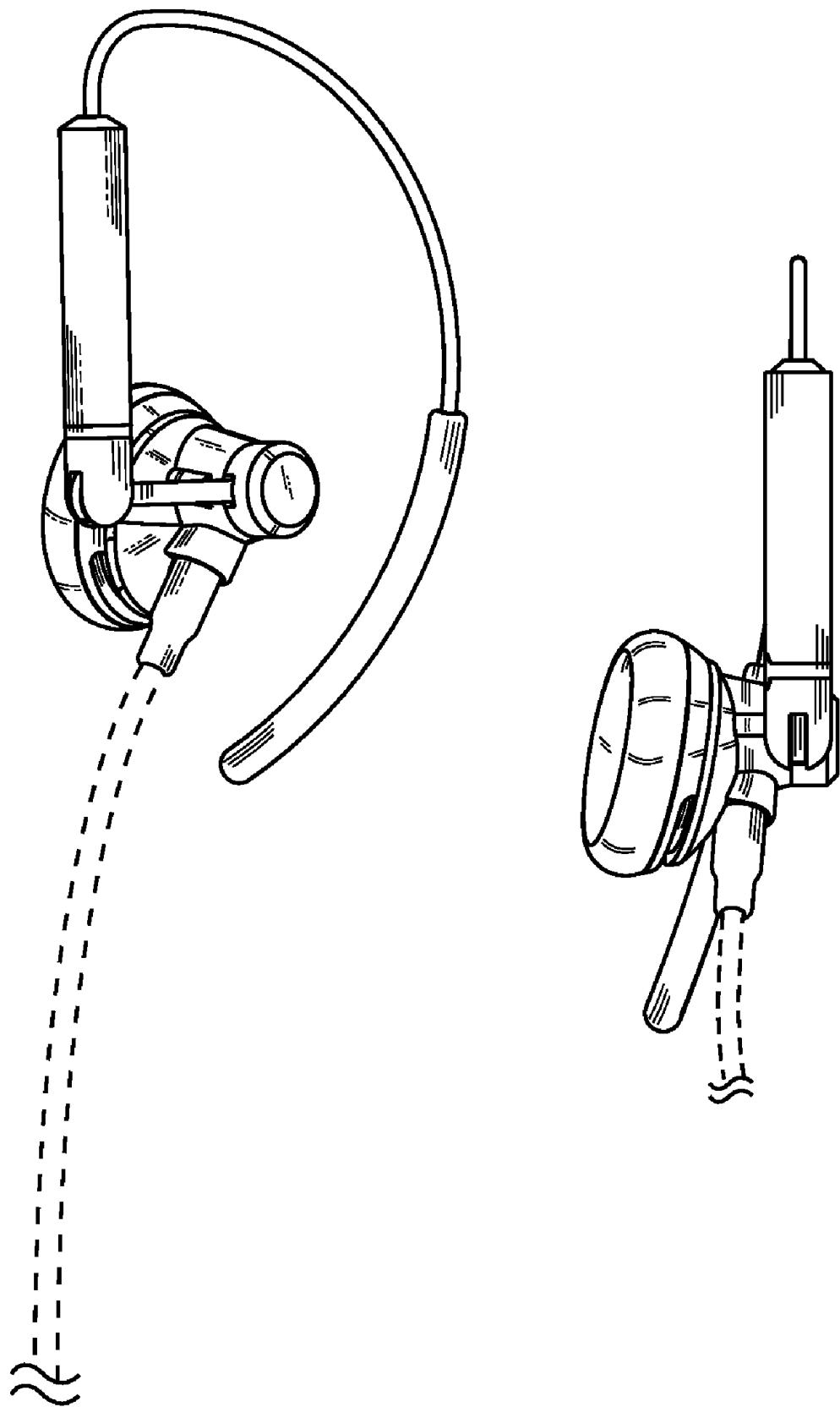


Fig. 67. Earphone (USD606048)

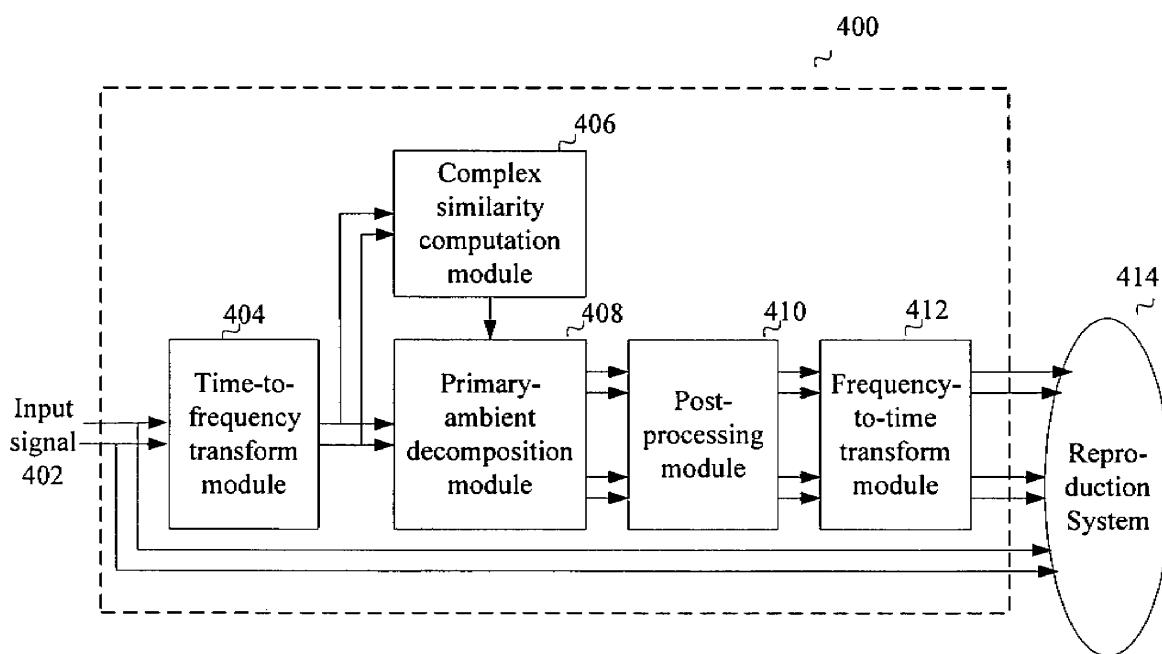


Fig. 68. Primary ambient decomposition of stereo audio signals using a complex similarity index (US8103005)

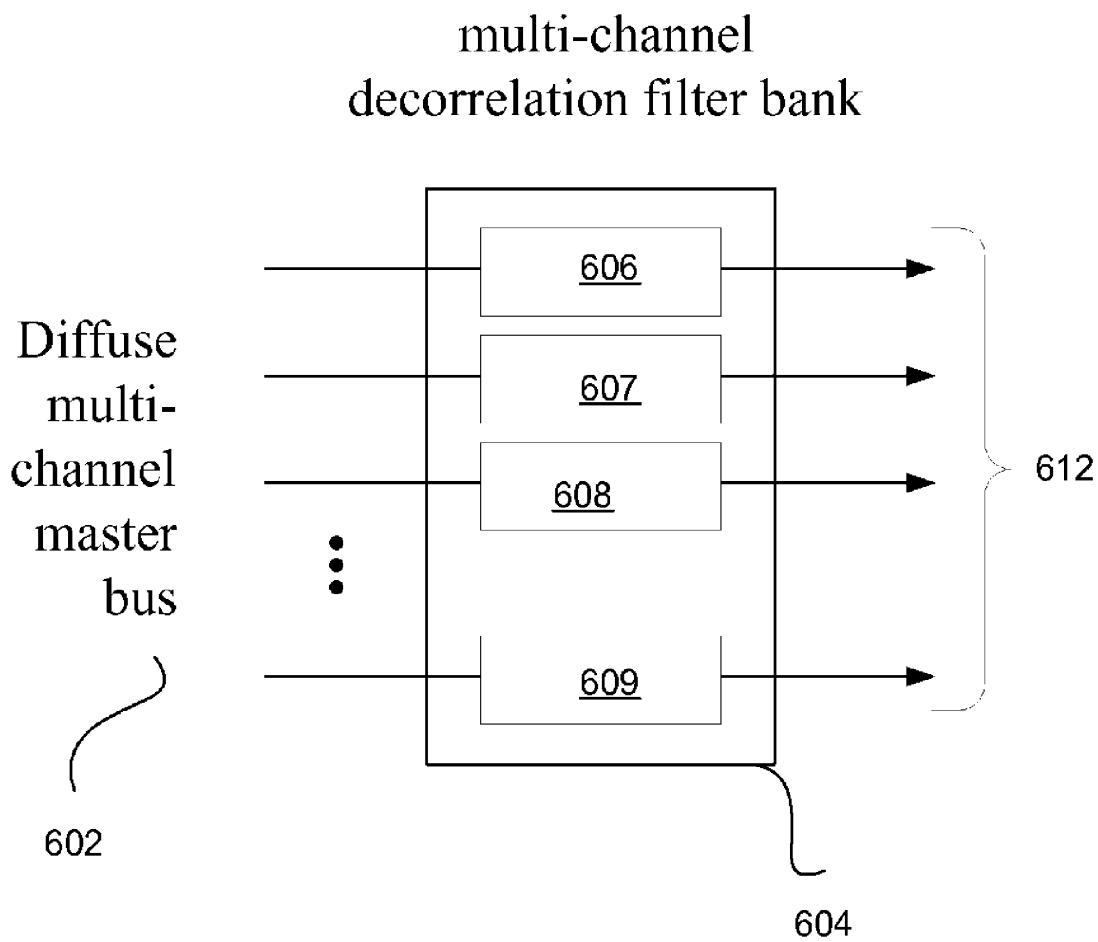


Fig. 69. 3D audio renderer (US8488796)

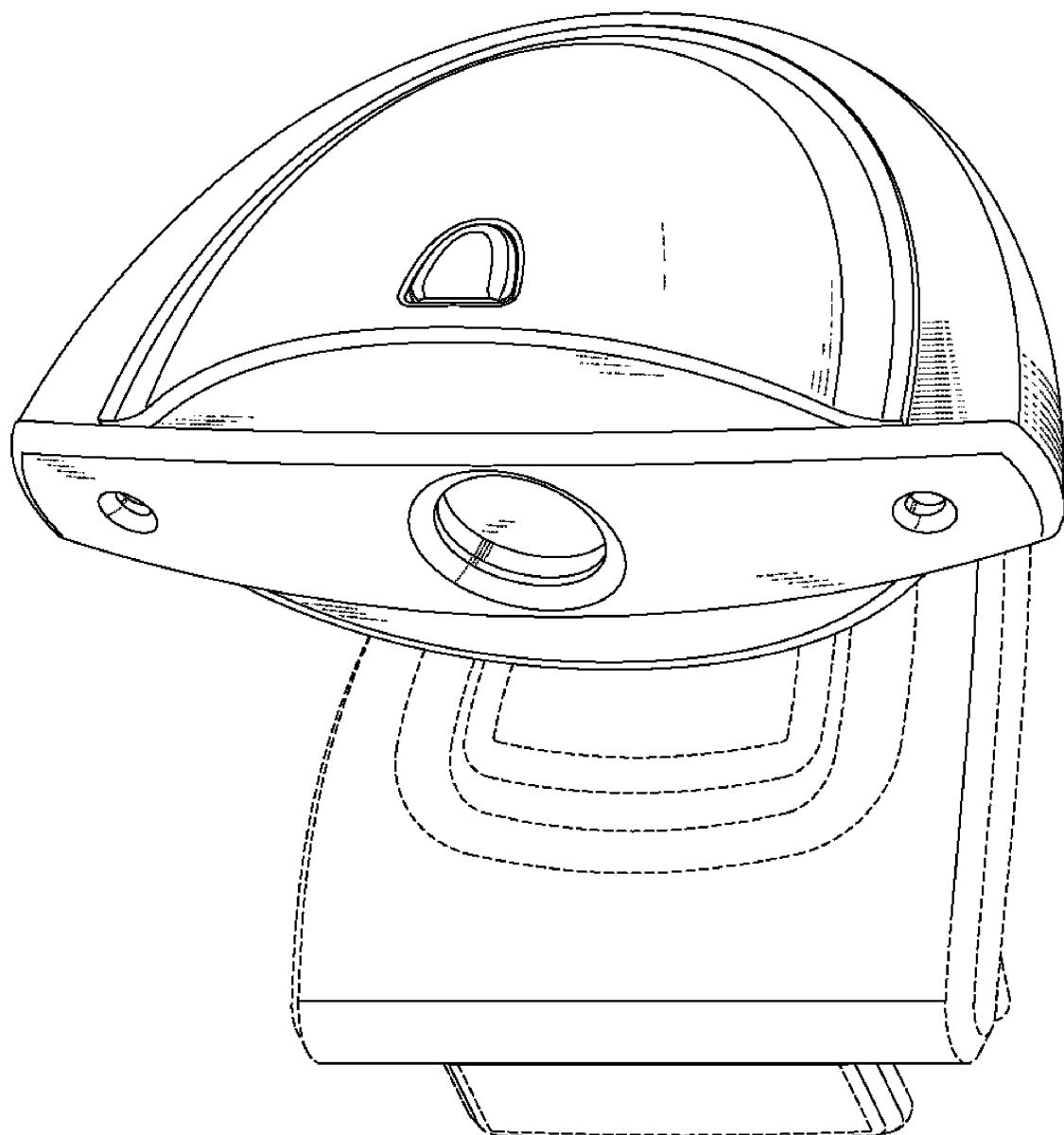


Fig. 70. Camera (USD550266)

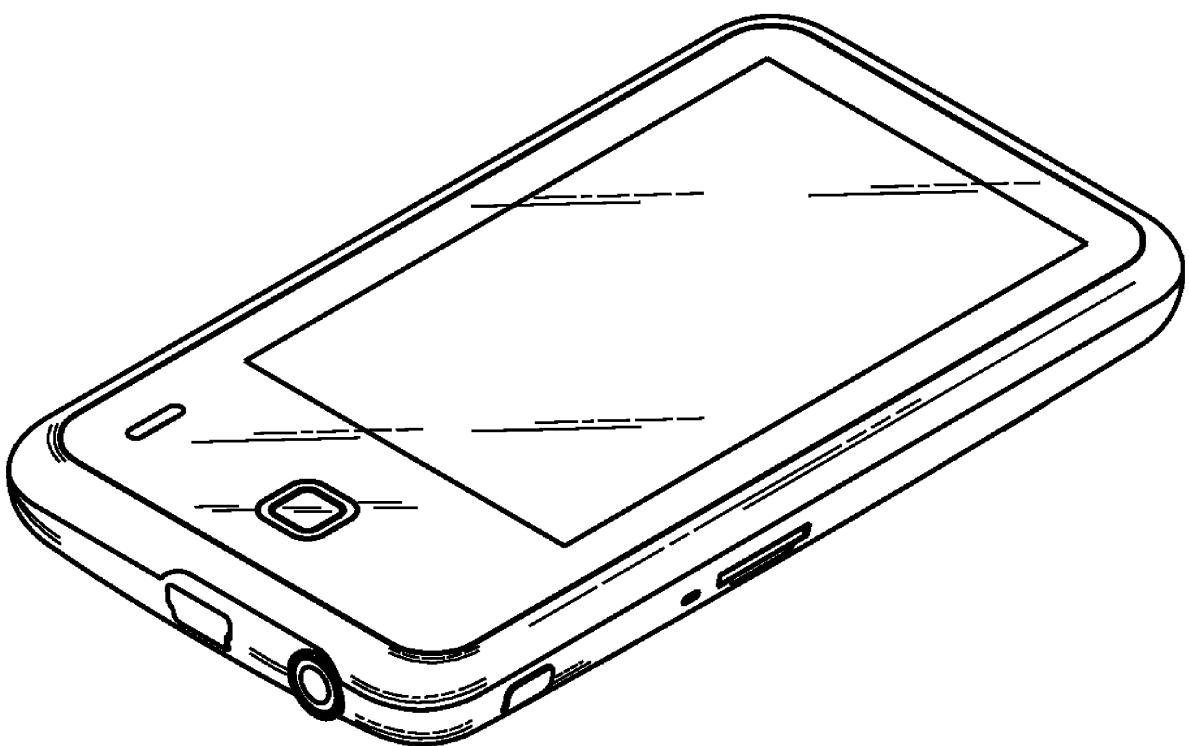


Fig. 71. Media player (USD610568)

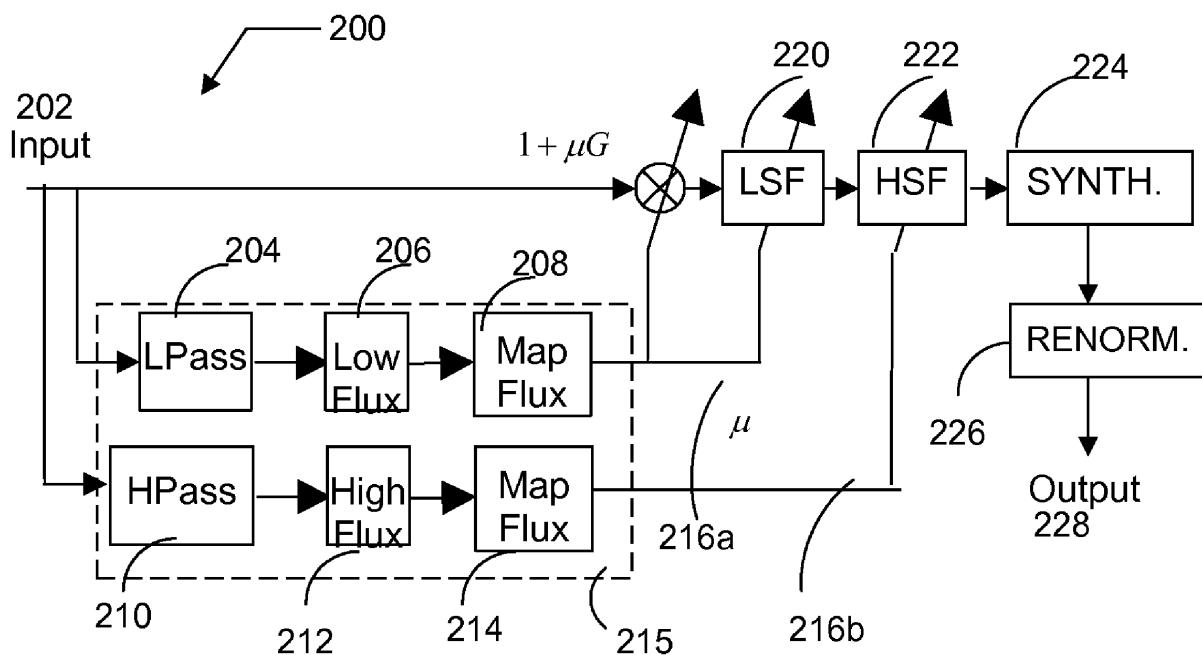


Fig. 72. Method for enhancing audio signals (US8750538)

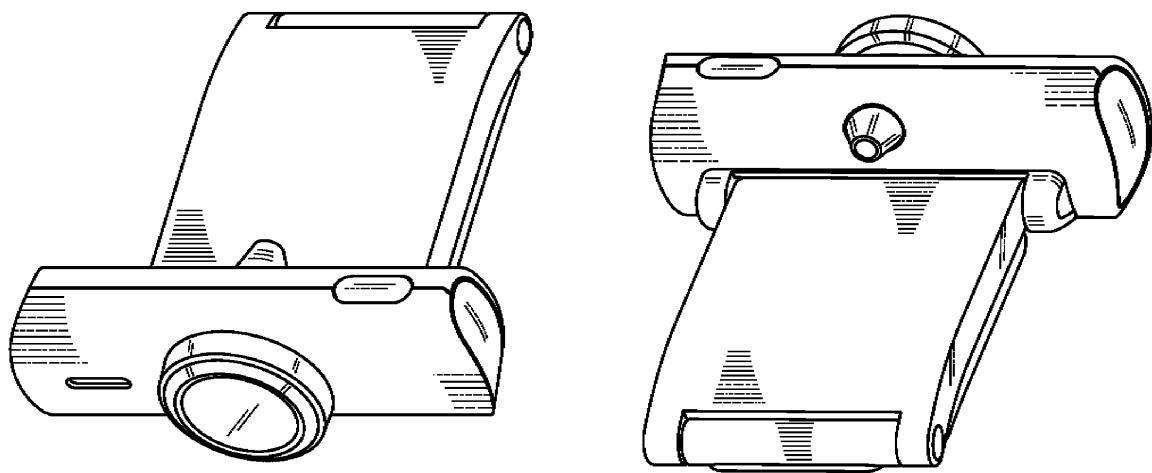


Fig. 73. Camera (USD631497)

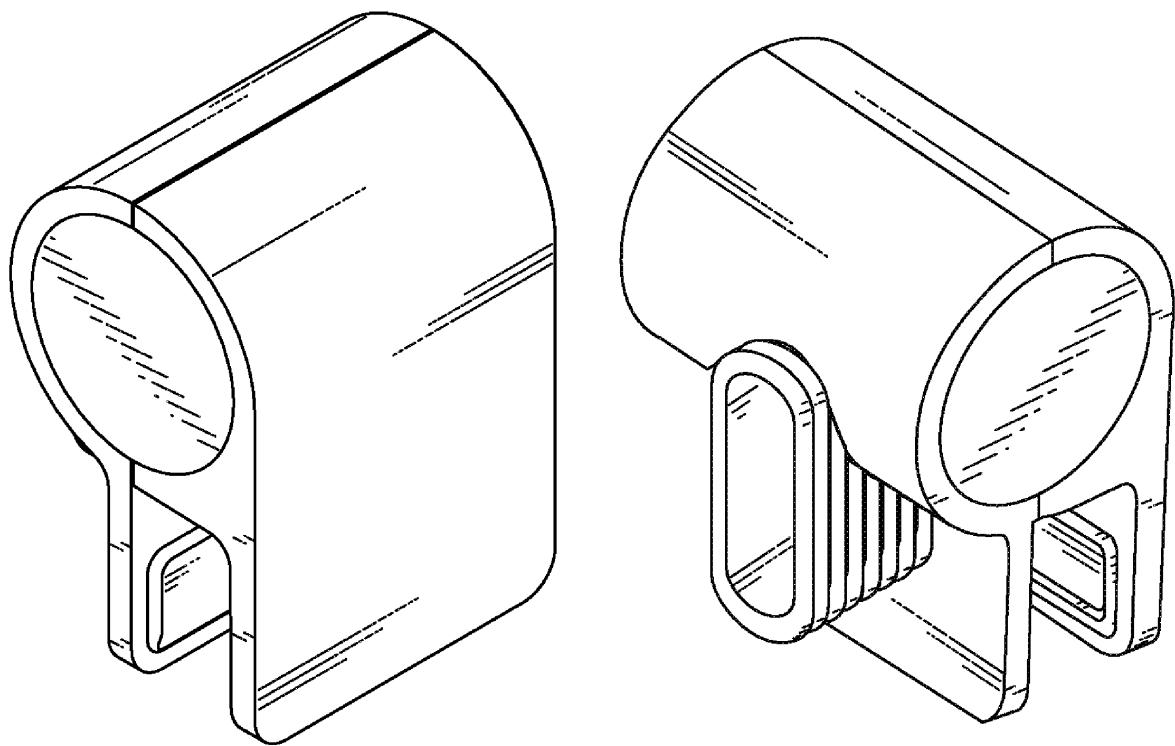


Fig. 74. Camera clip (USD563452)

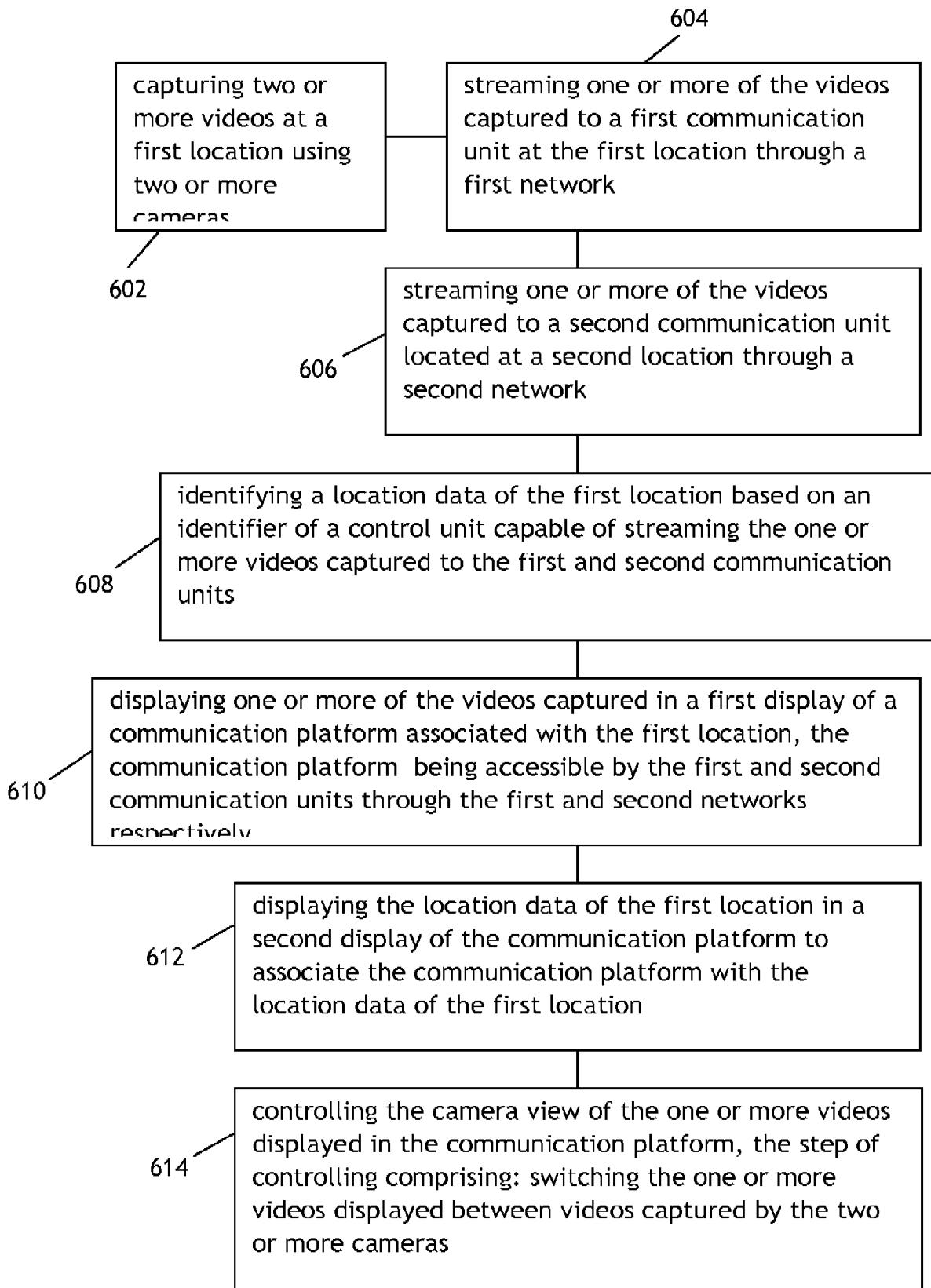


Fig. 75. System and method for facilitating user communication from a location (US8154580)



Fig. 76. Electronic reader device (USD638014)

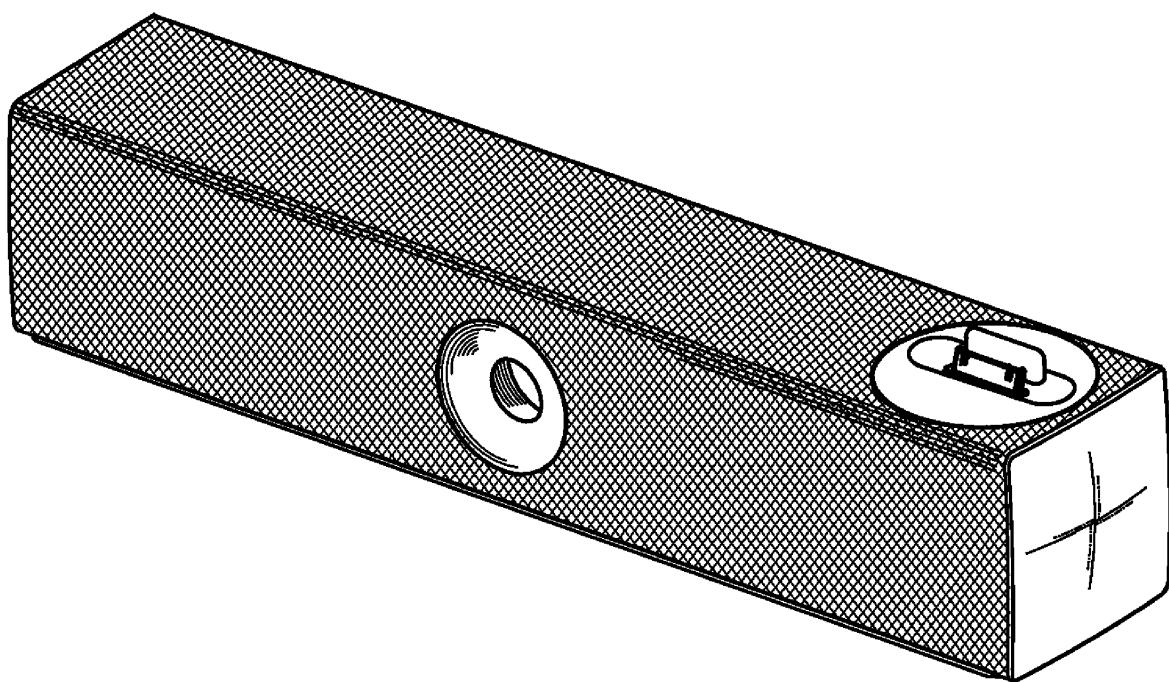


Fig. 77. Loudspeaker (USD597529)

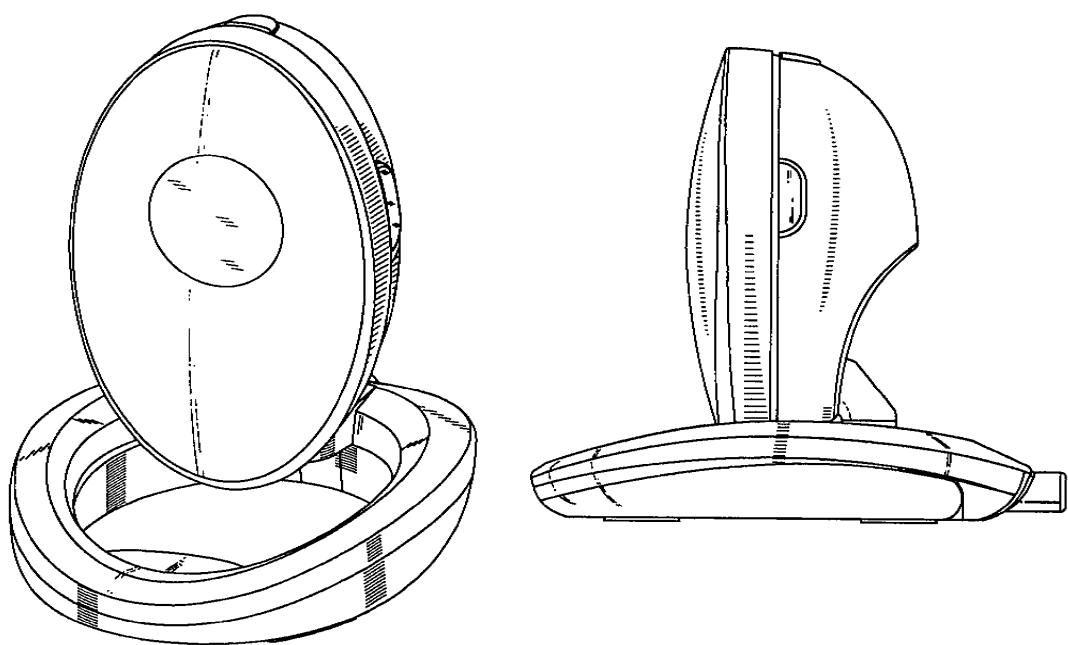


Fig. 78. Camera (USD550267)

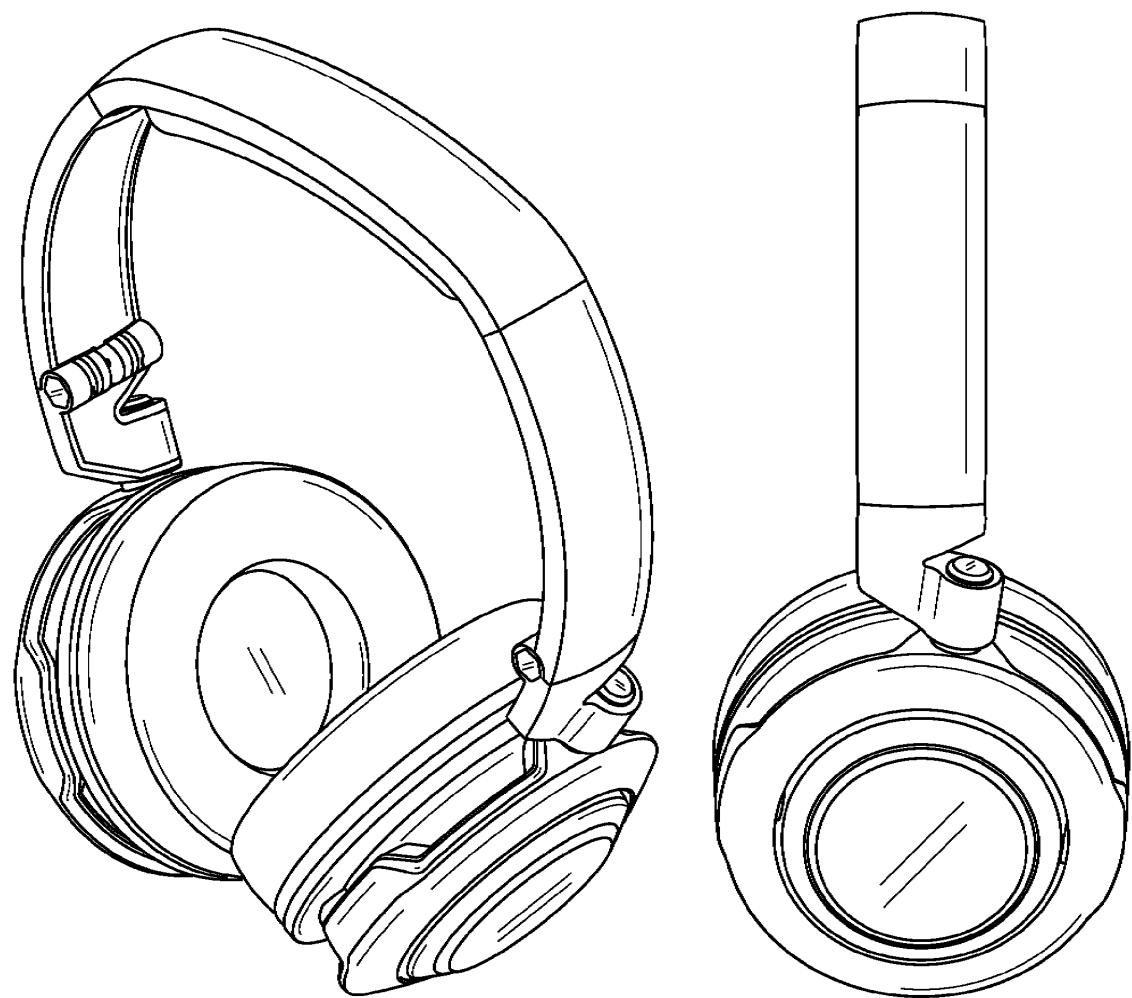


Fig. 79. Headphone (USD710822)

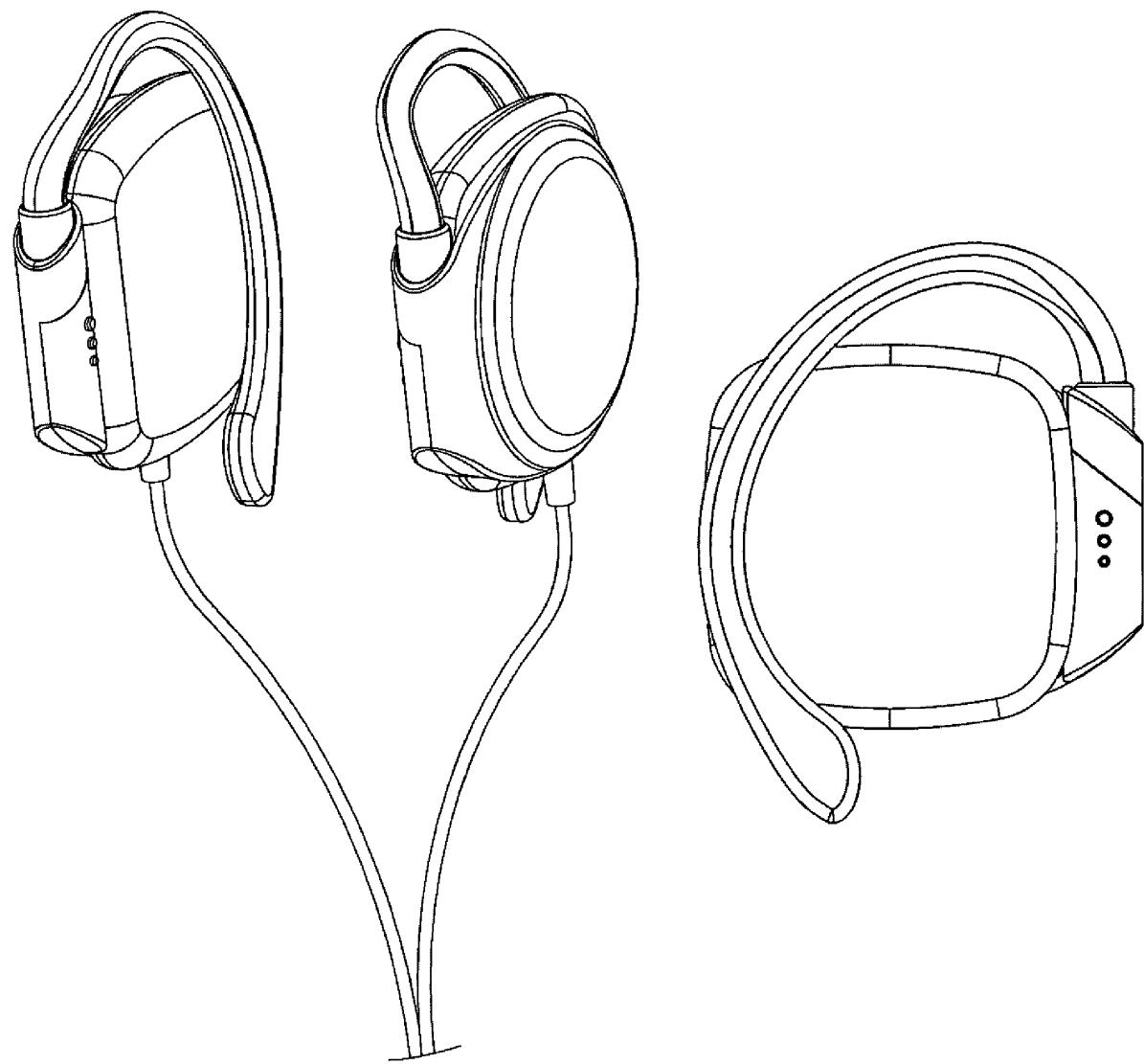


Fig. 80. Earphones (USD584283)

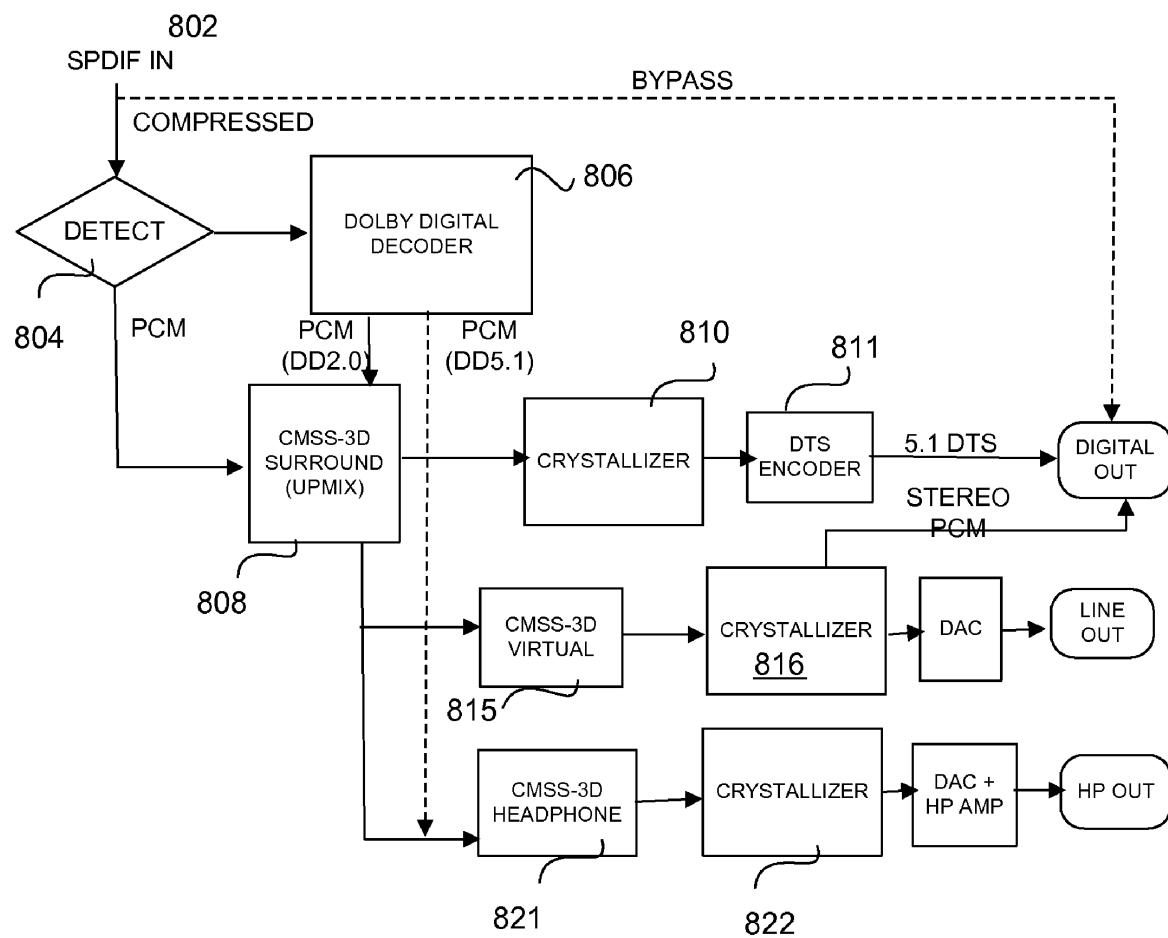


Fig. 81. Audio enhancement module for portable media player (US9100765)

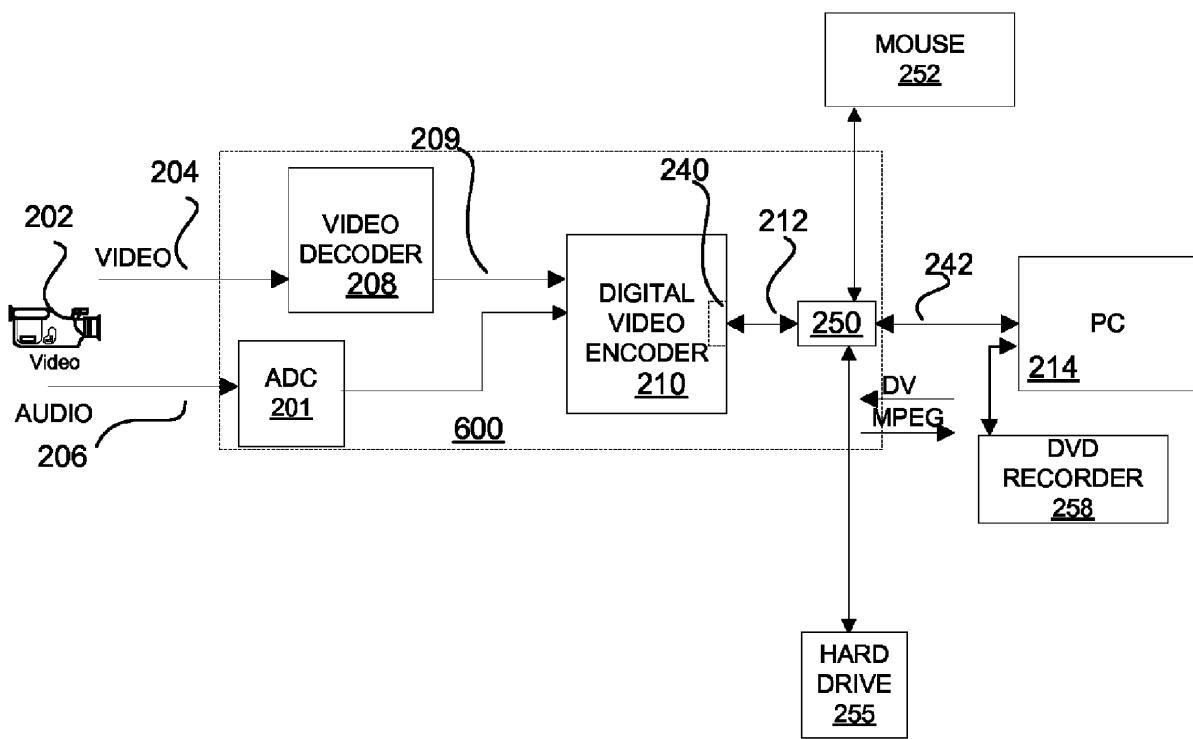


Fig. 82. Method and apparatus for encoding video in conjunction with a host processor (US7970049)

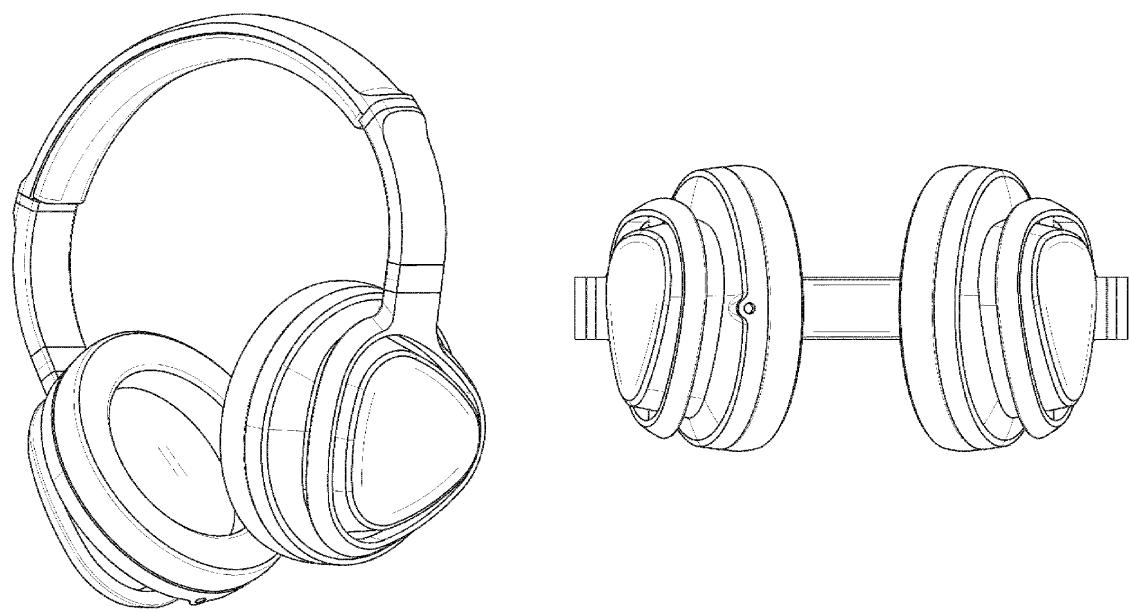


Fig. 83. Headphone (USD716256)

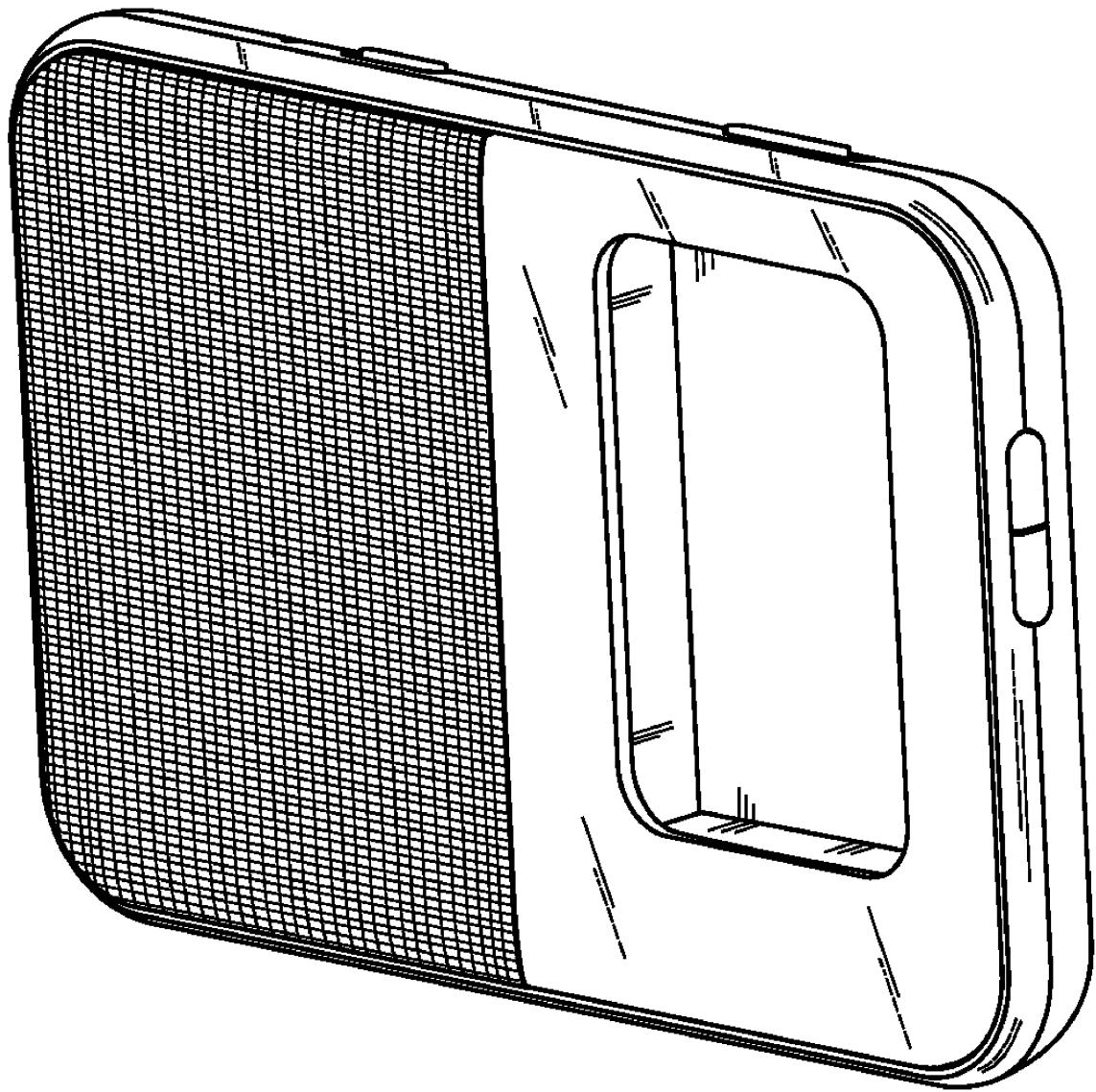


Fig. 84. Loudspeaker (USD596618)

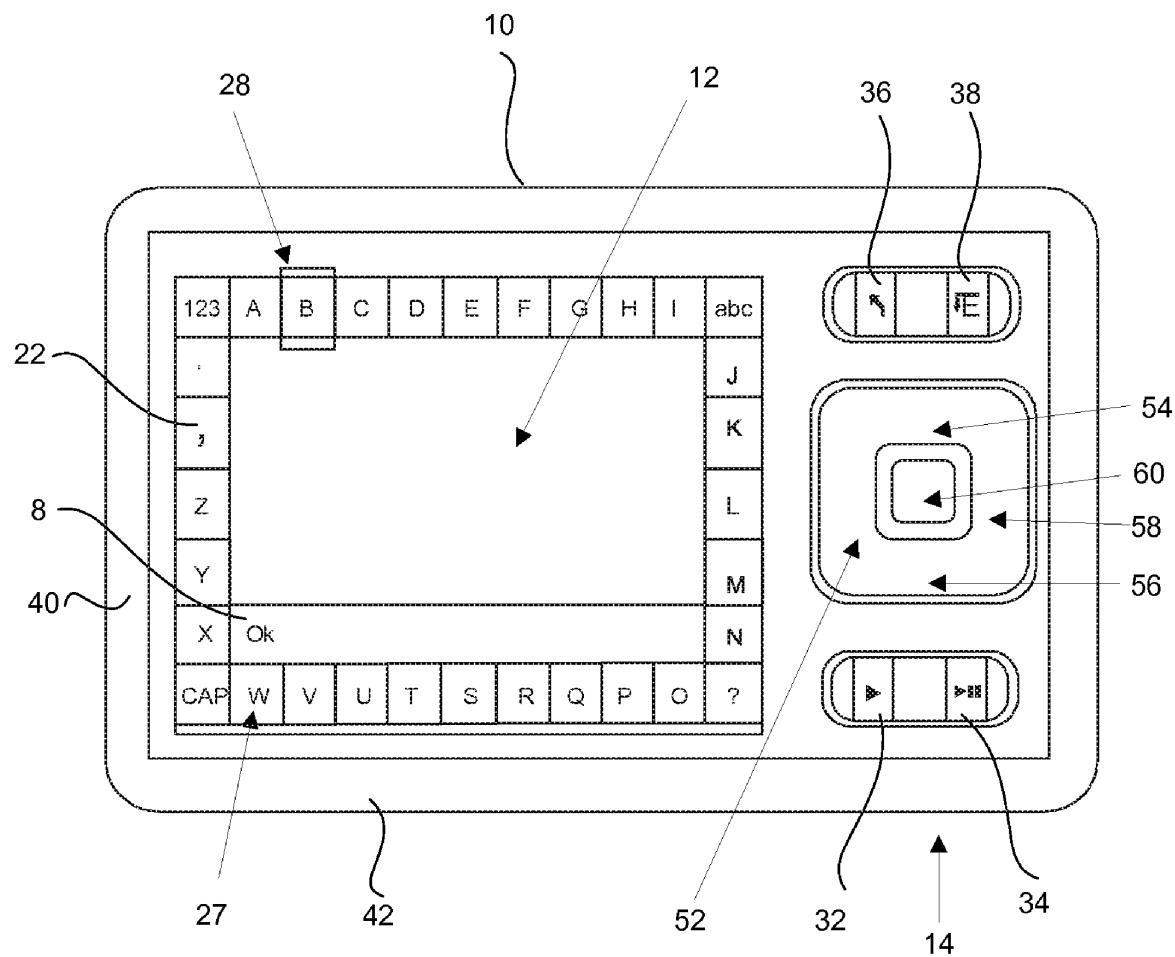


Fig. 85. Apparatus and method for information input in an electronic device with display (US8667413)

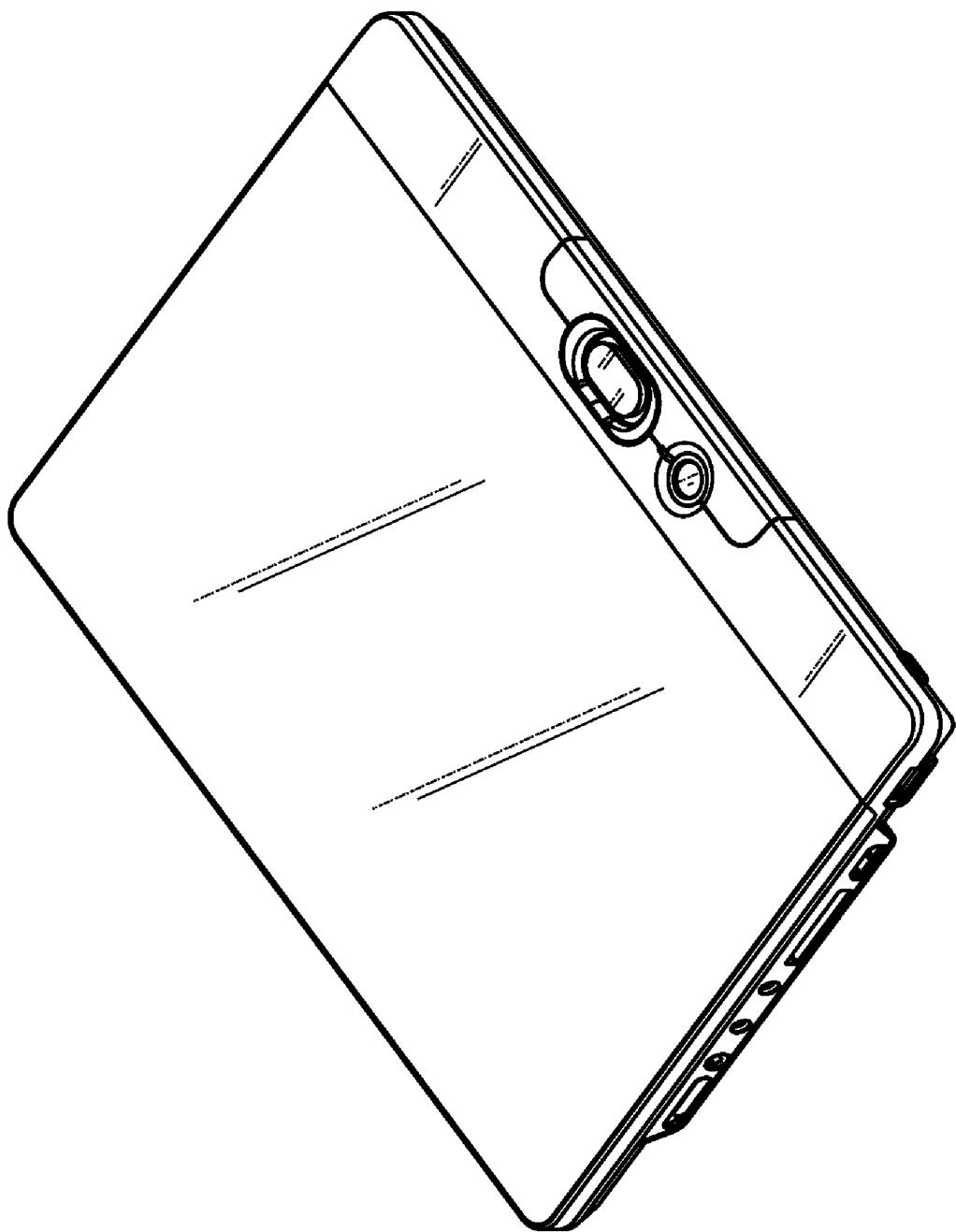


Fig. 86. Electronic reader device (USD638015)

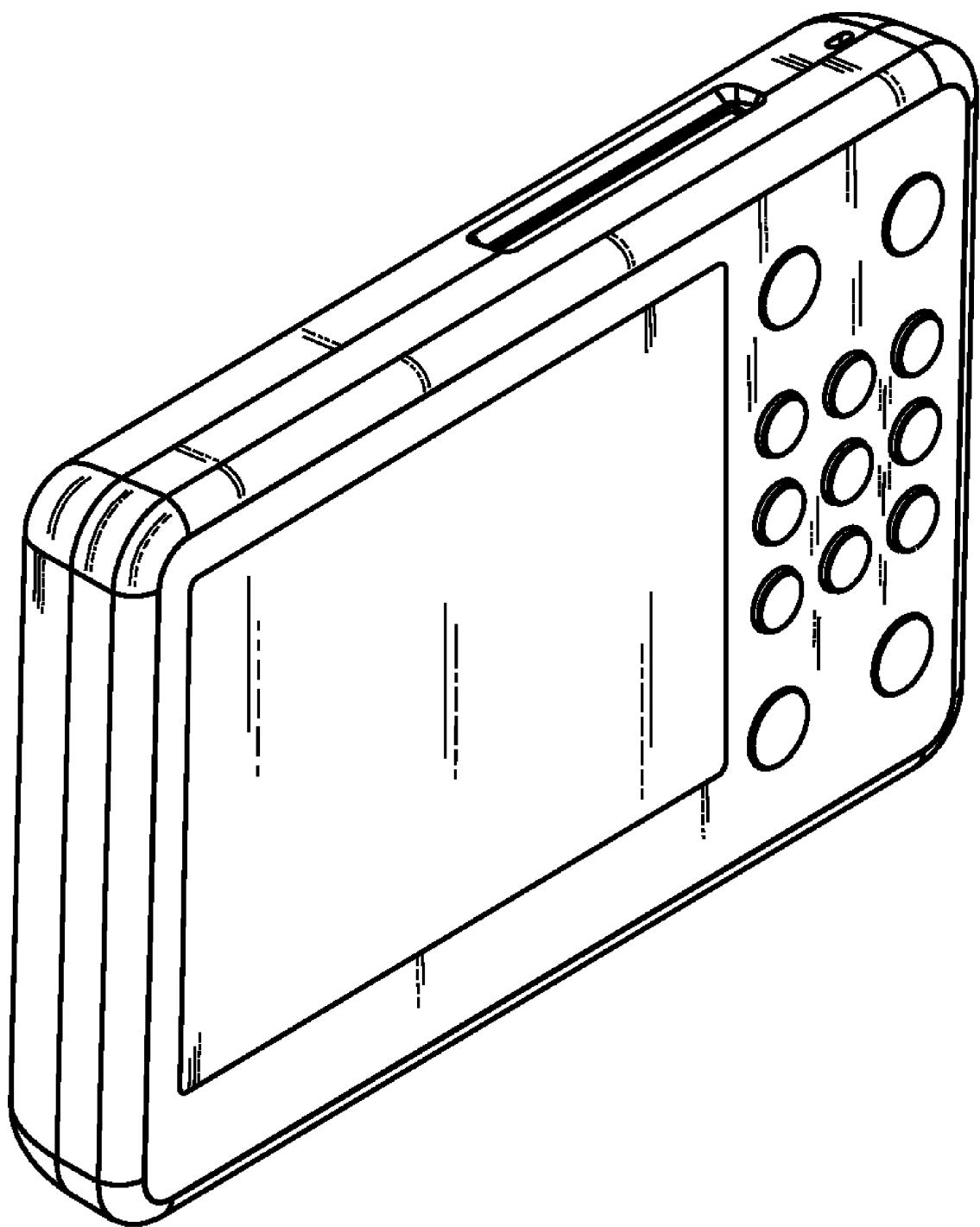


Fig. 87. Media player (USD583828)

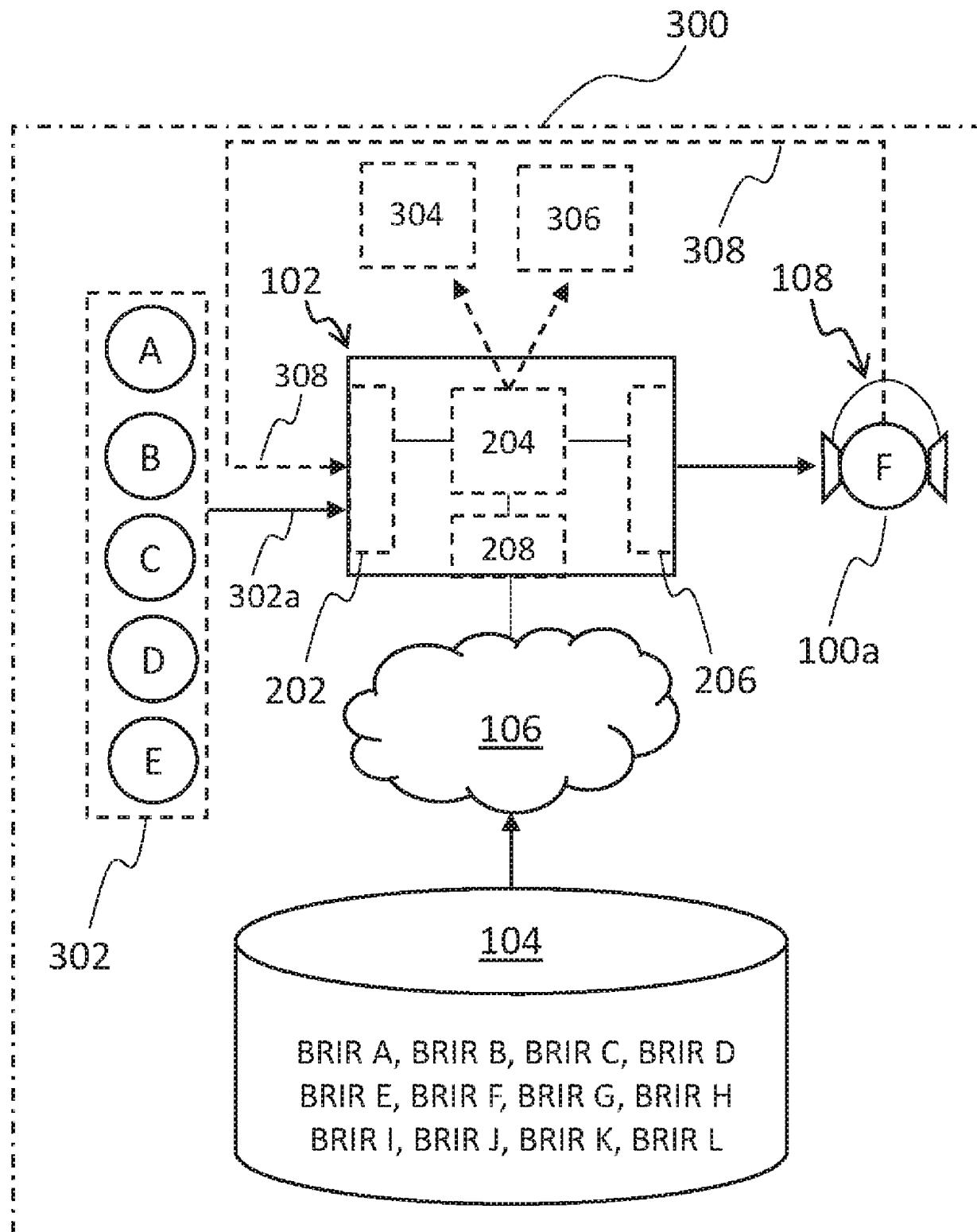


Fig. 88. System and a processing method for customizing audio experience (US11051122)

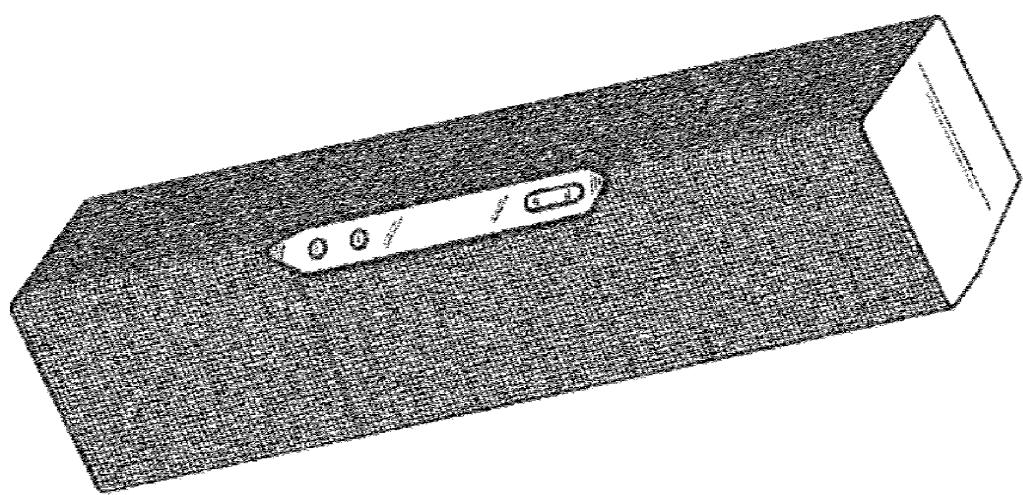


Fig. 89. Speaker (USD672747)

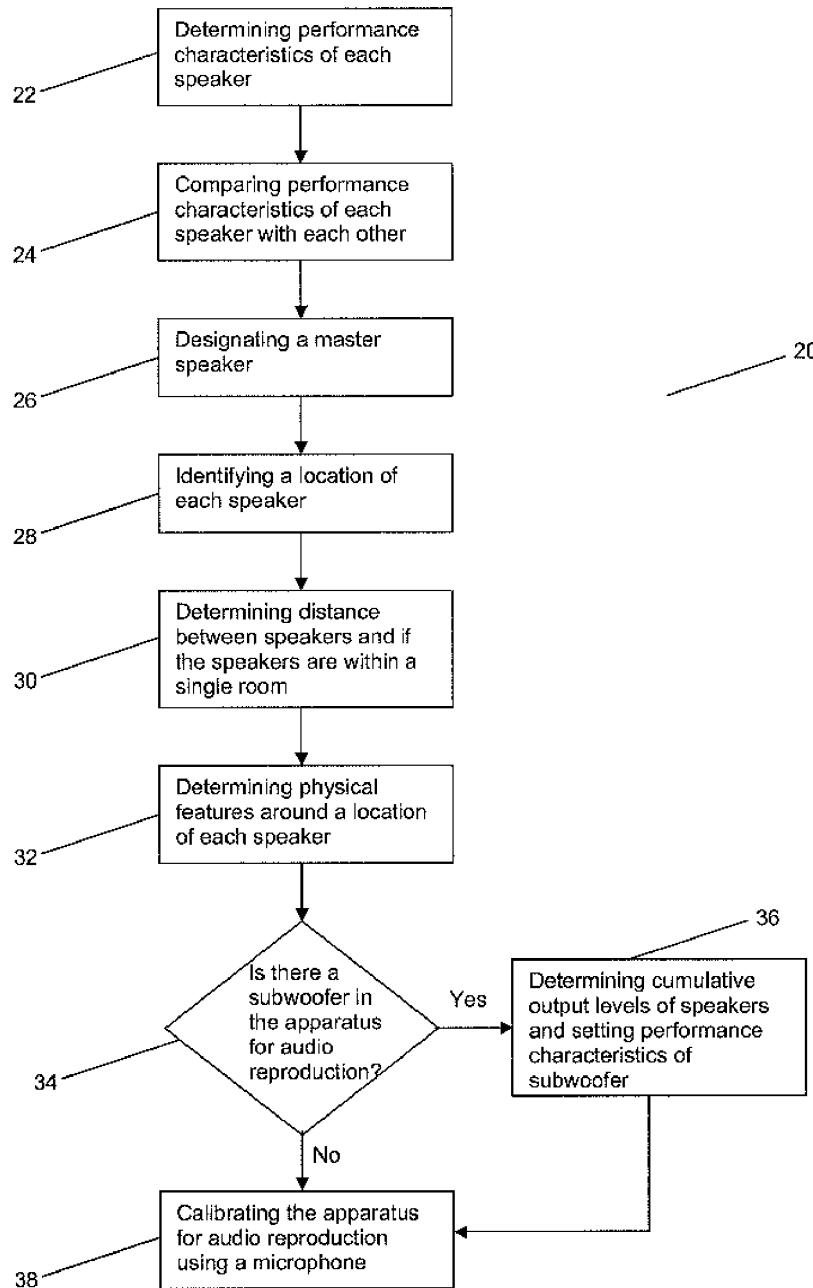


Fig. 90. Method for optimizing reproduction of audio signals from an apparatus for audio reproduction (US2013051572)

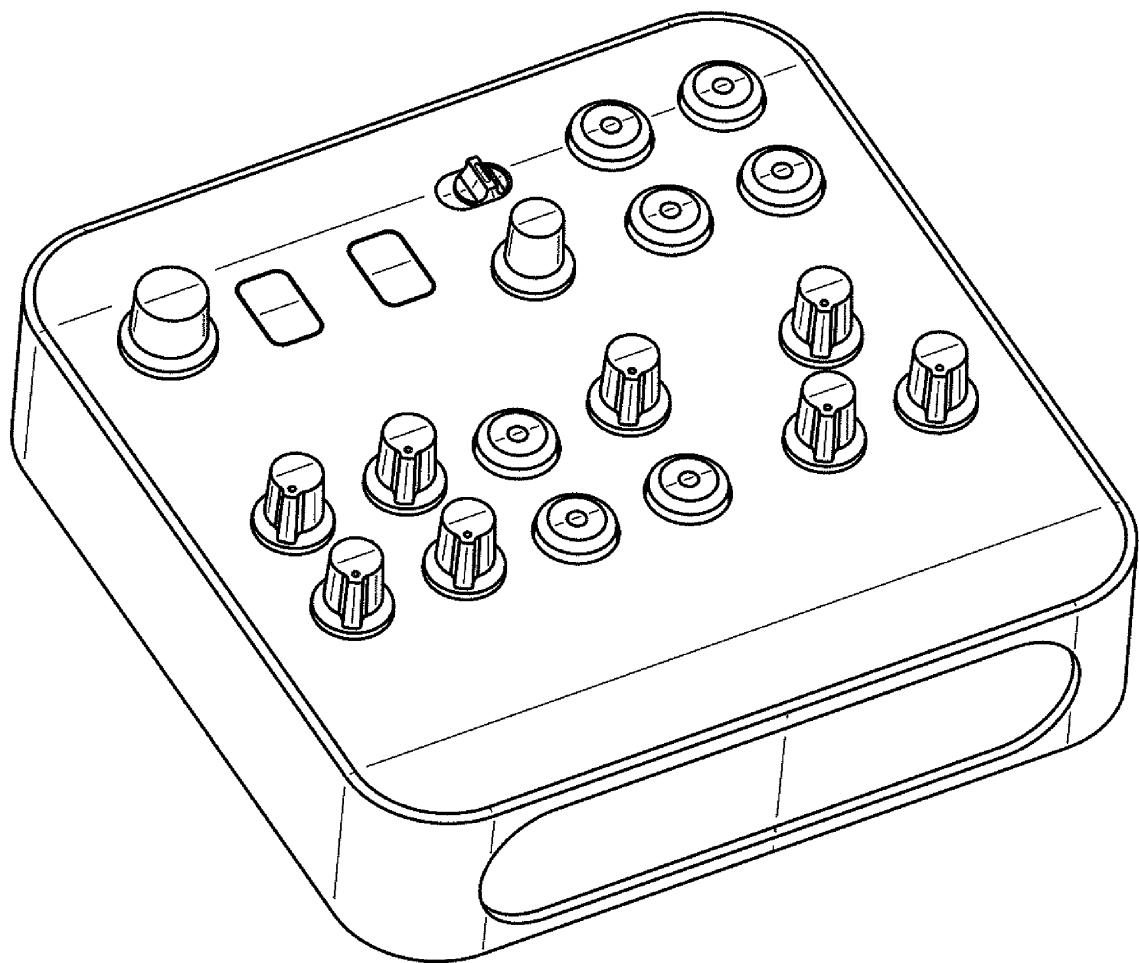


Fig. 91. Control module (USD832822)

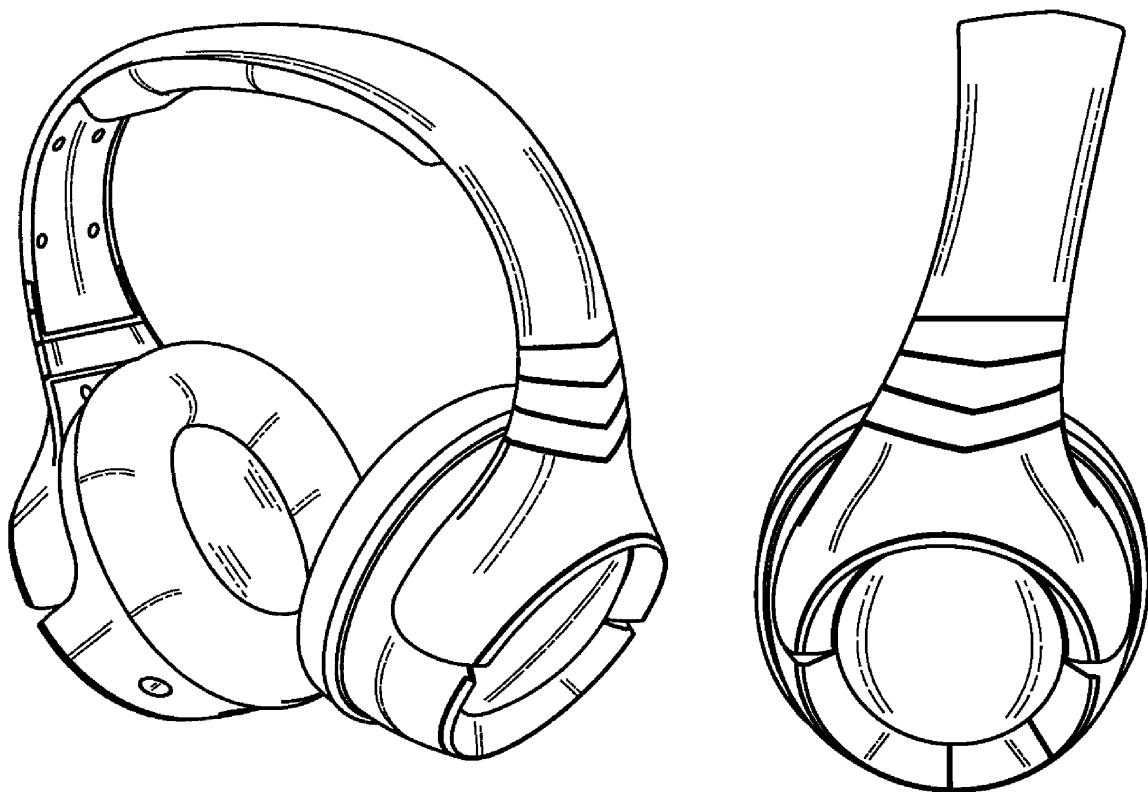


Fig. 92. Headphone (USD628554)

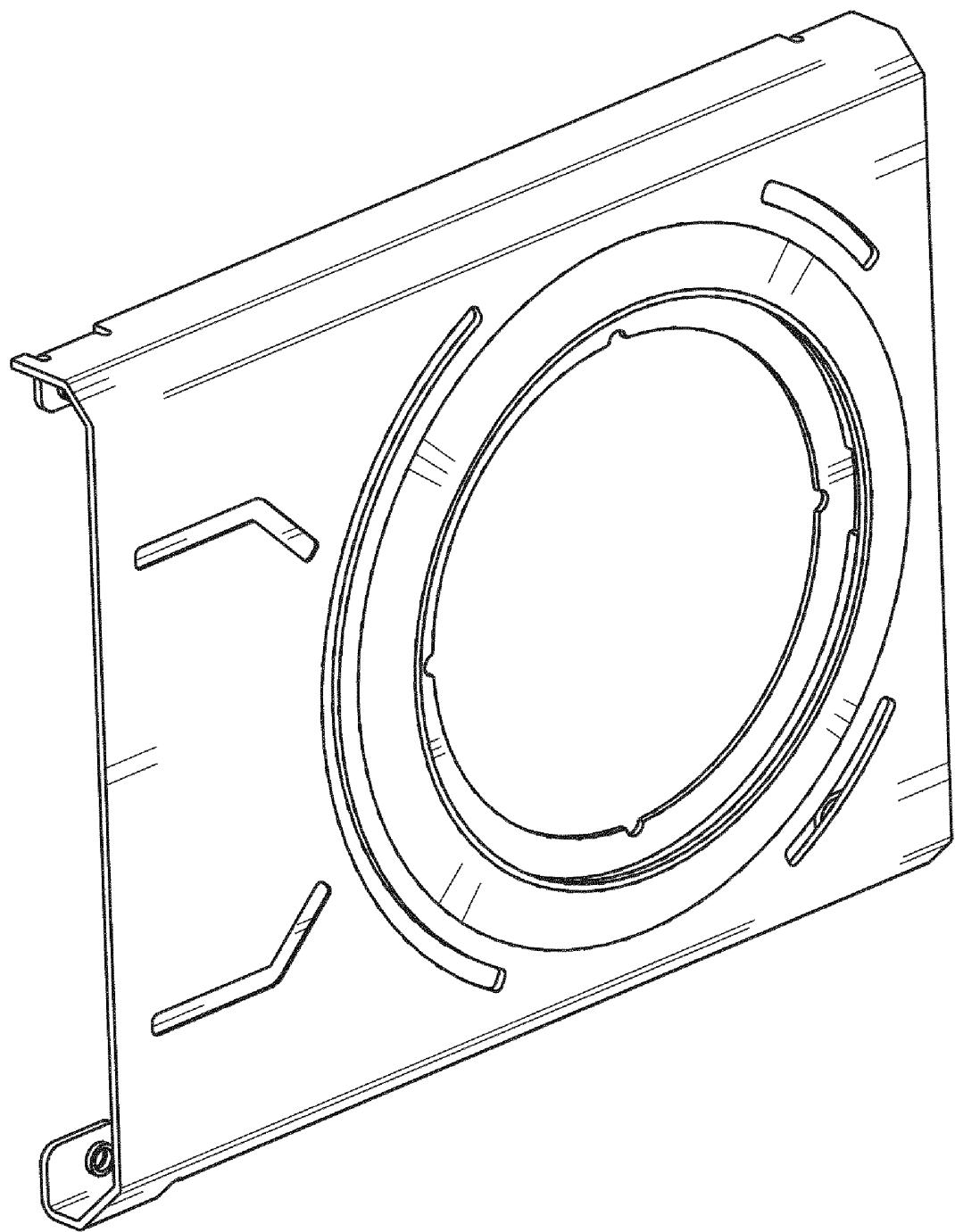


Fig. 93. Shield (USD694242)

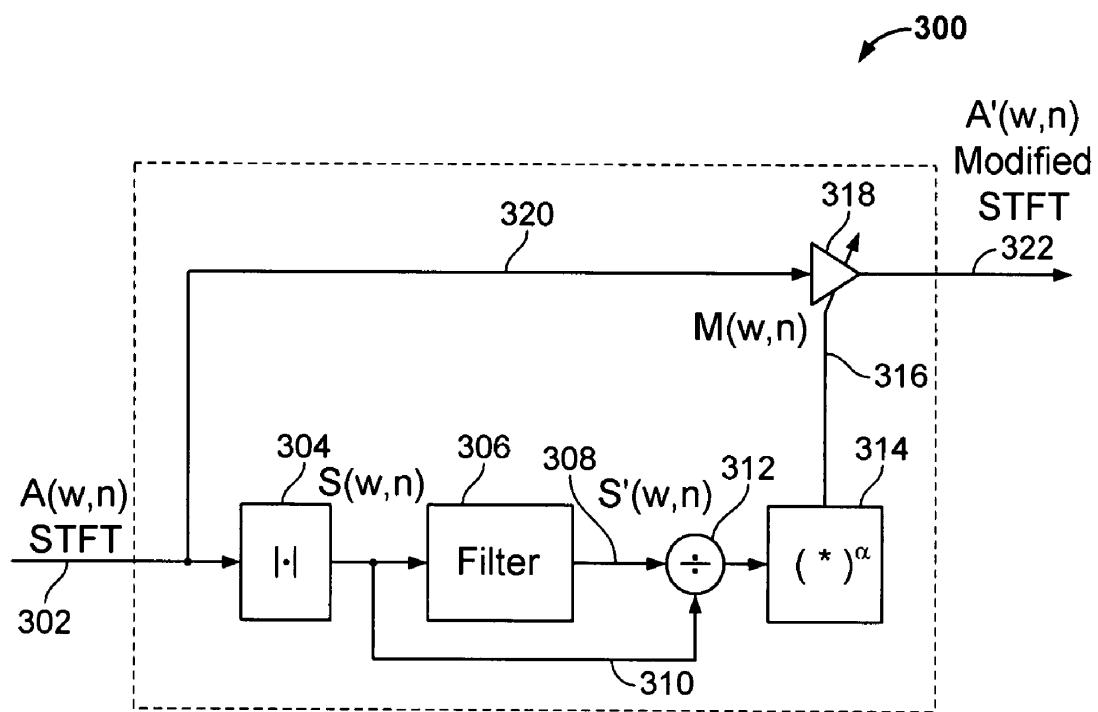


Fig. 94. Enhancing audio signals by nonlinear spectral operations (US8103020)

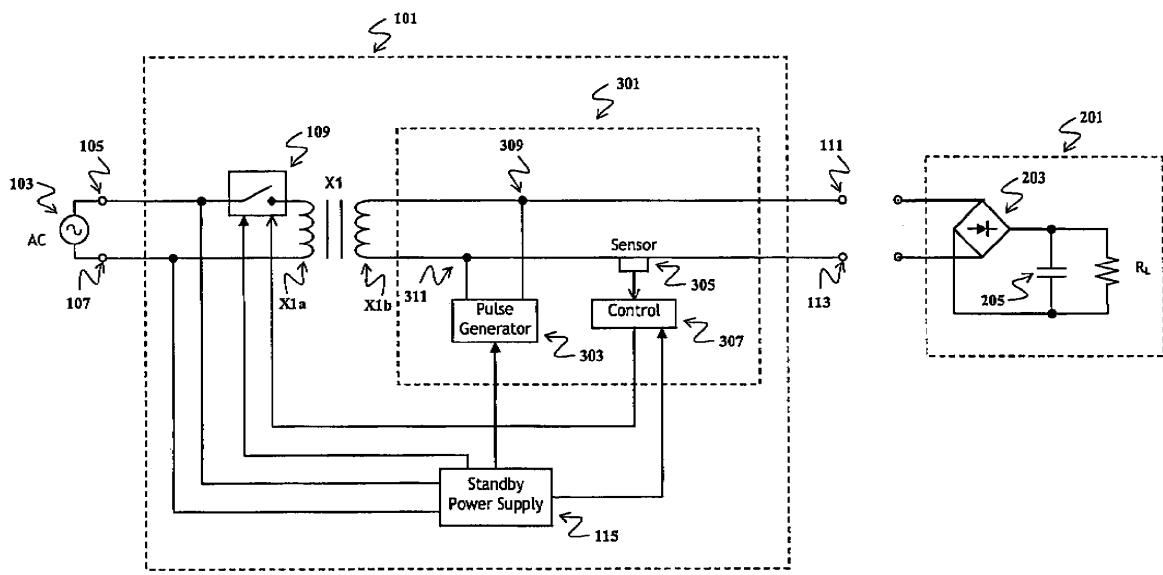


Fig. 95. Load detector for an AC AC power supply (US2007047270)

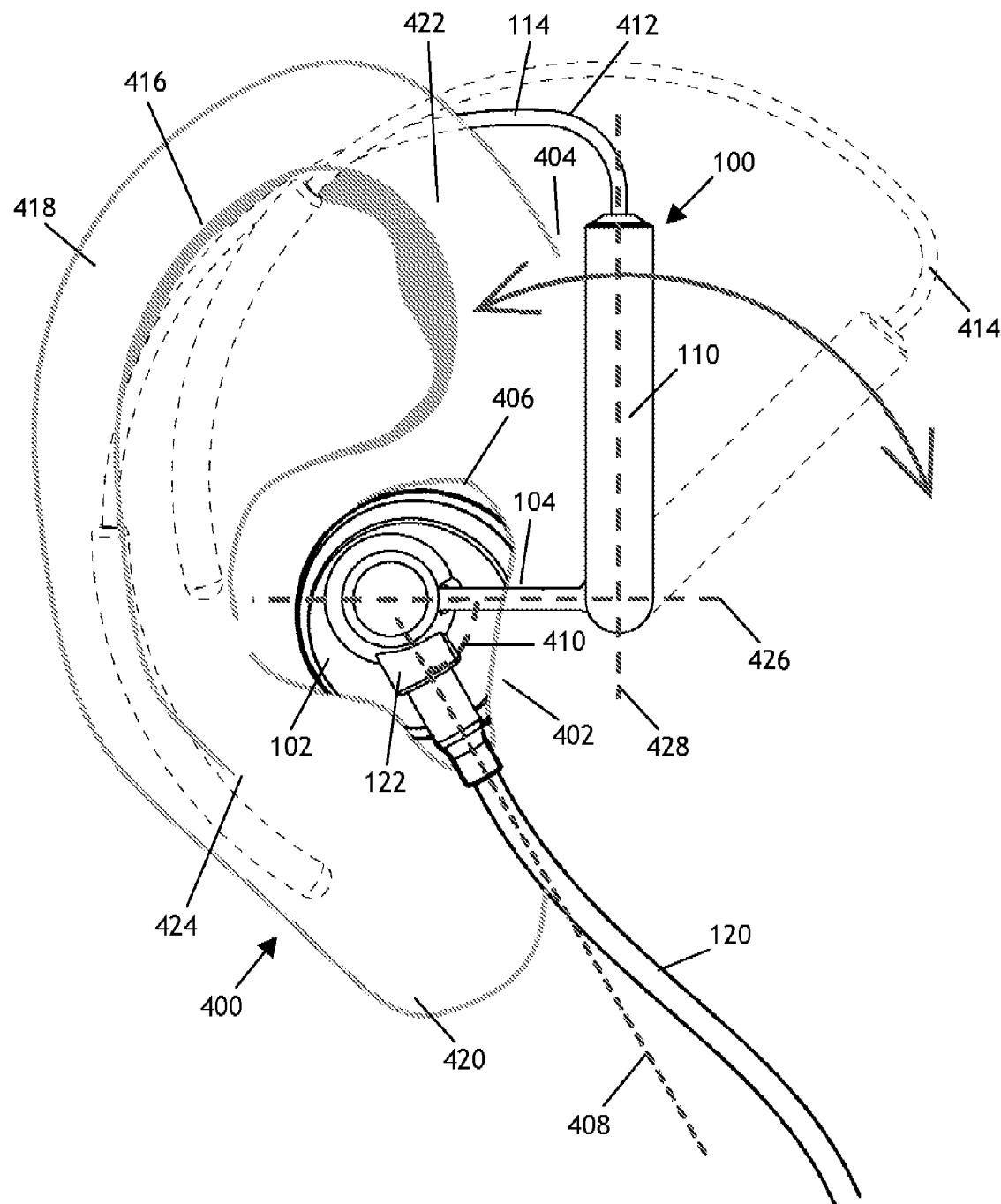


Fig. 96. Sound producing device (US2010061581)

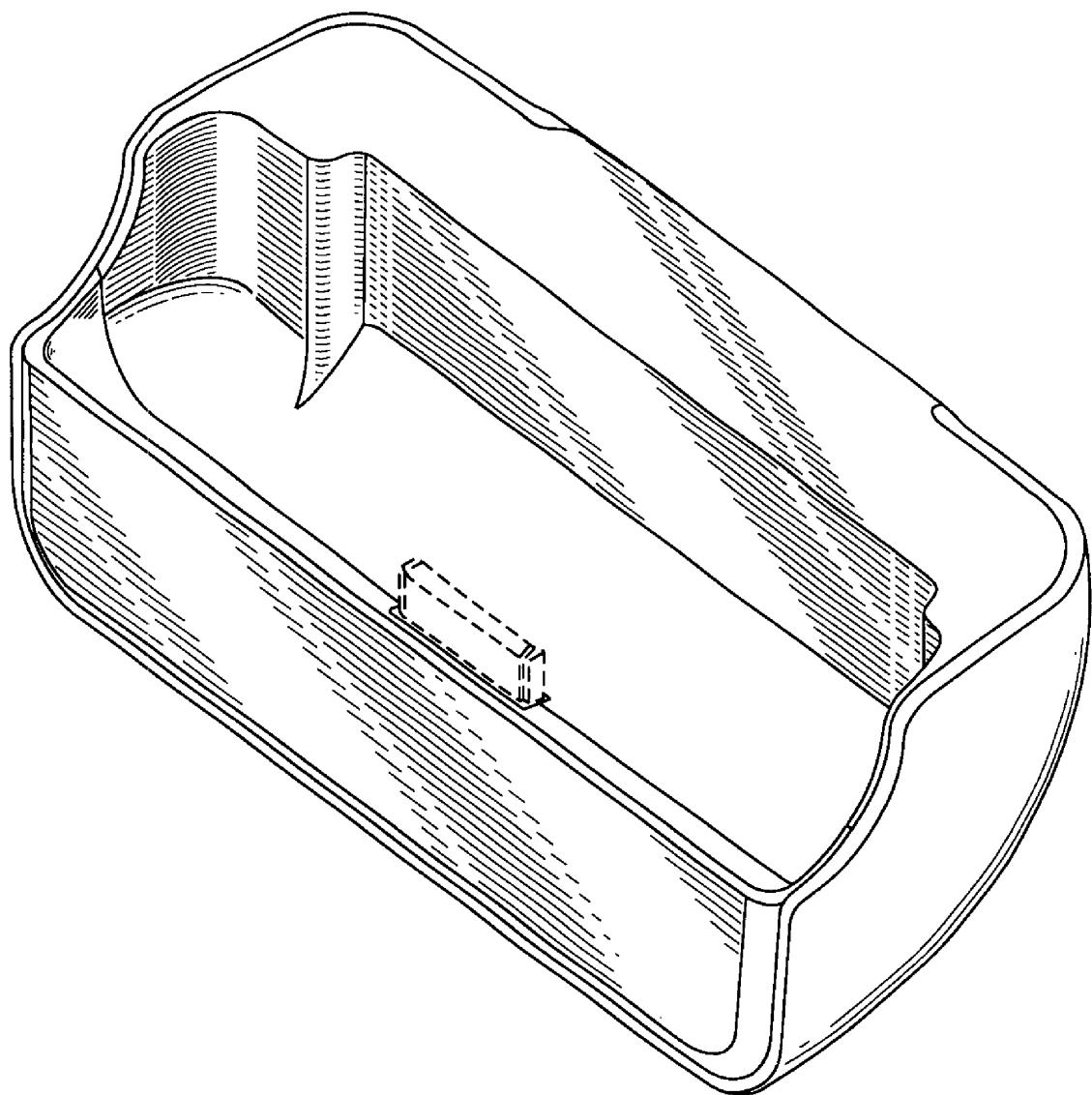


Fig. 97. Cradle for an electronic device (USD540327)

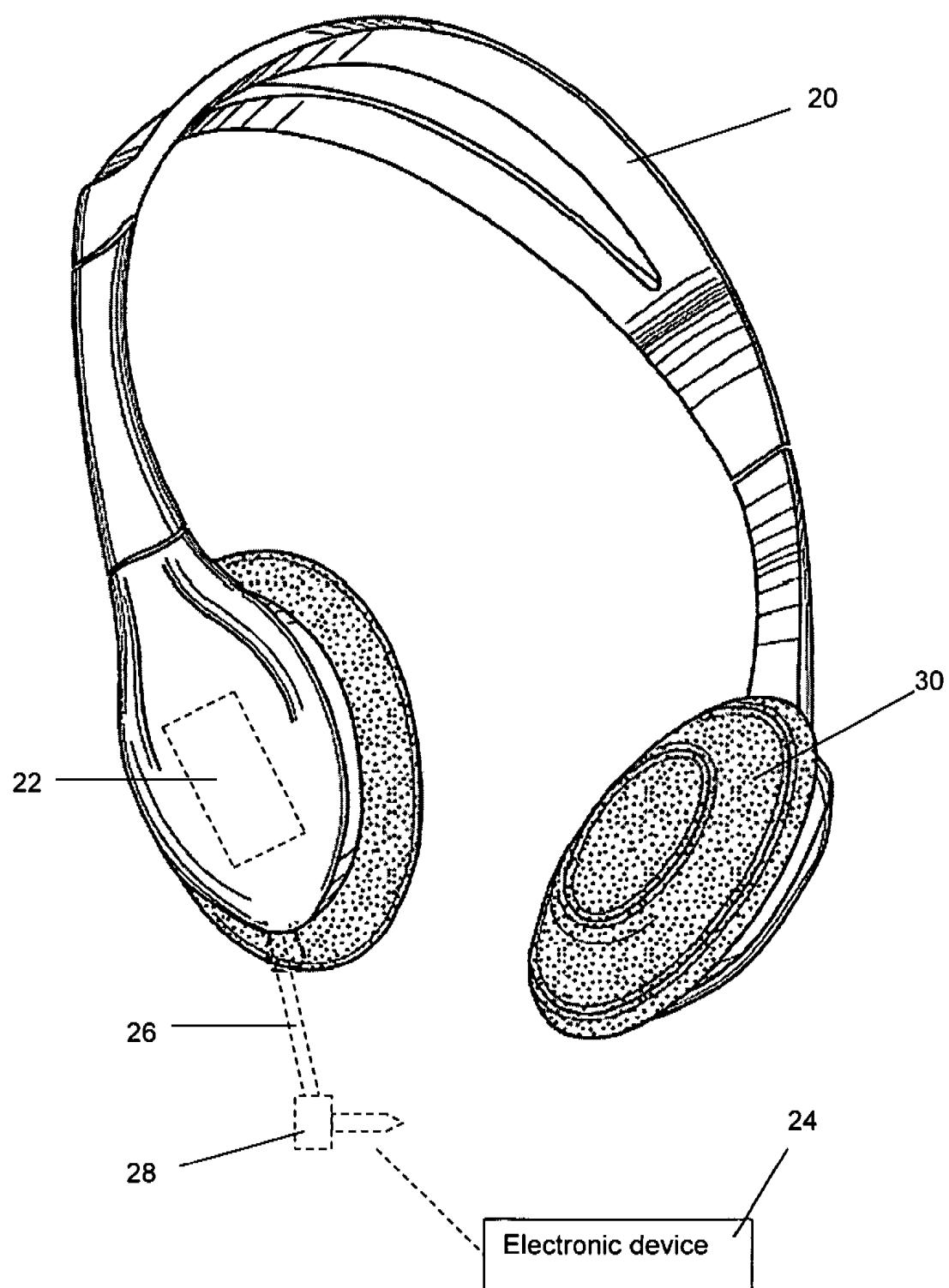


Fig. 98. Wireless apparatus with multiple power and input sources (US2007054705)

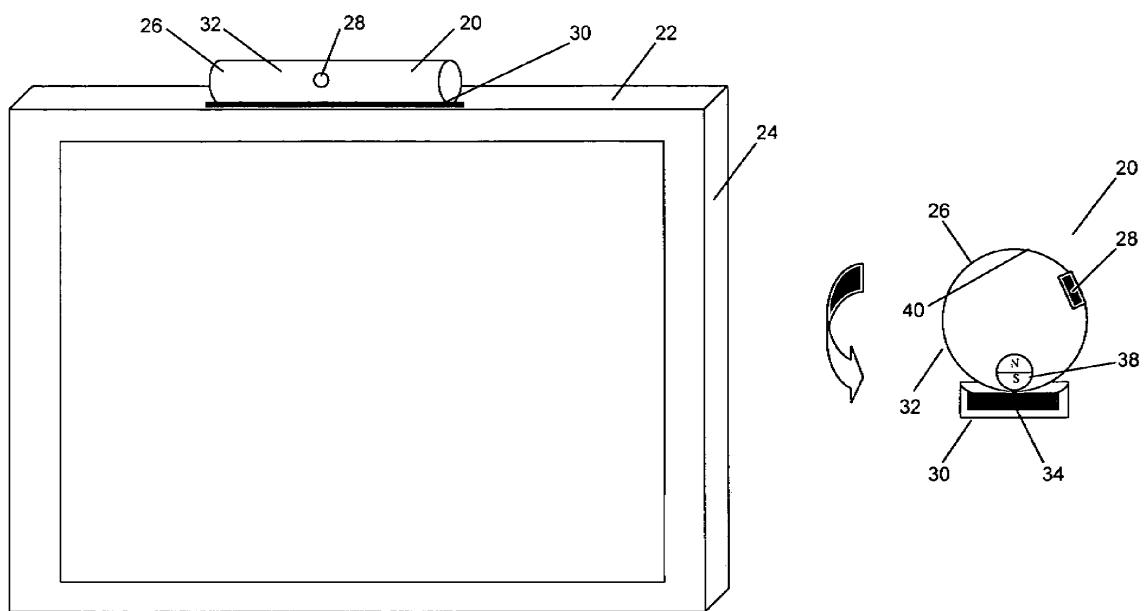


Fig. 99. Apparatus for secure placement on a flat surface and a method thereof (US7556228)

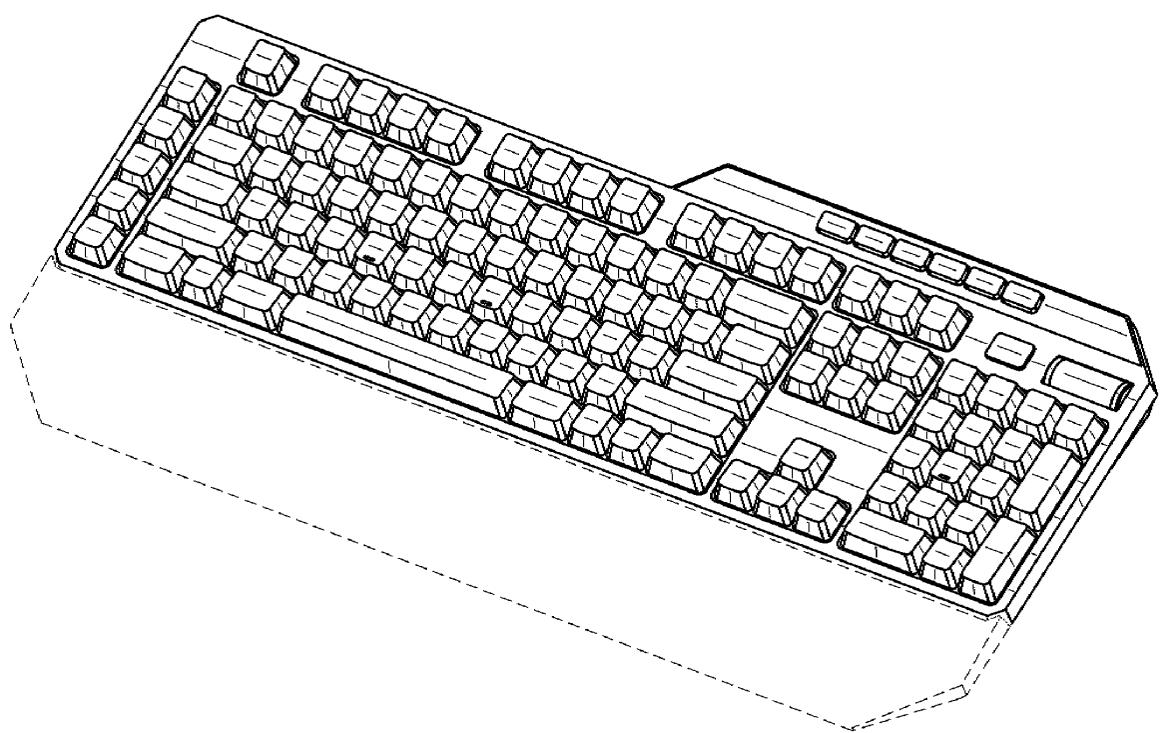


Fig. 100. Keyboard (USD820260)

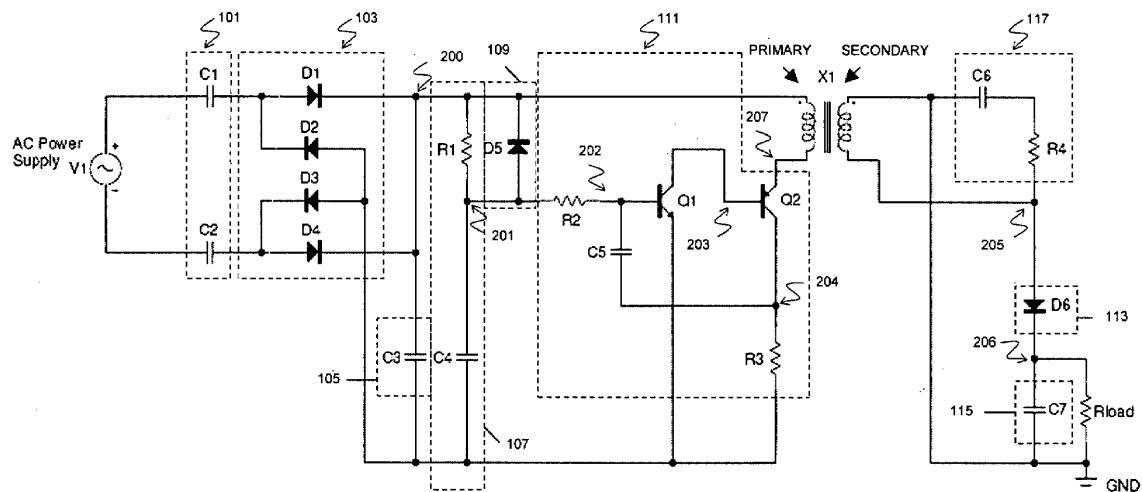


Fig. 101. Power supply (US2006209574)

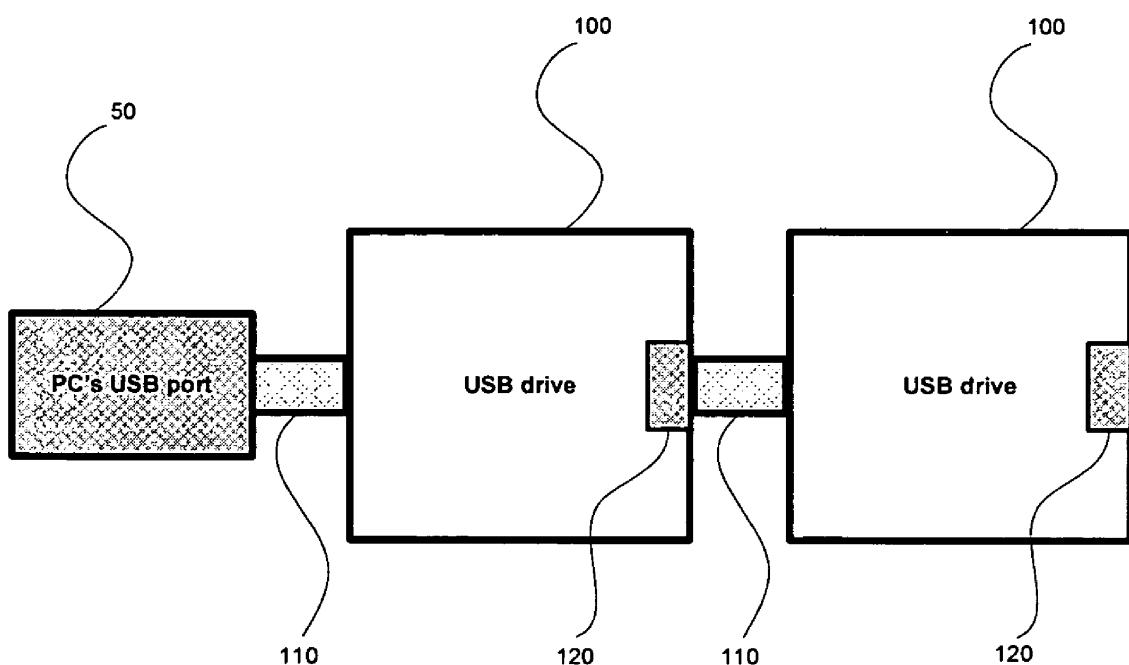


Fig. 102. Portable data storage device (US2006277334)

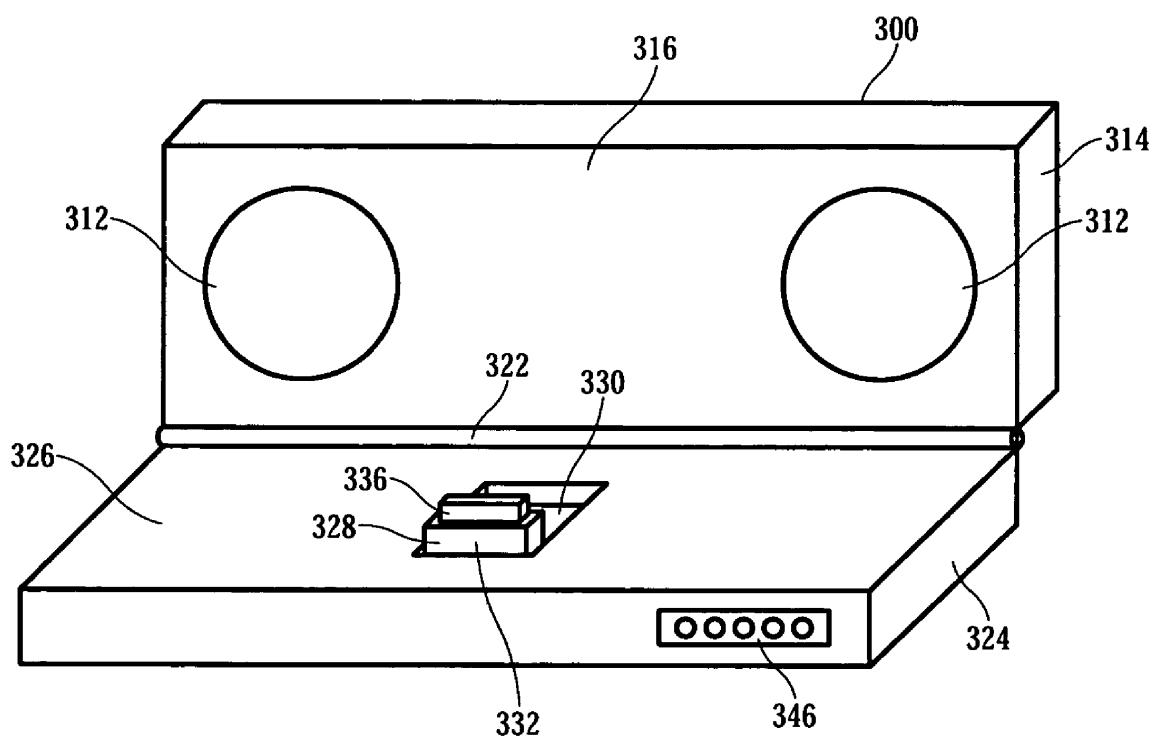


Fig. 103. Portable speakers (US8050441)

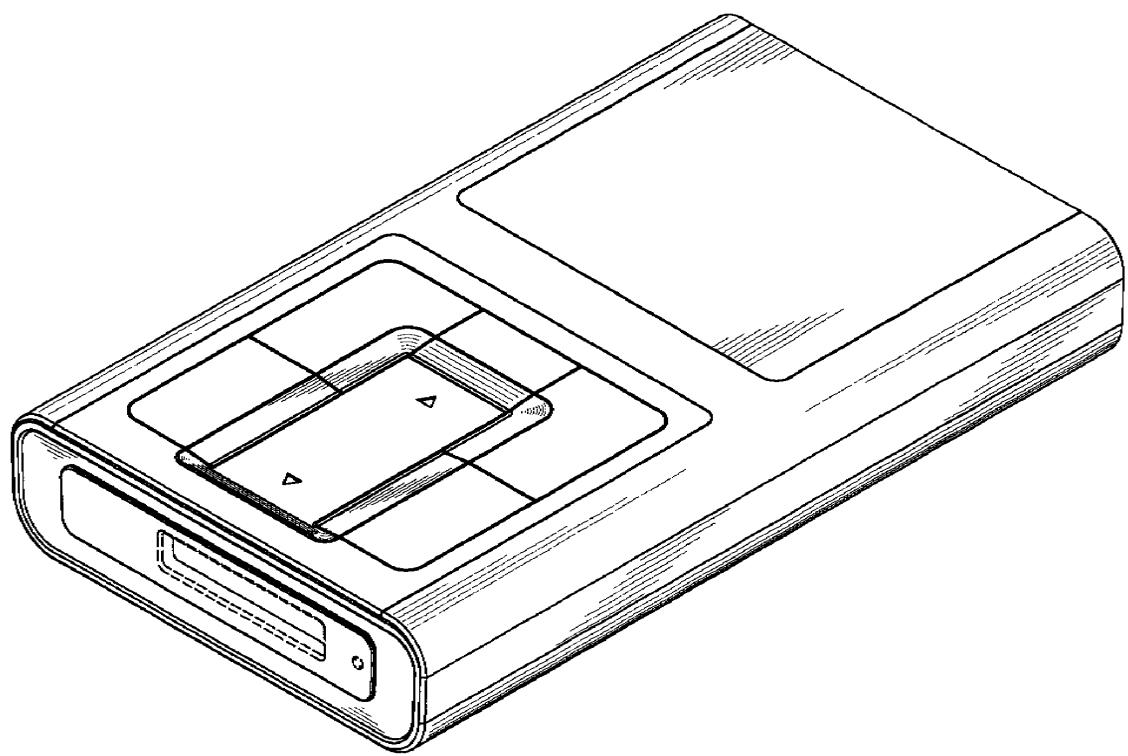


Fig. 104. Media player (USD529512)

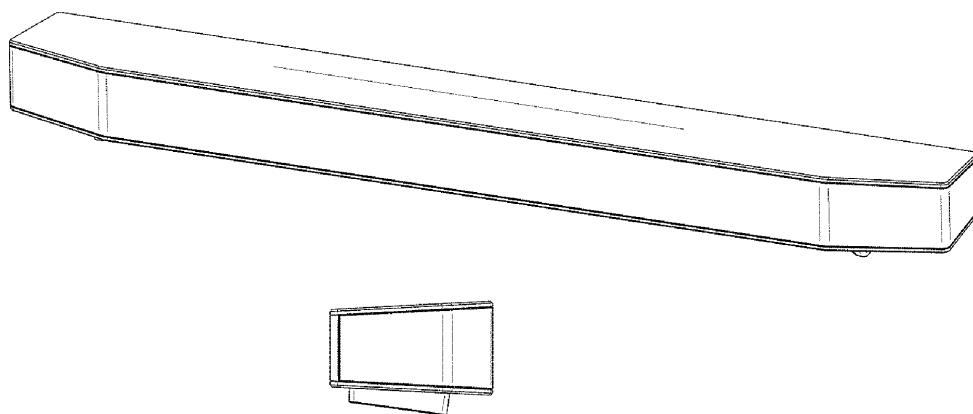


Fig. 105. Sound device (USD842273)

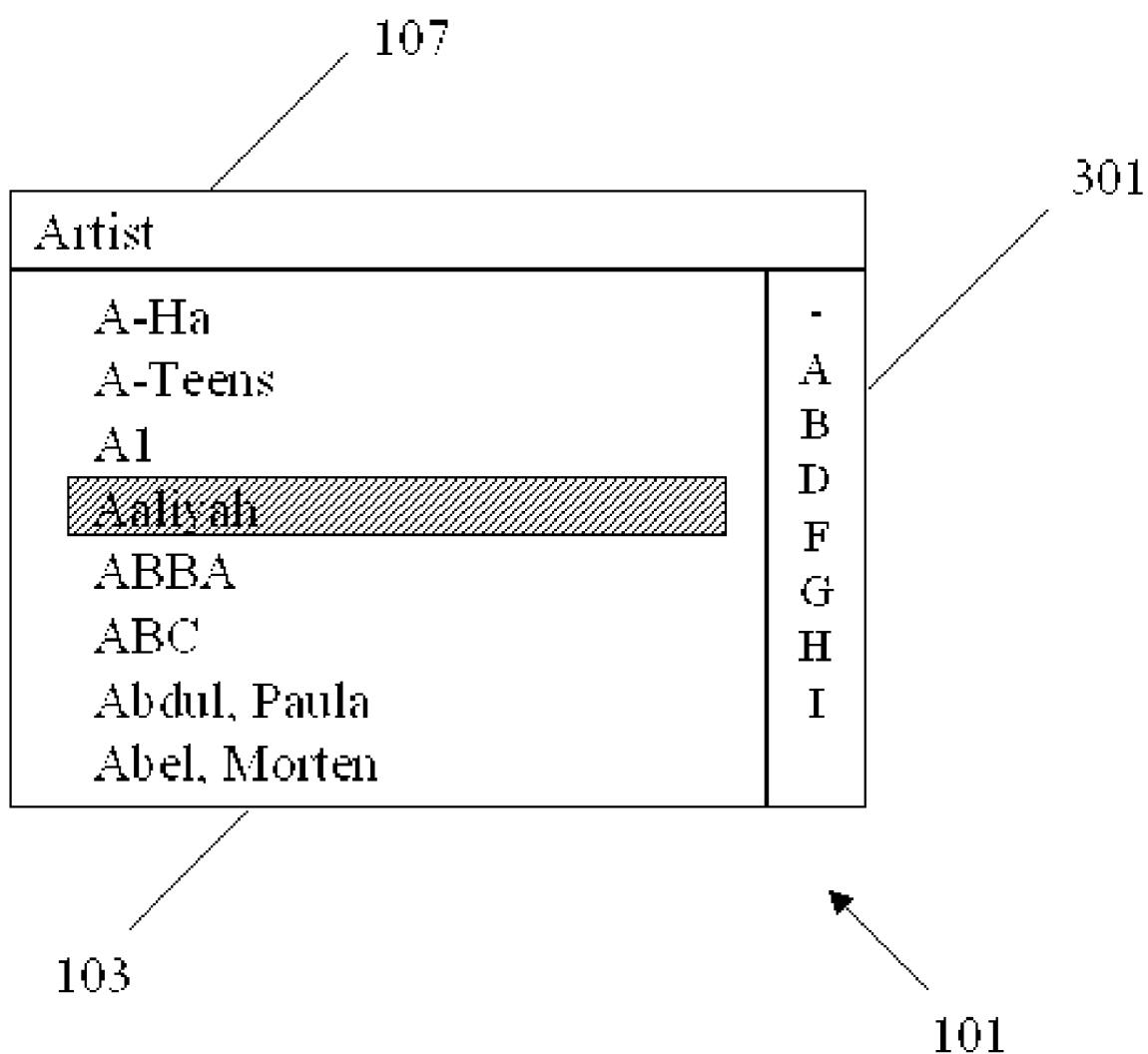


Fig. 106. Improvements in and Relating to Searching on a User Interface (US2006242599)

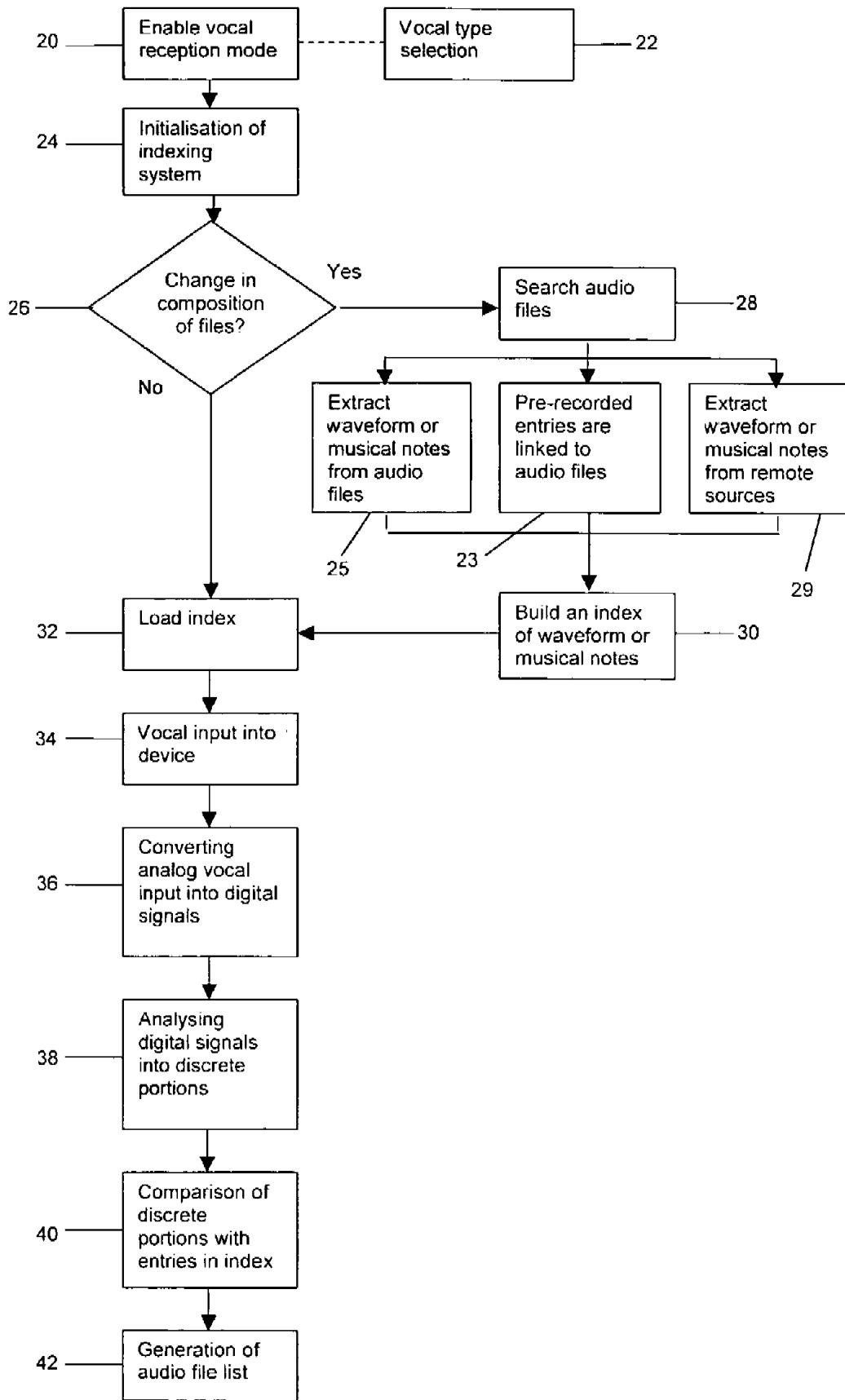


Fig. 107. Method and apparatus for accessing an audio file from a collection of audio files using tonal matching (US2007276668)

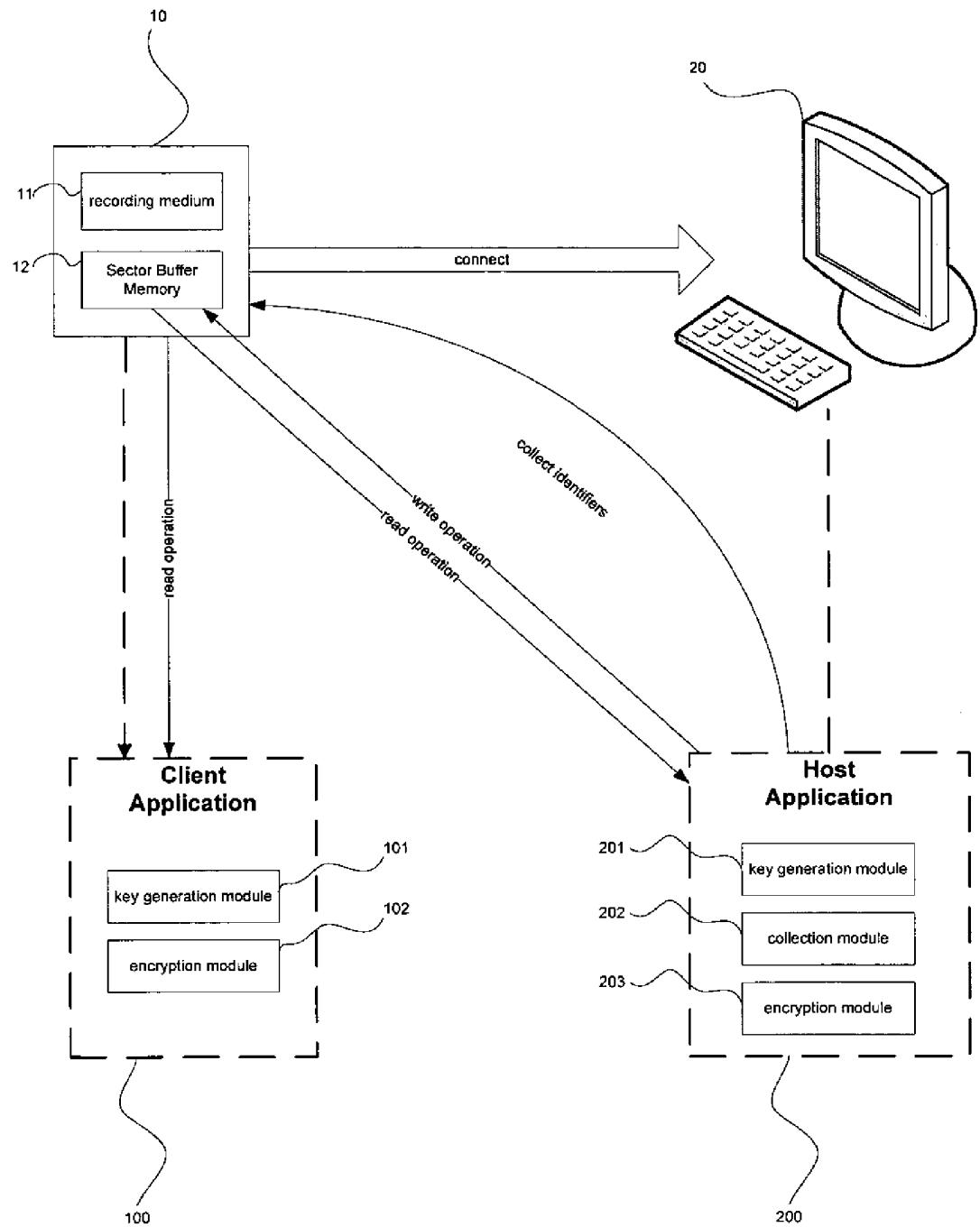


Fig. 108. Controlling distribution of protected content (US2007014403)

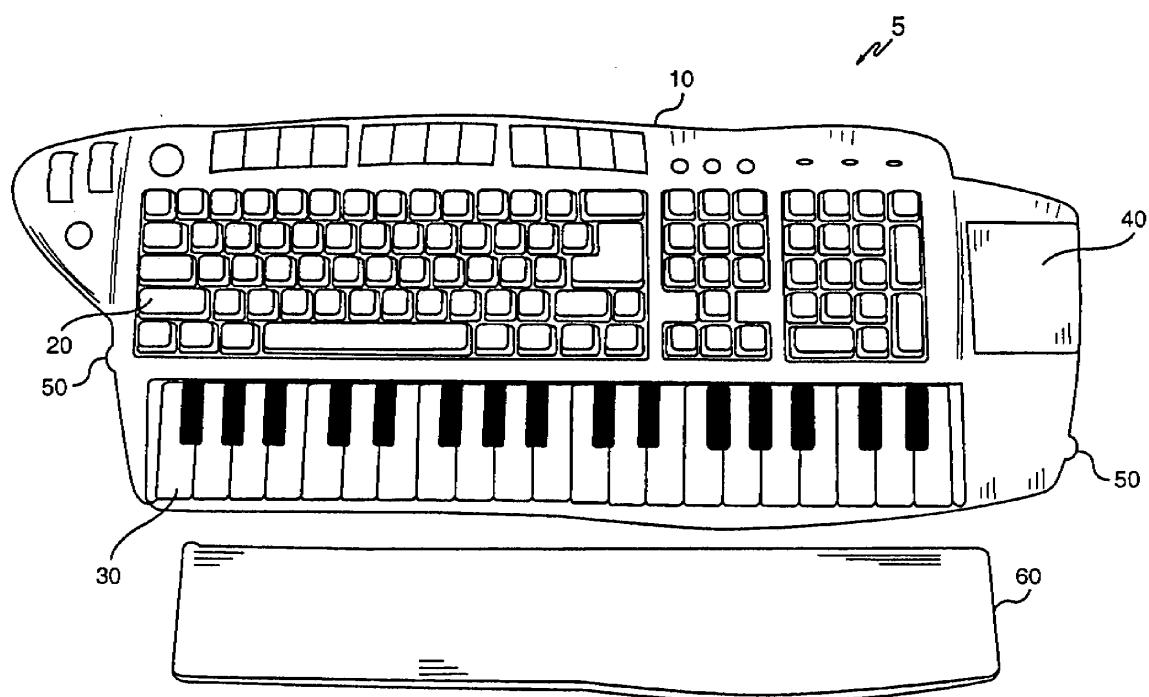


Fig. 109. Multimedia keyboard (US2005030283)

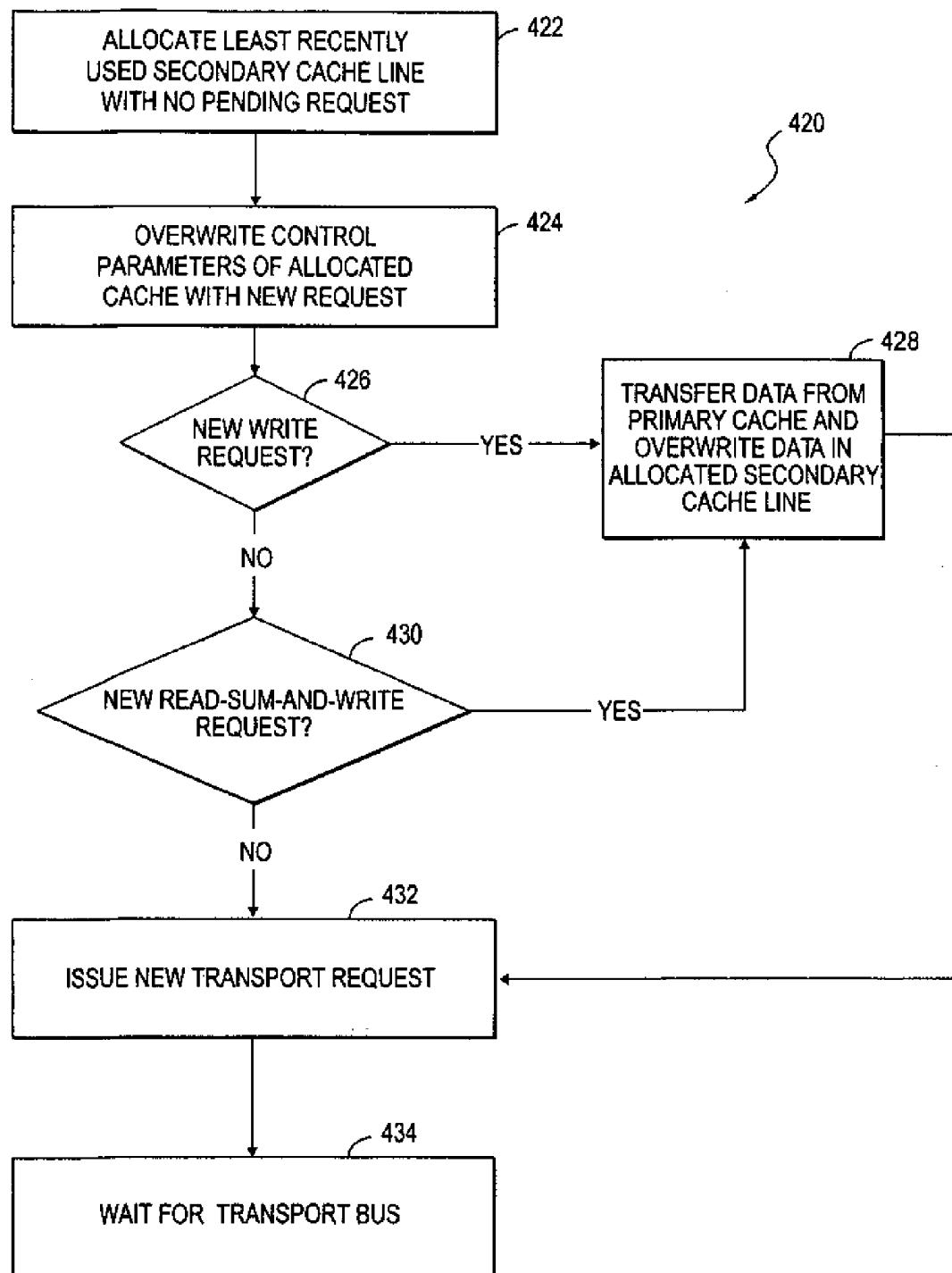


Fig. 110. Method and circuit to implement digital delay lines (US2007162706)

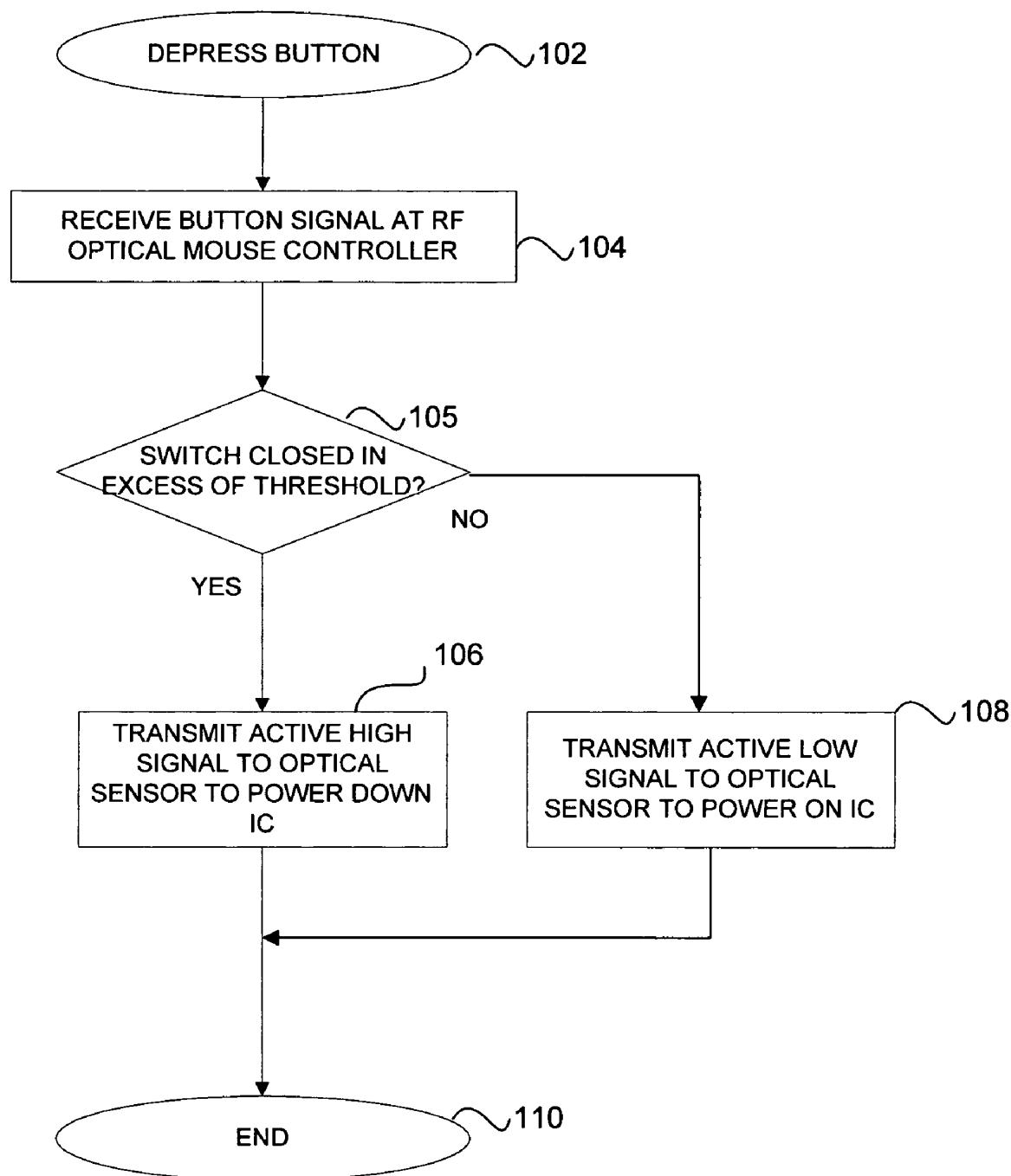


Fig. 111. Optical wireless mouse power saving feature (US2006114231)

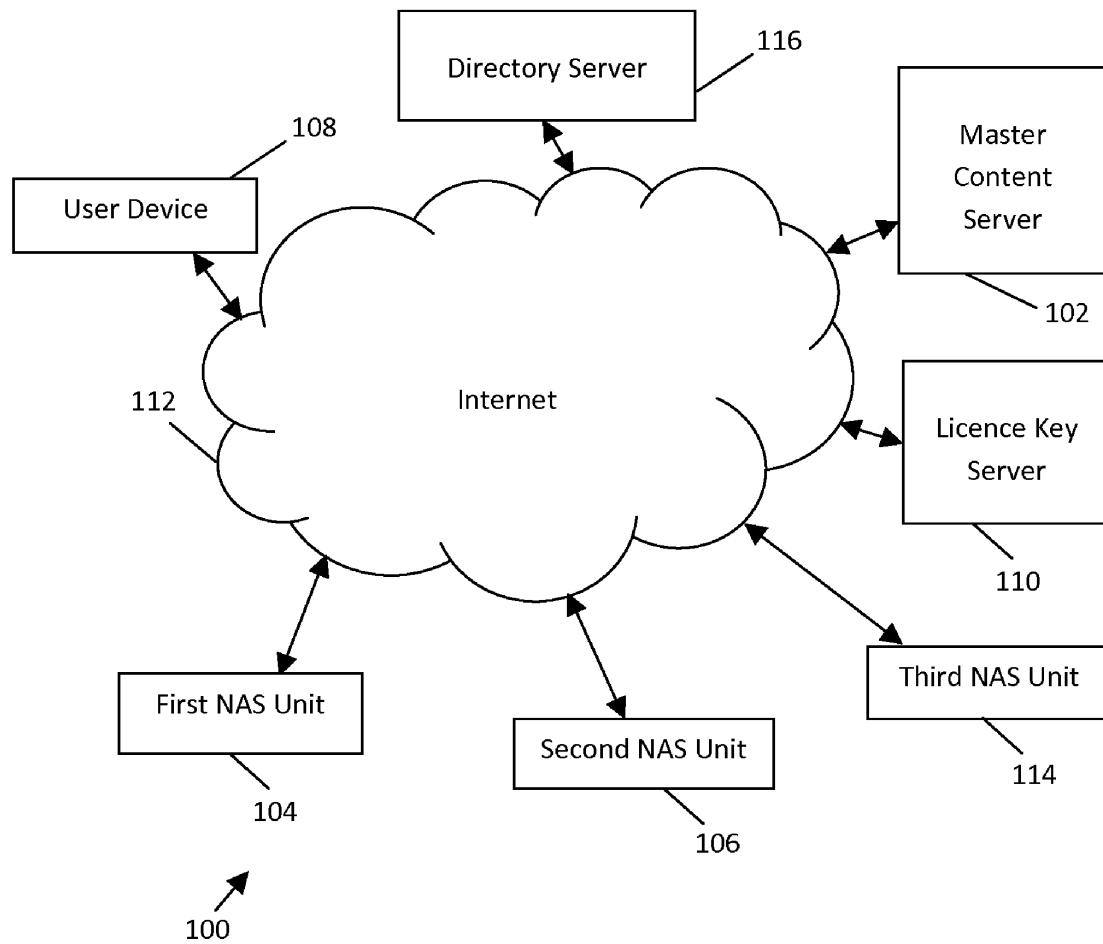


Fig. 112. Method and system for file distribution (US2010235878)

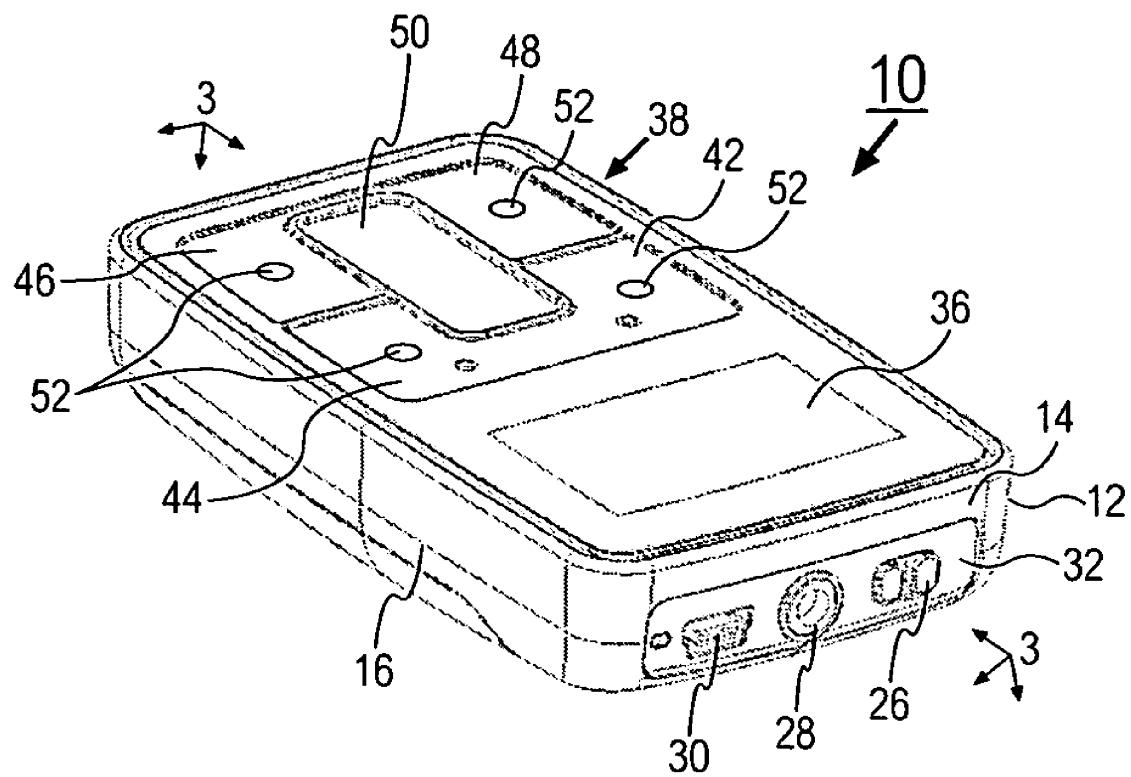


Fig. 113. Portable device with illumination and method therefor (US2006077067)

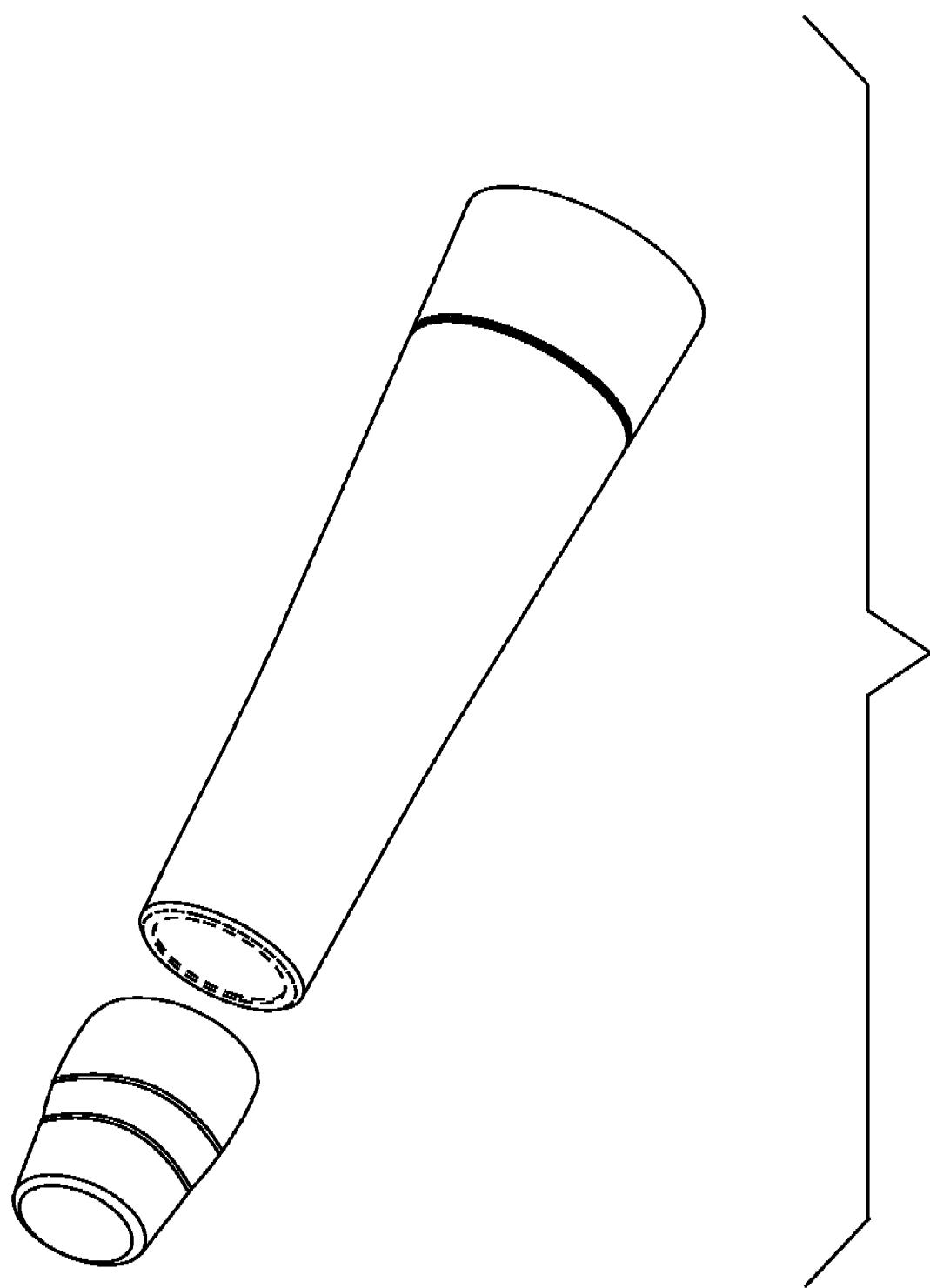


Fig. 114. Microphone sleeve (USD678253)

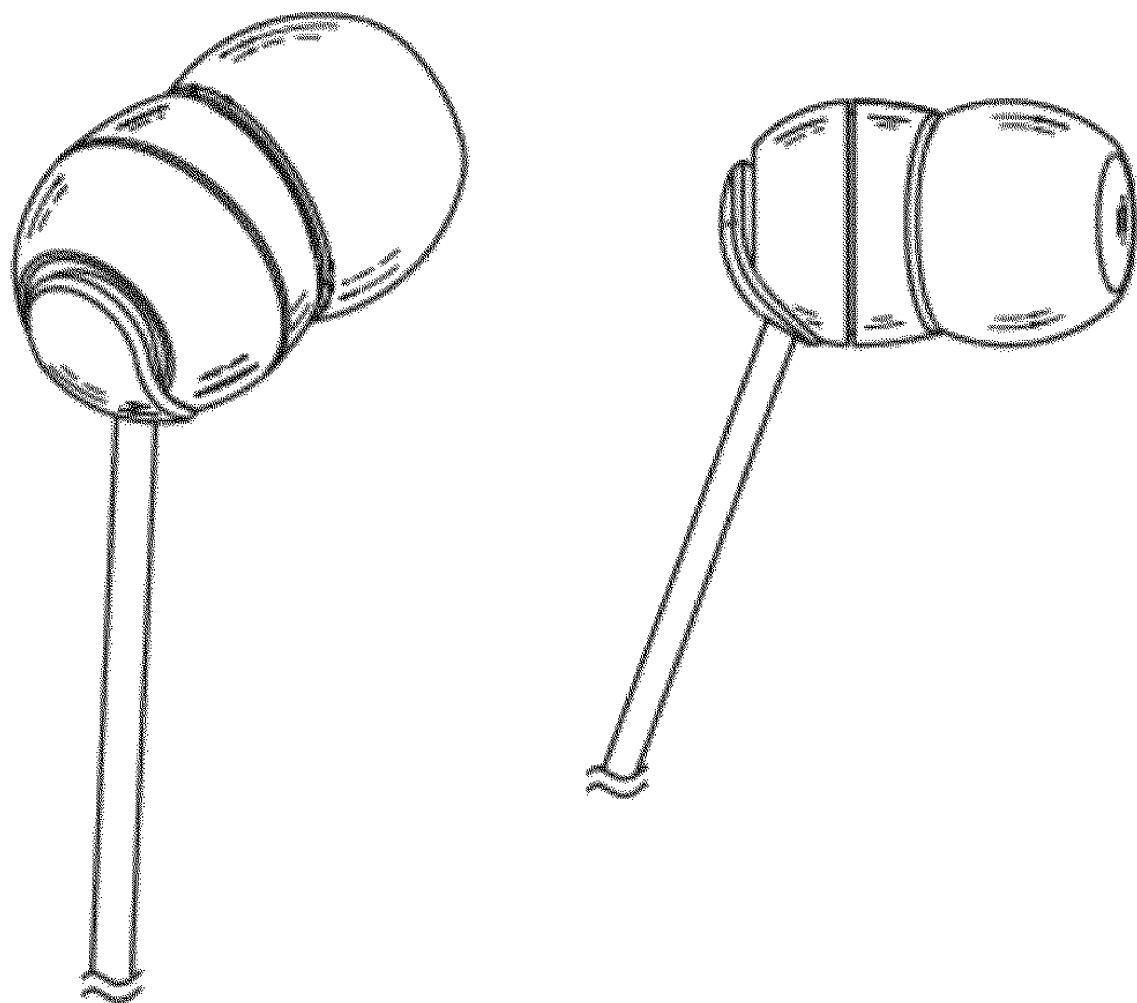


Fig. 115. Earphone (USD664951)

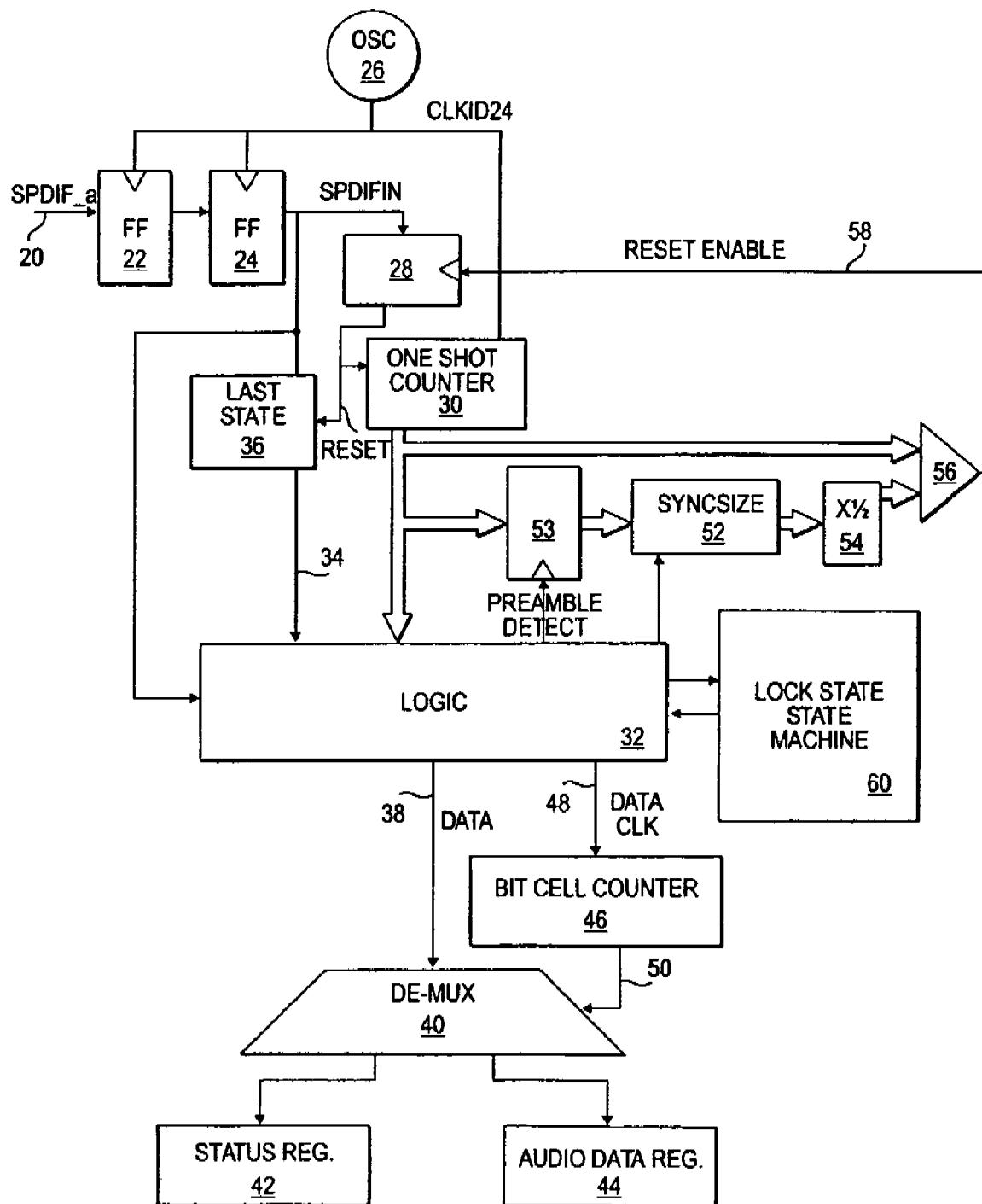


Fig. 116. Digital audio data receiver without synchronized clock generator (US7668609)

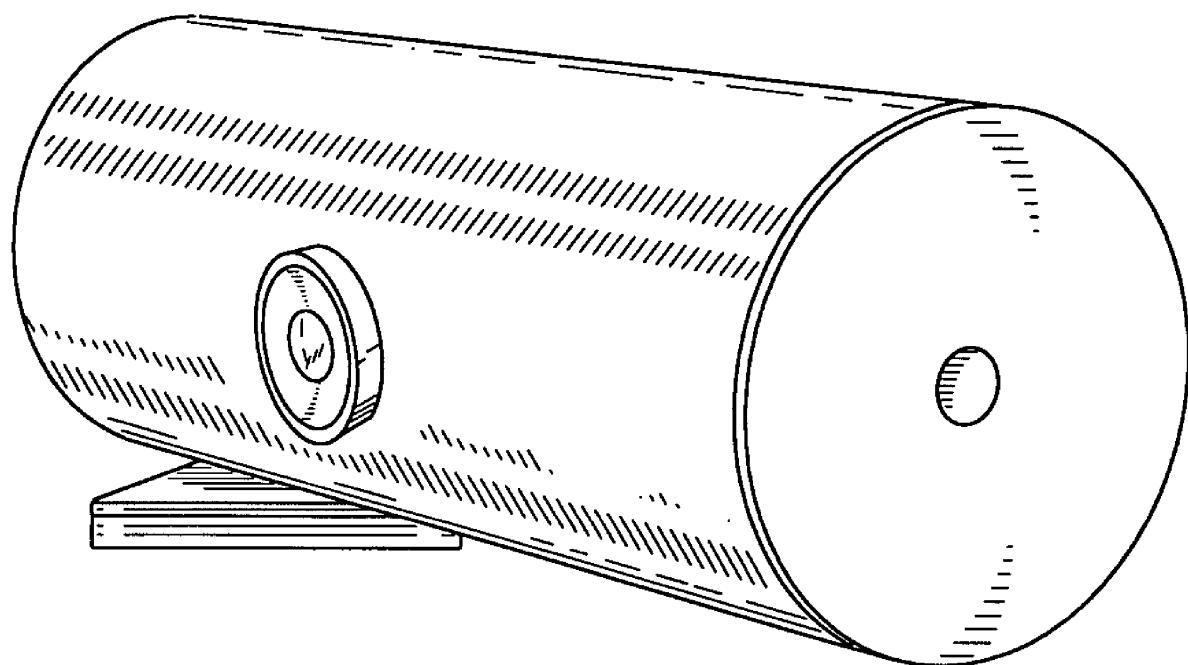


Fig. 117. Camera (USD586836)

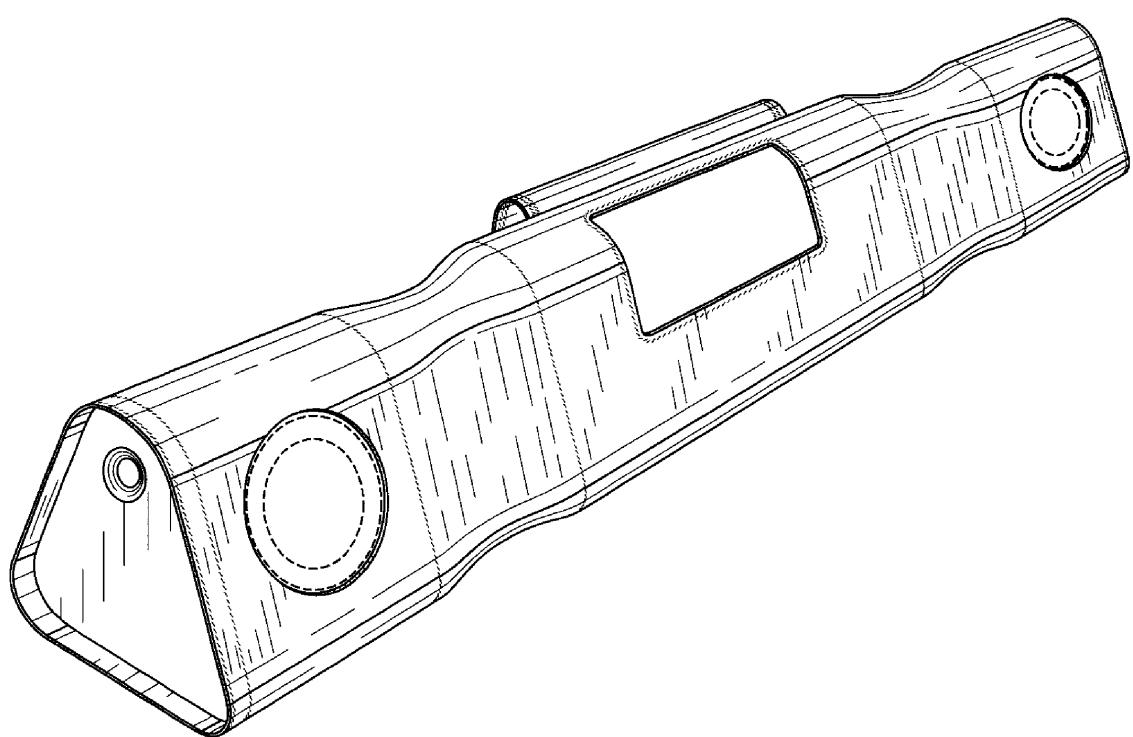


Fig. 118. Speaker (USD535976)

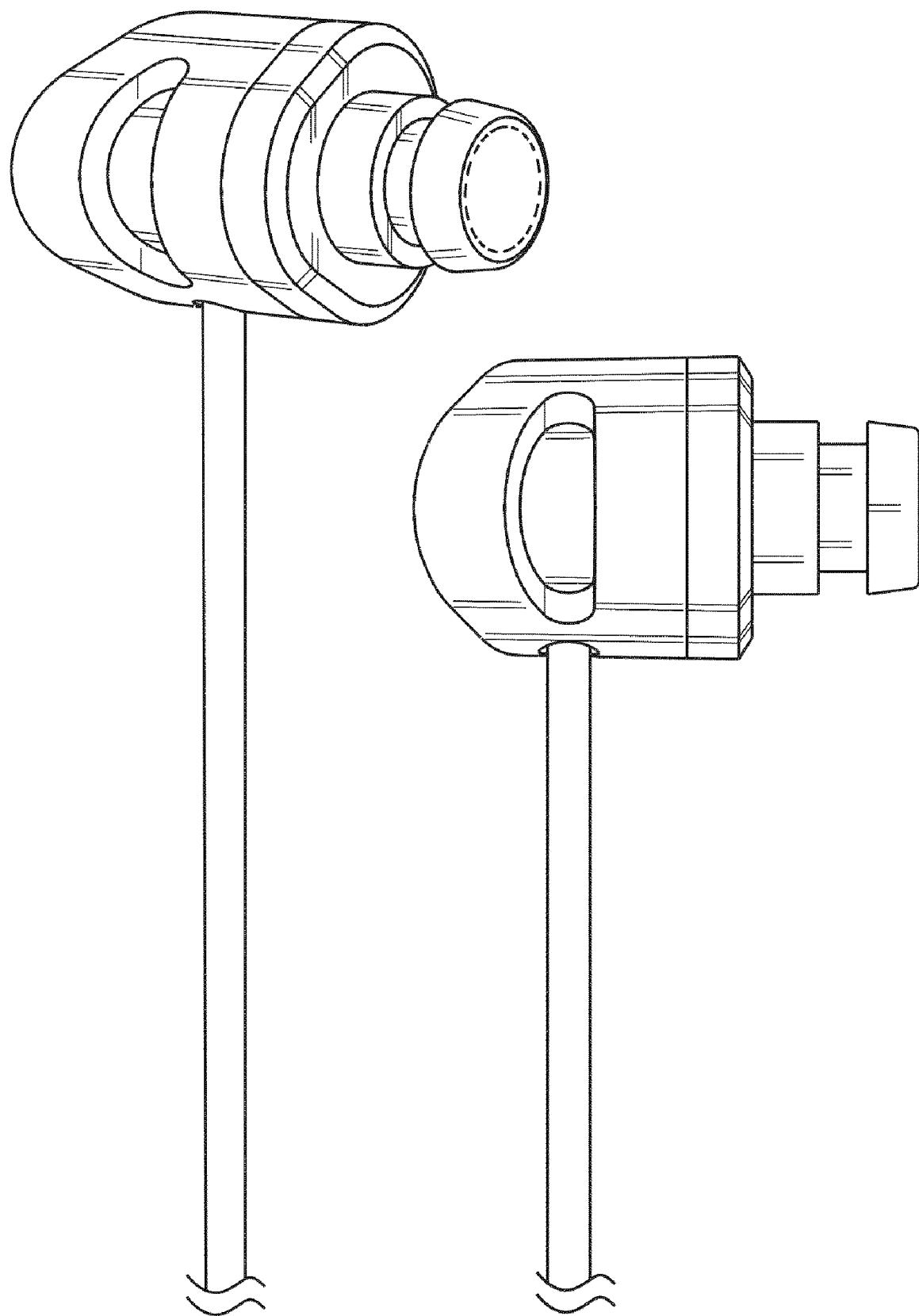


Fig. 119. Earphone (USD708599)

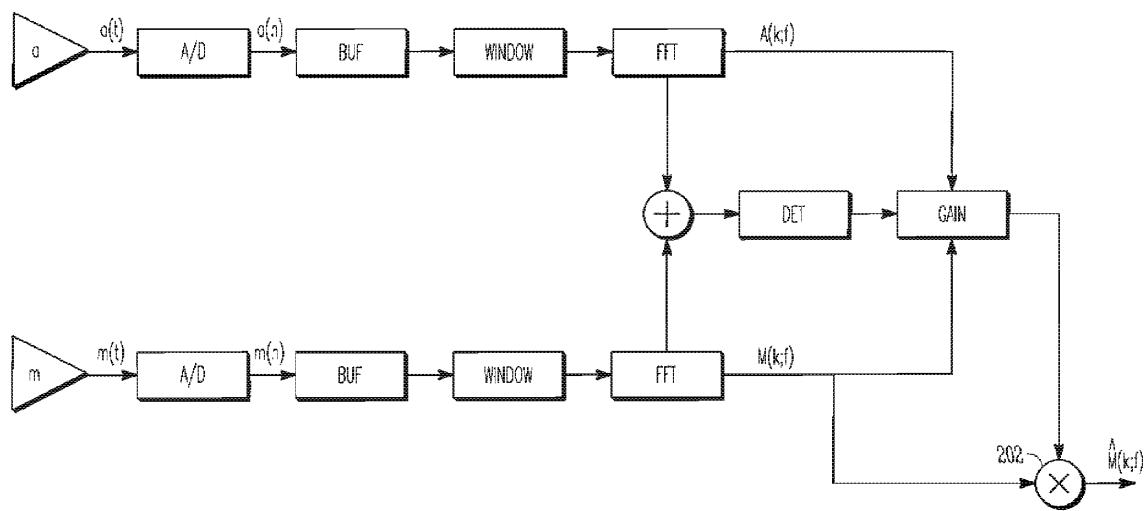


Fig. 120. Frequency domain noise attenuation utilizing two transducers (US2019096421)

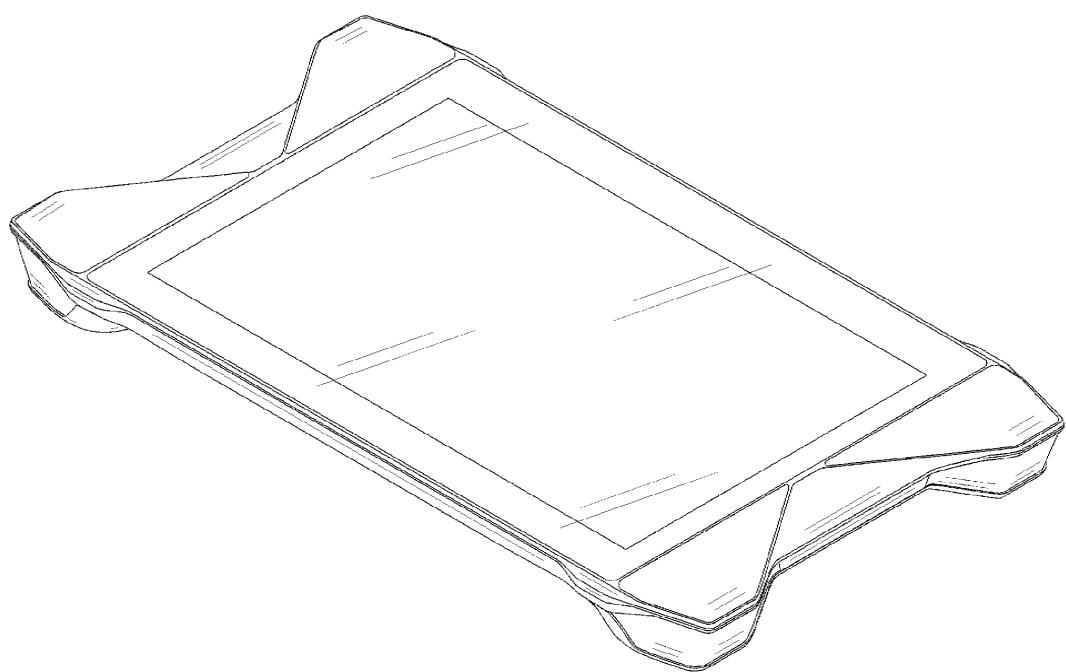


Fig. 121. Electronic reader device (USD729244)

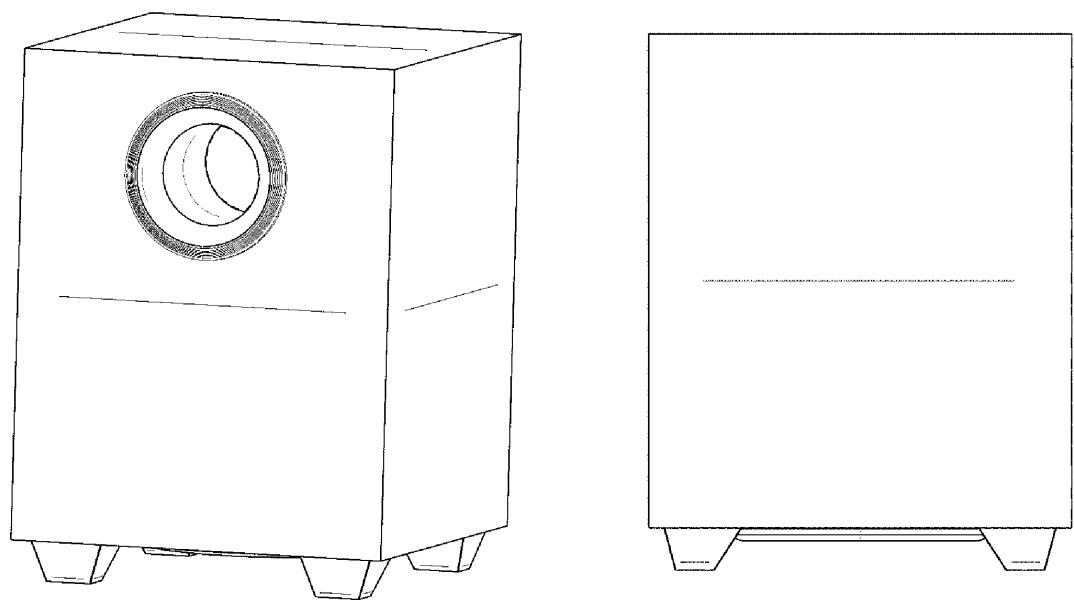


Fig. 122. Sound device (USD842274)

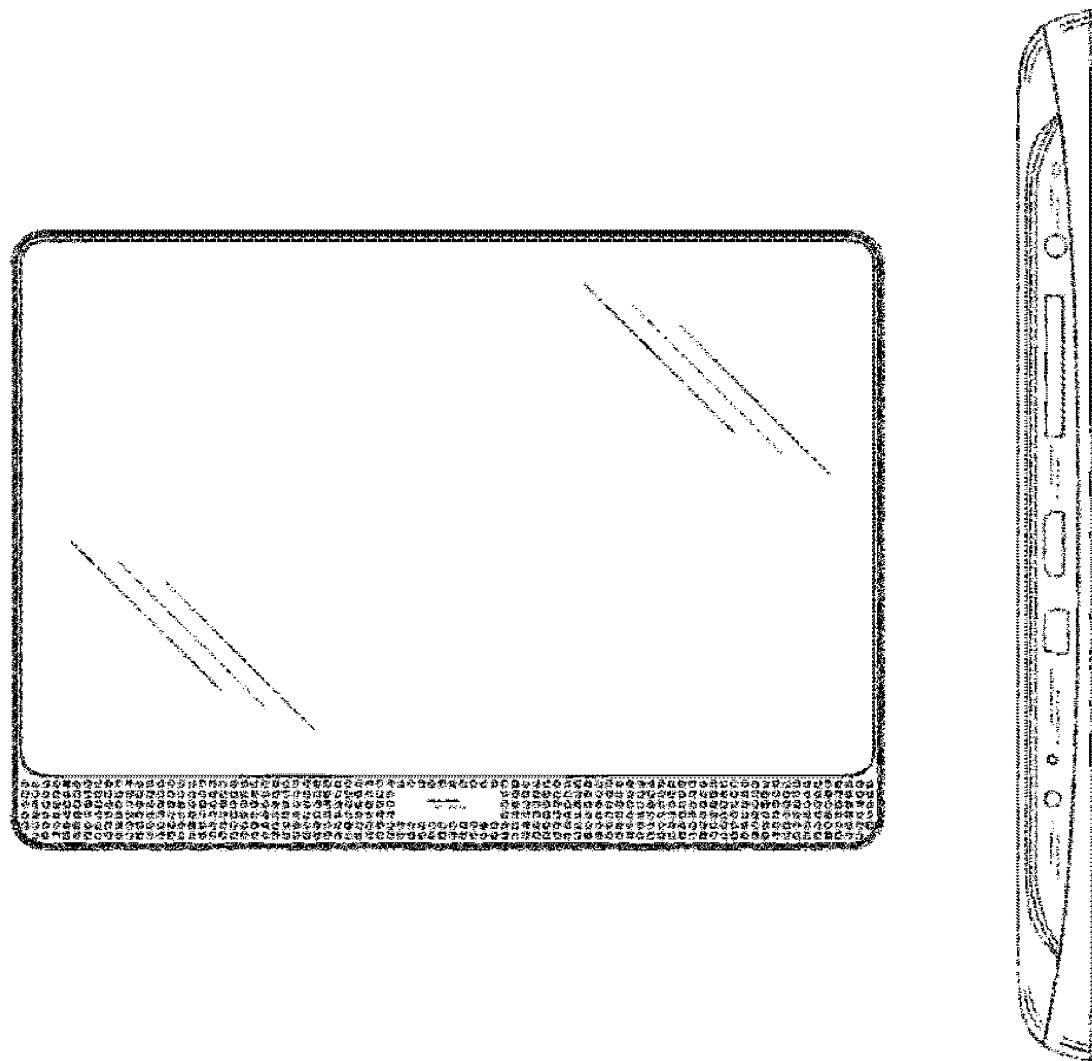


Fig. 123. Electronic reader device (USD675614)

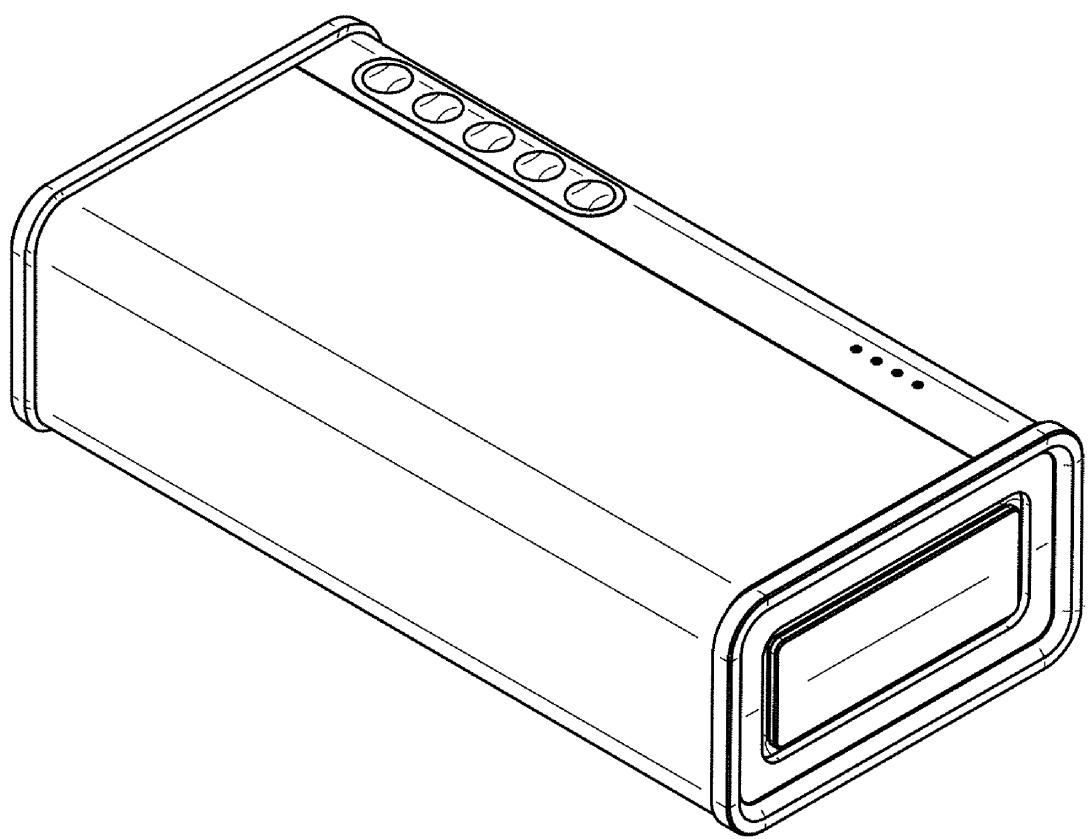


Fig. 124. Sound device (USD833415)

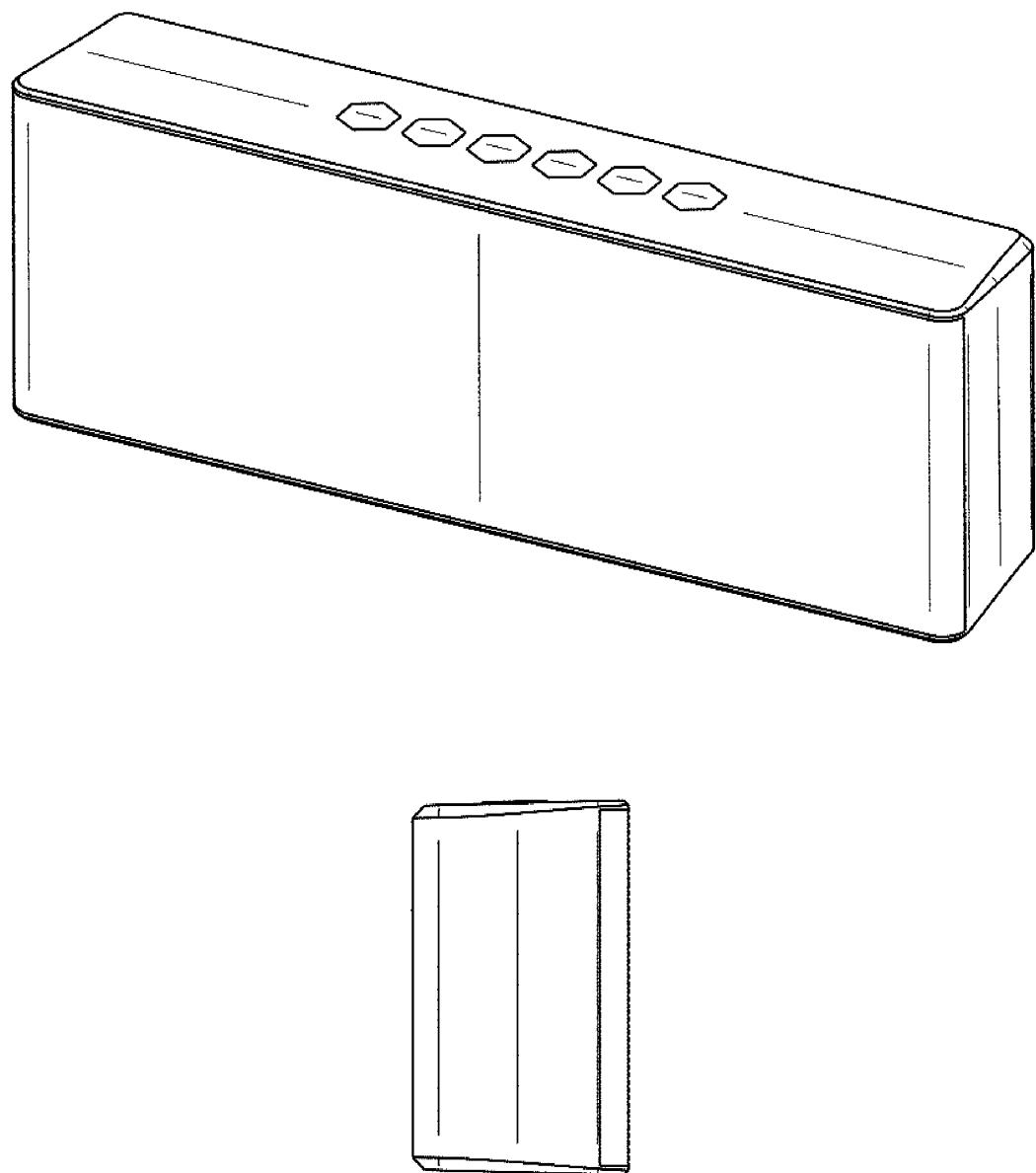


Fig. 125. Sound device (USD834559)

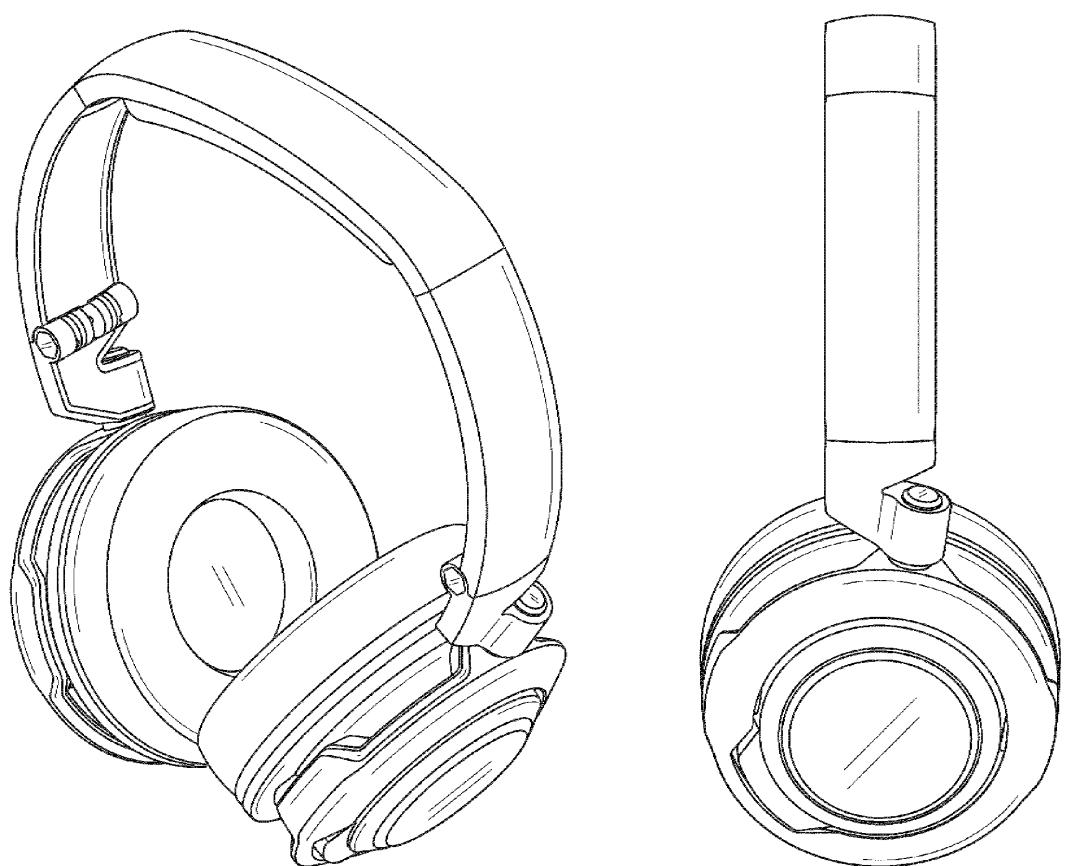


Fig. 126. Headphone (USD719134)

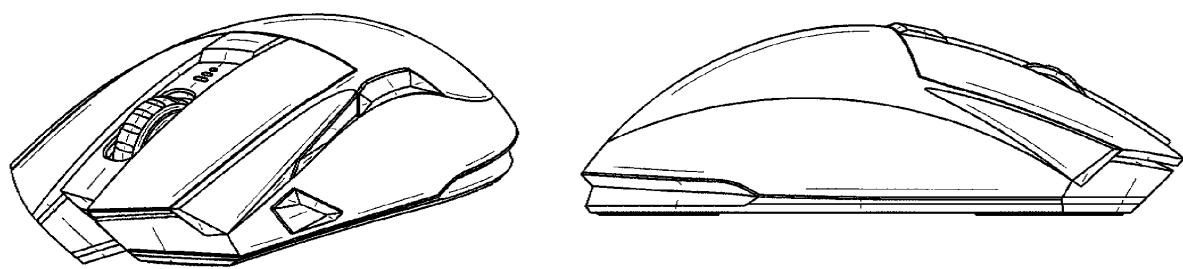


Fig. 127. Mouse for computers (USD823305)

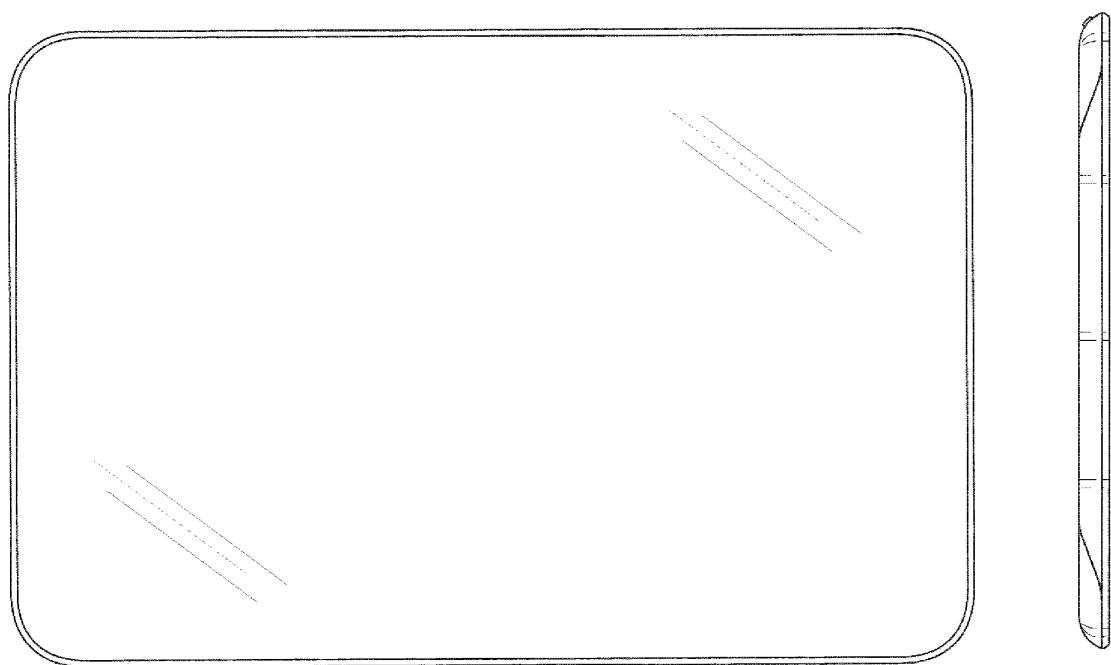


Fig. 128. Electronic reader device (USD702230)

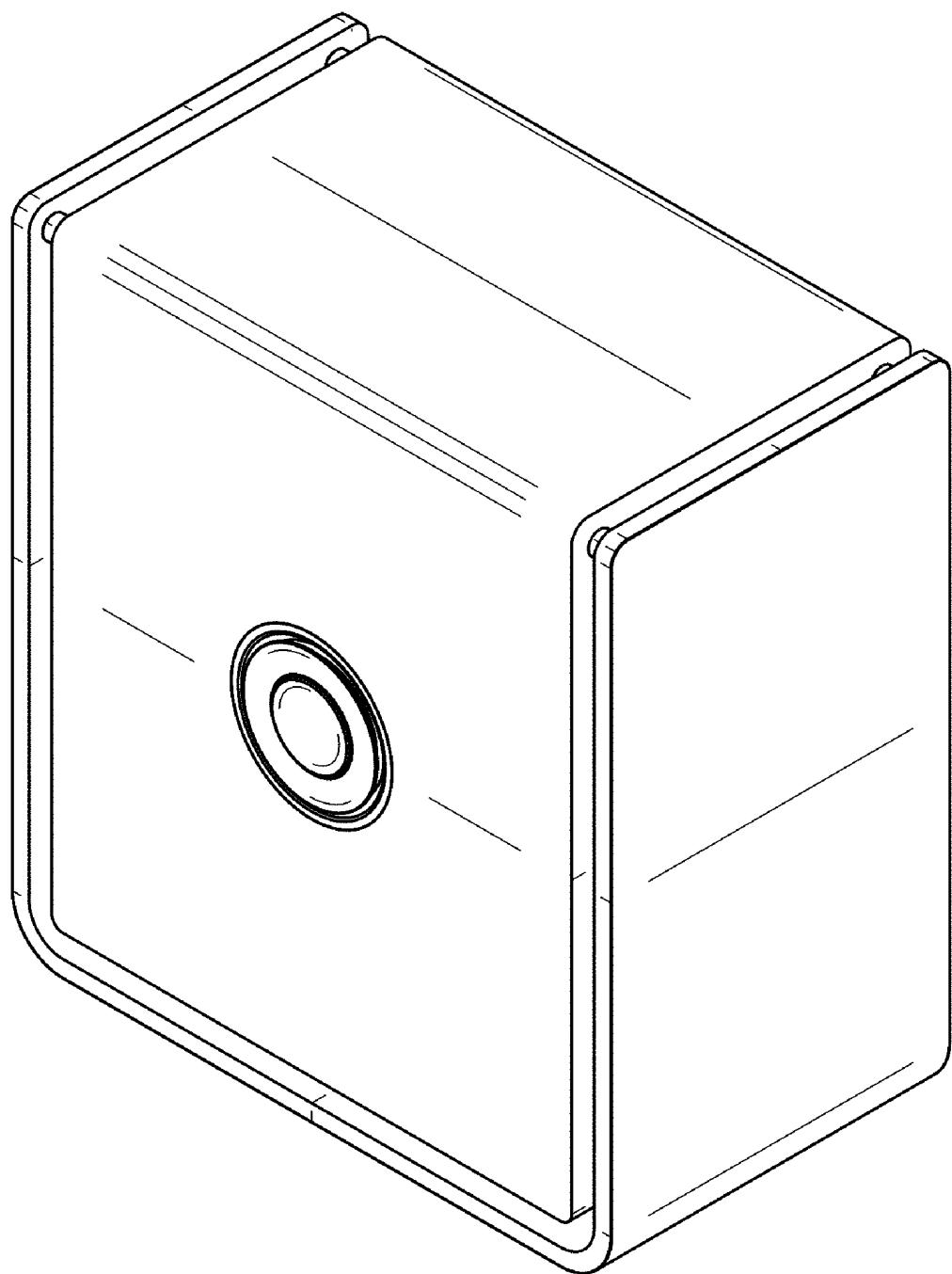


Fig. 129. Sound device (USD818988)

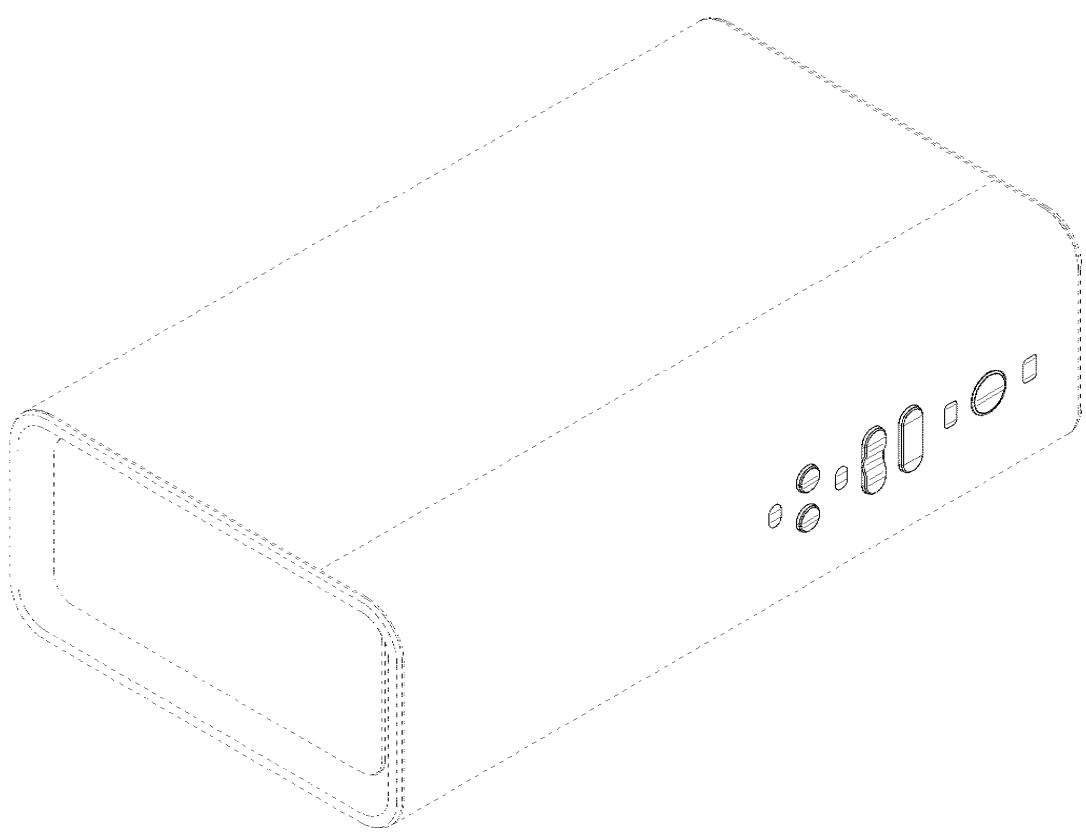


Fig. 130. Button layout for an electronic device (USD766866)

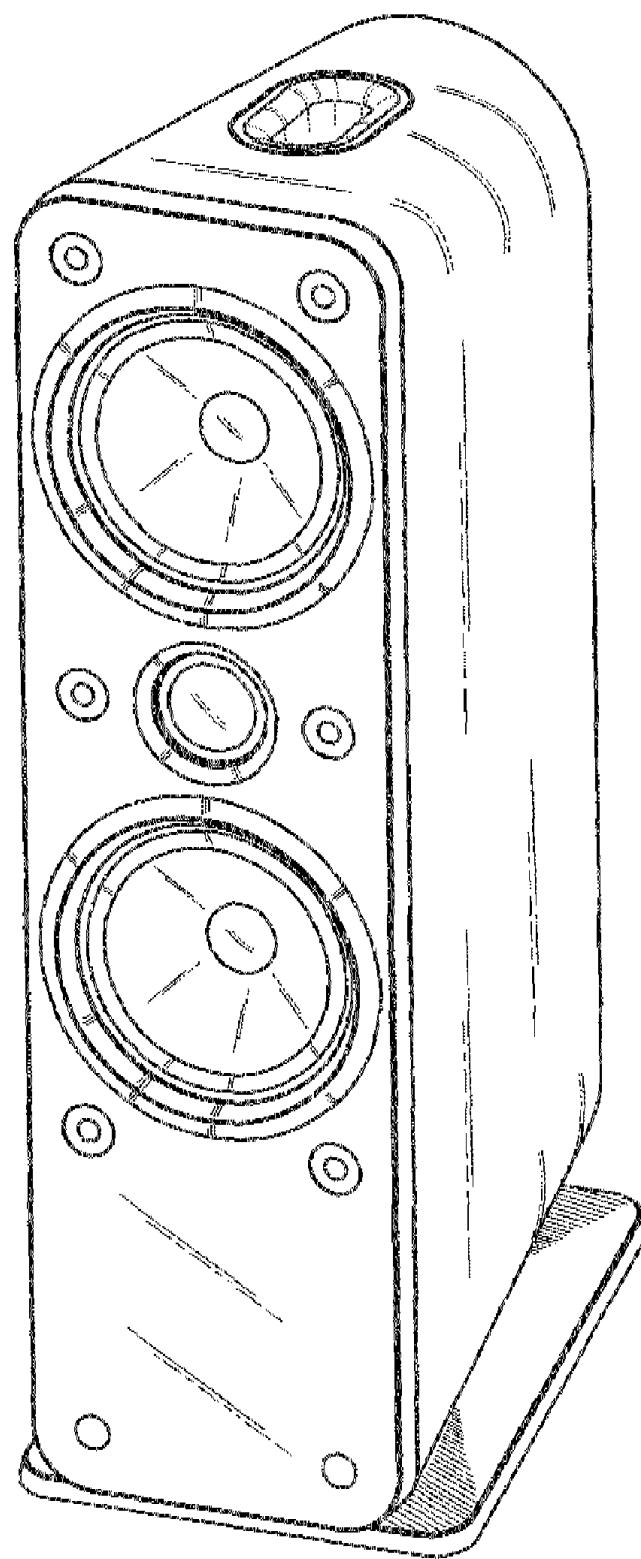


Fig. 131. Loudspeaker (USD597531)

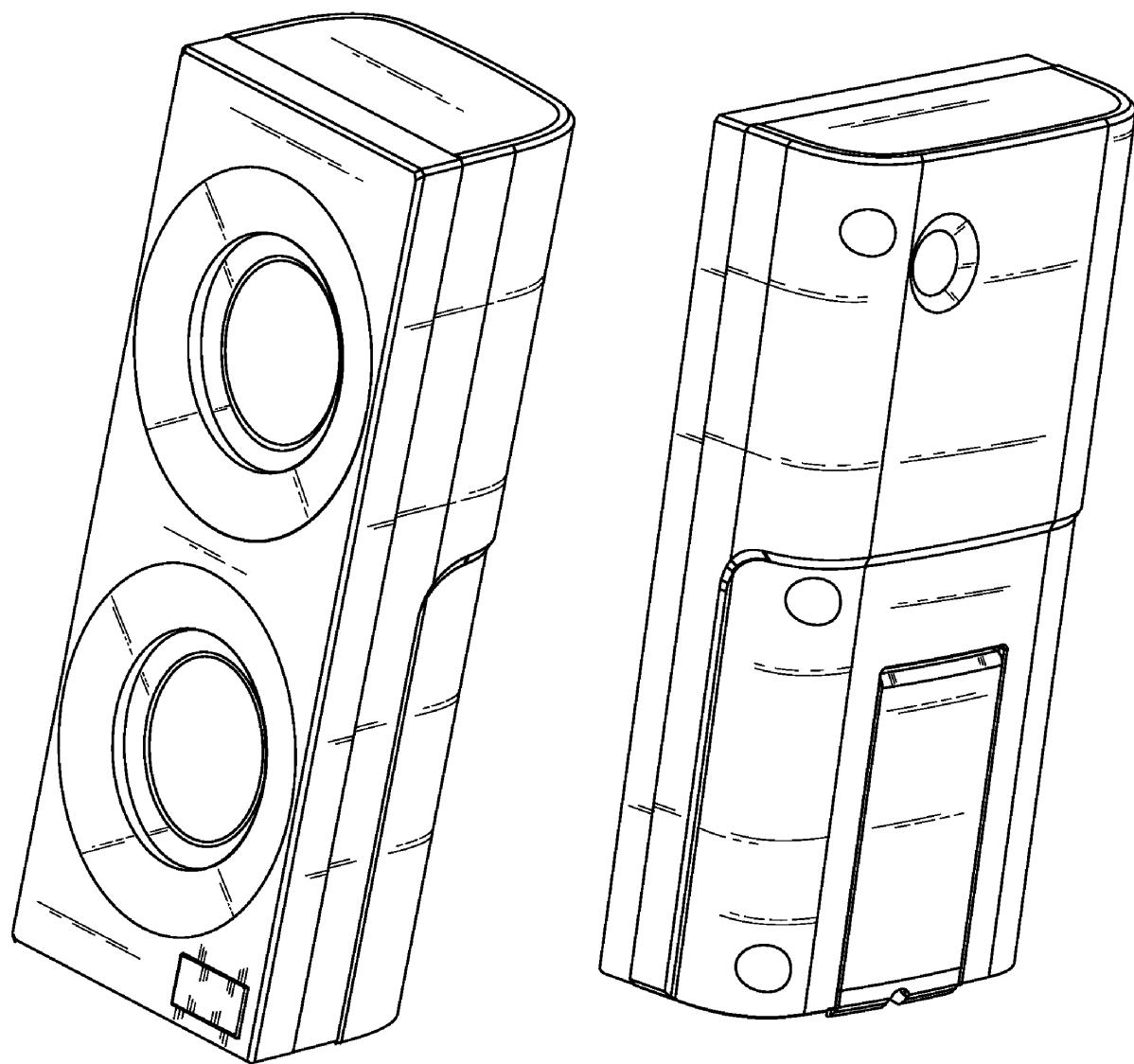


Fig. 132. Loudspeaker (USD588107)

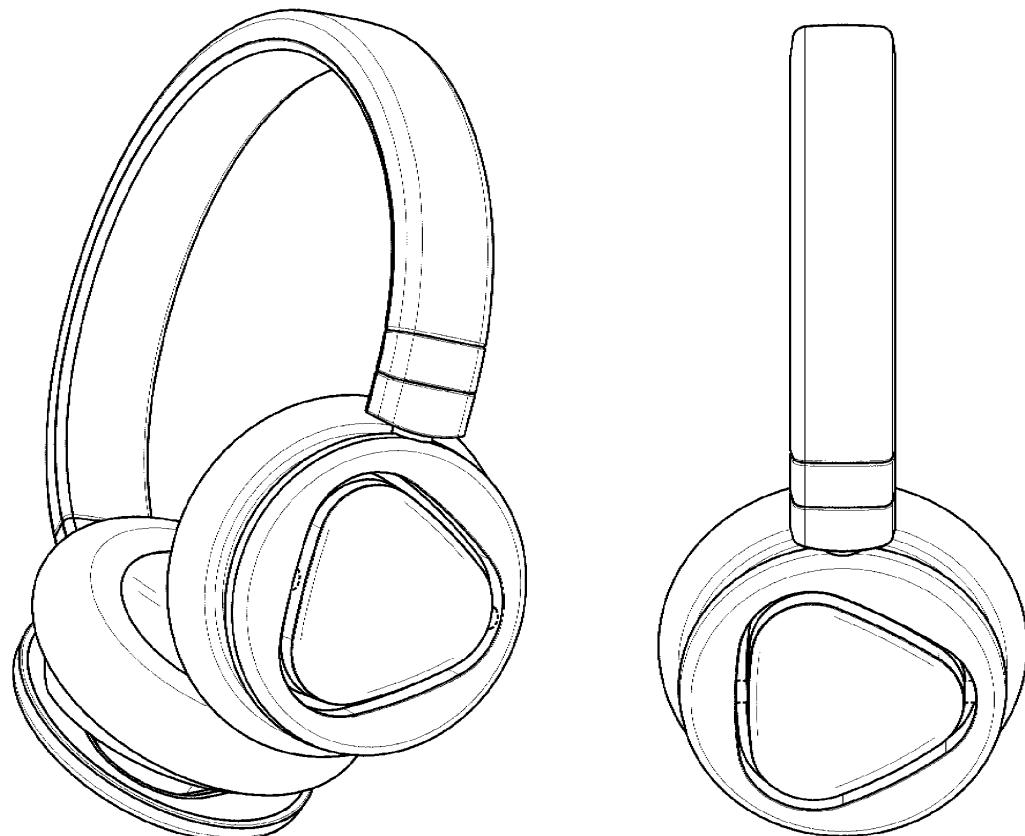


Fig. 133. Headphone (USD716255)

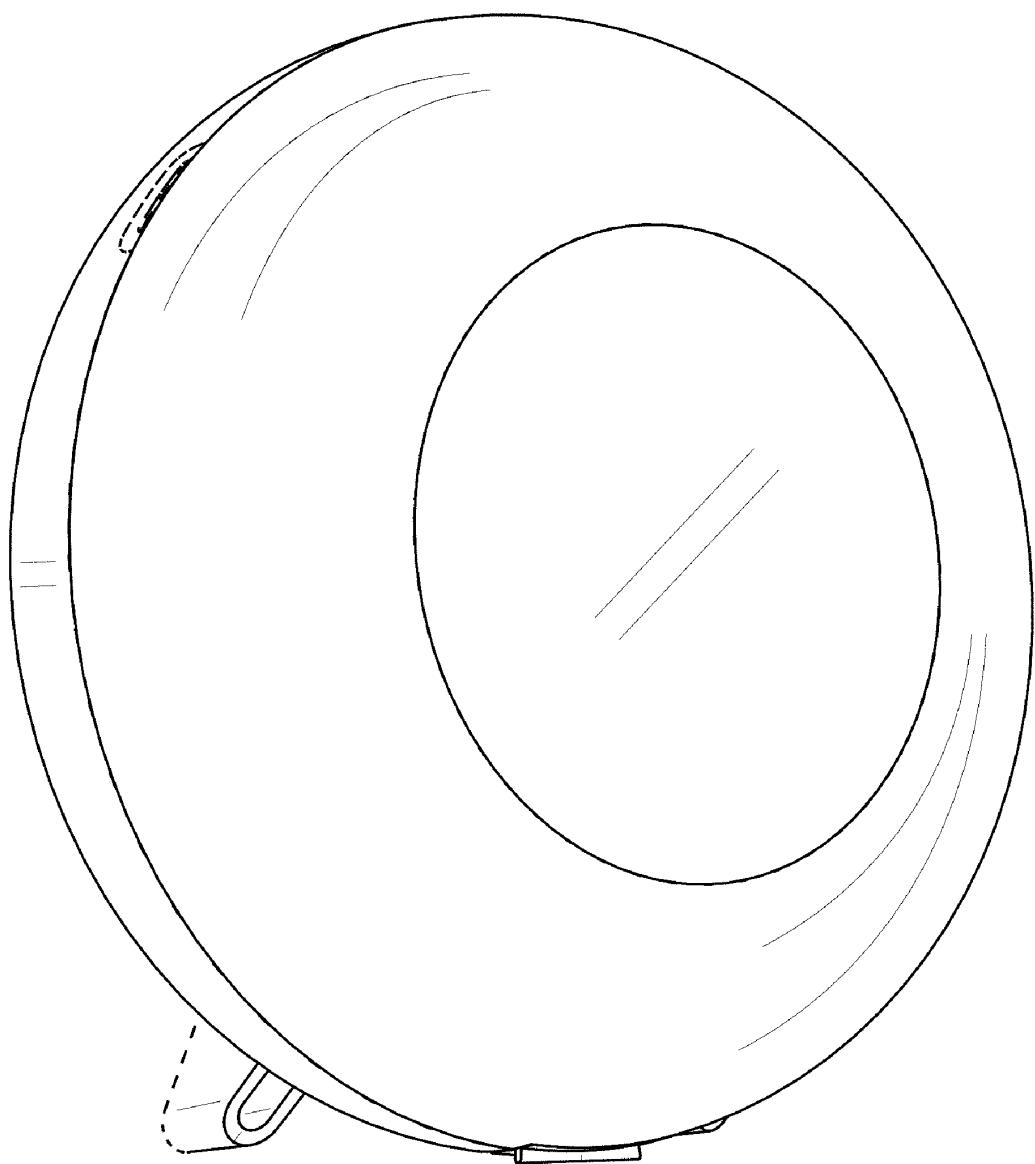


Fig. 134. Product packaging (USD853835)

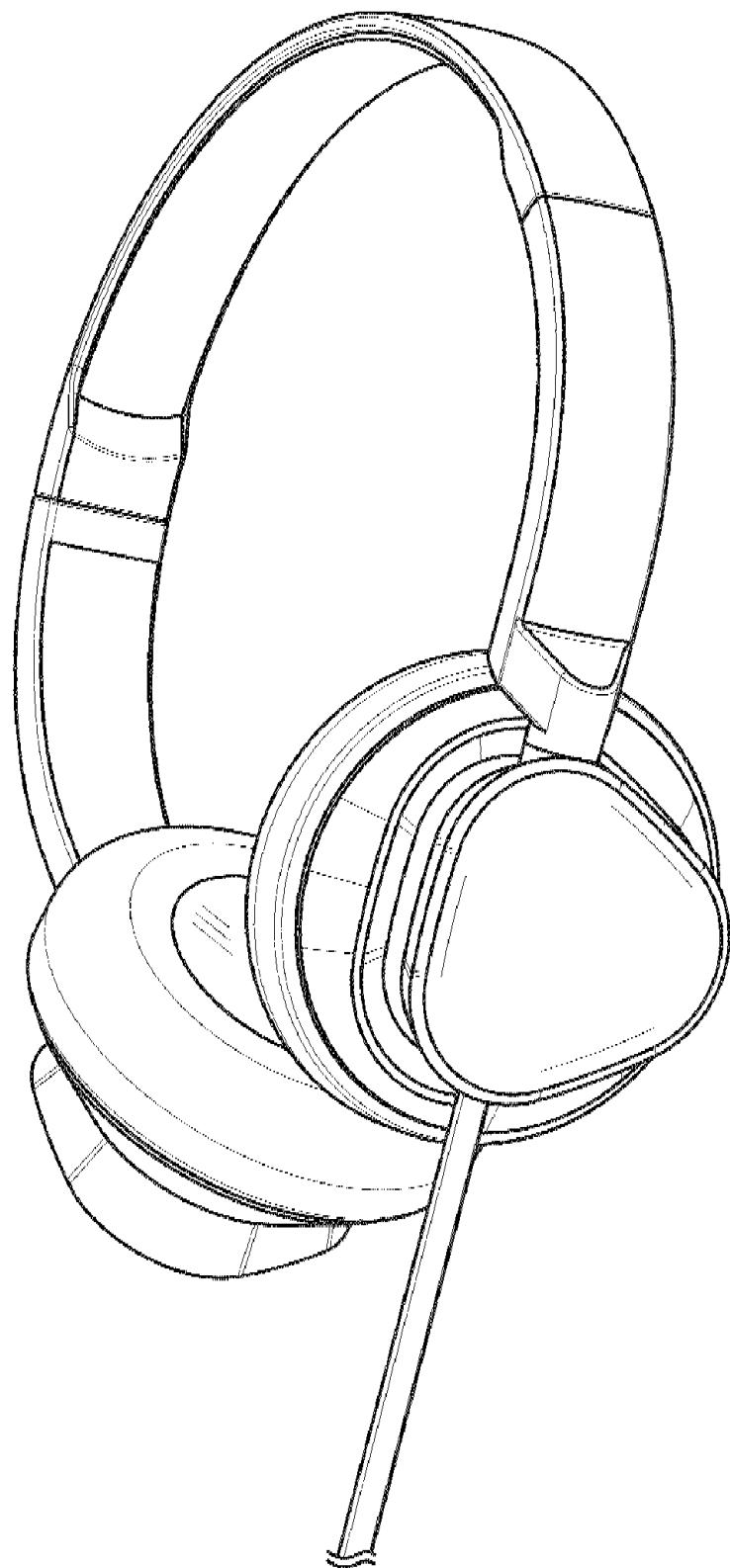


Fig. 135. Headphone (USD714756)

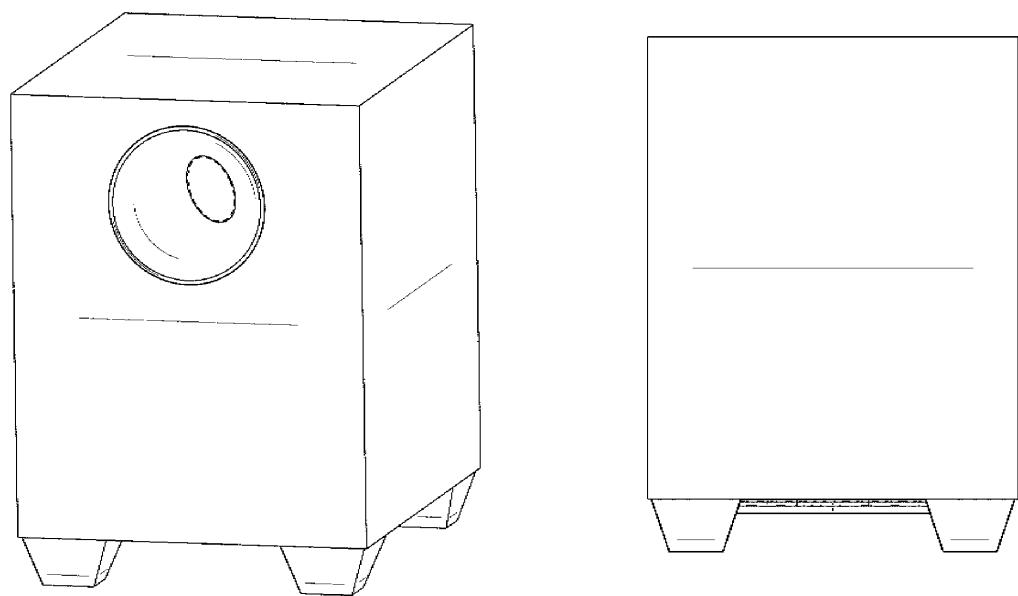


Fig. 136. Sound device (USD848974)

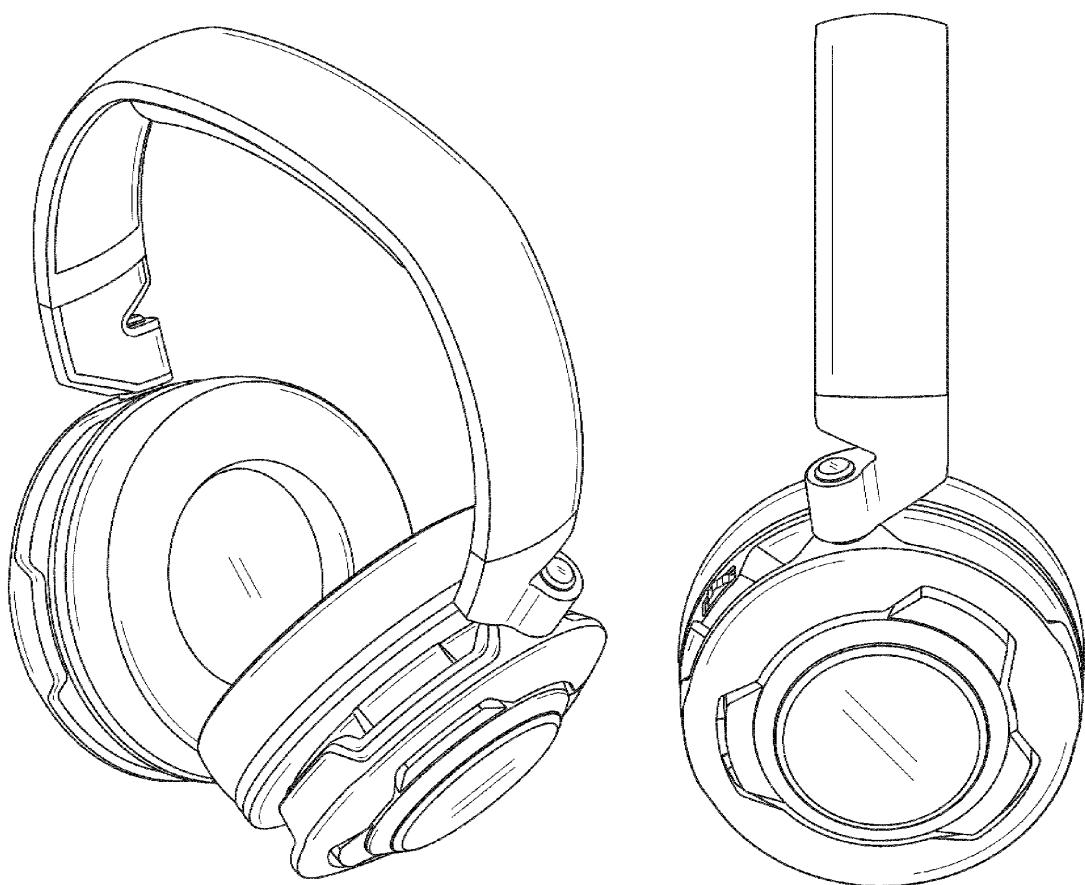


Fig. 137. Headphone (USD719133)

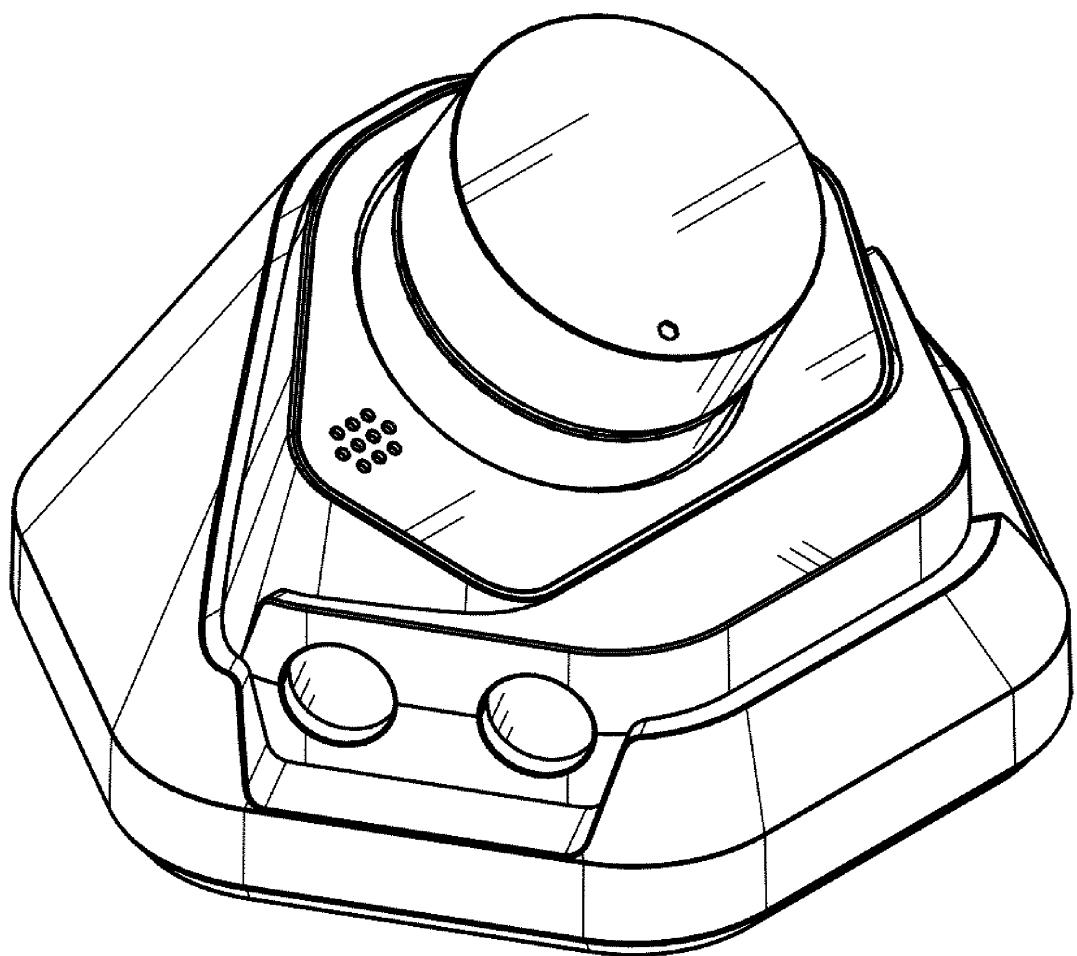


Fig. 138. Control module (USD702194)

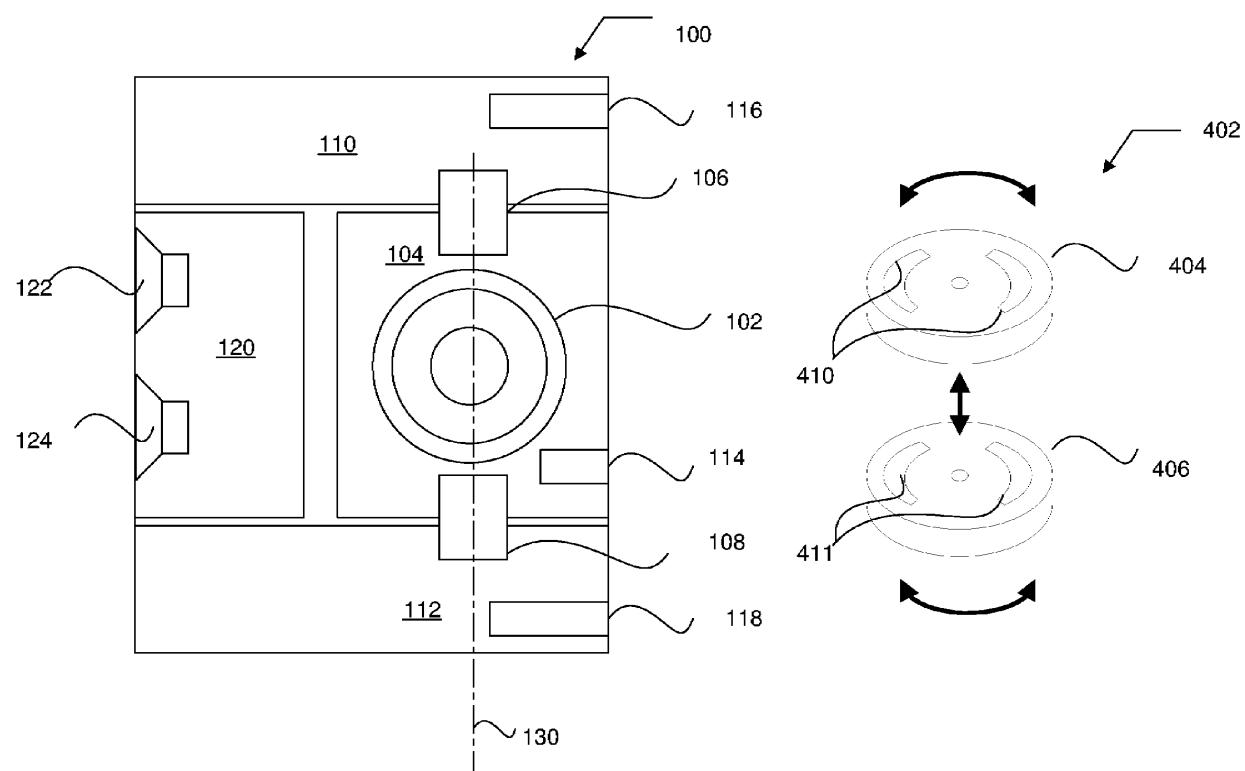


Fig. 139. Multimedia speaker product (US7350618)

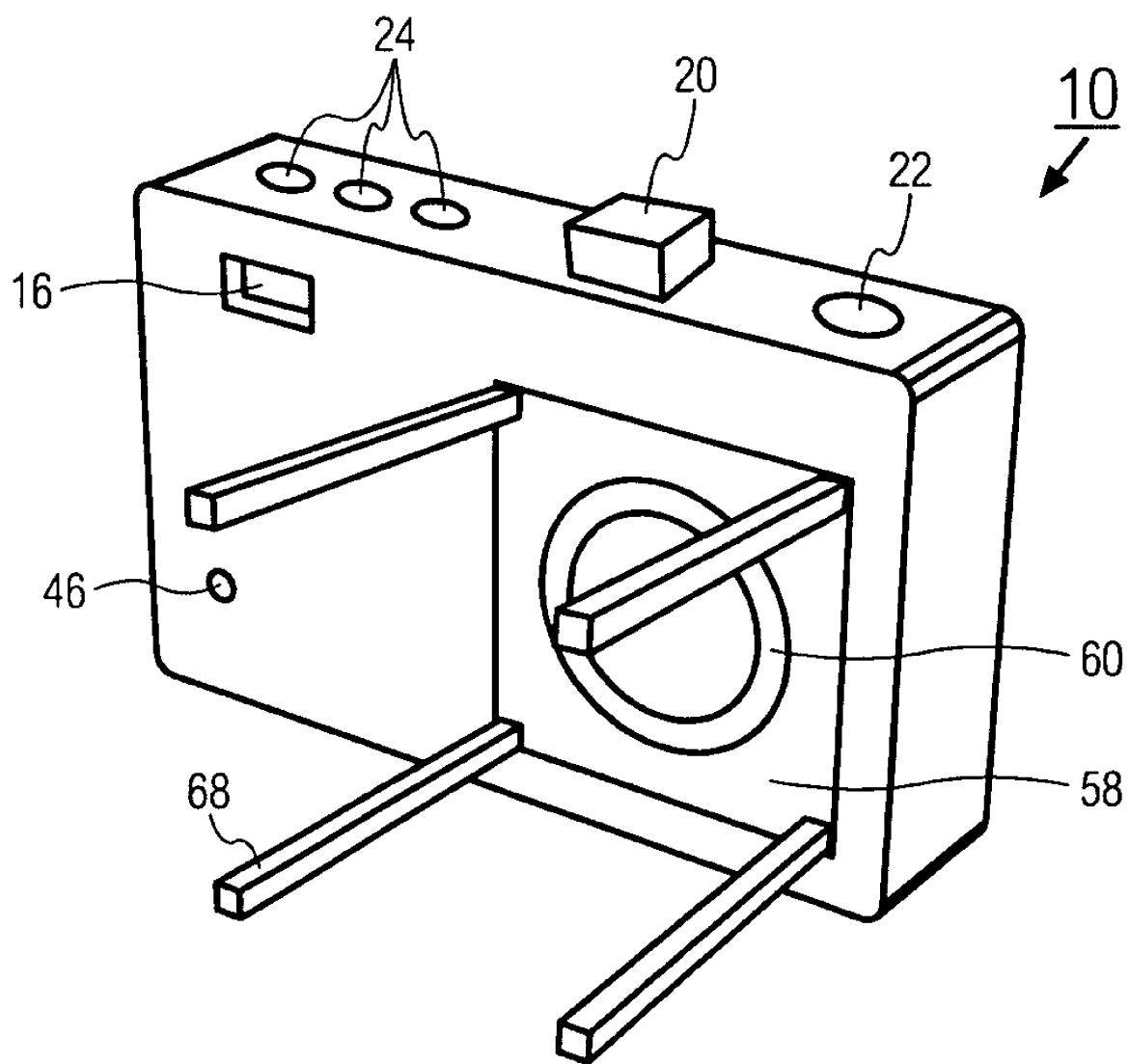


Fig. 140. Still camera with audio decoding and coding a printable audio format and method (US7847835)

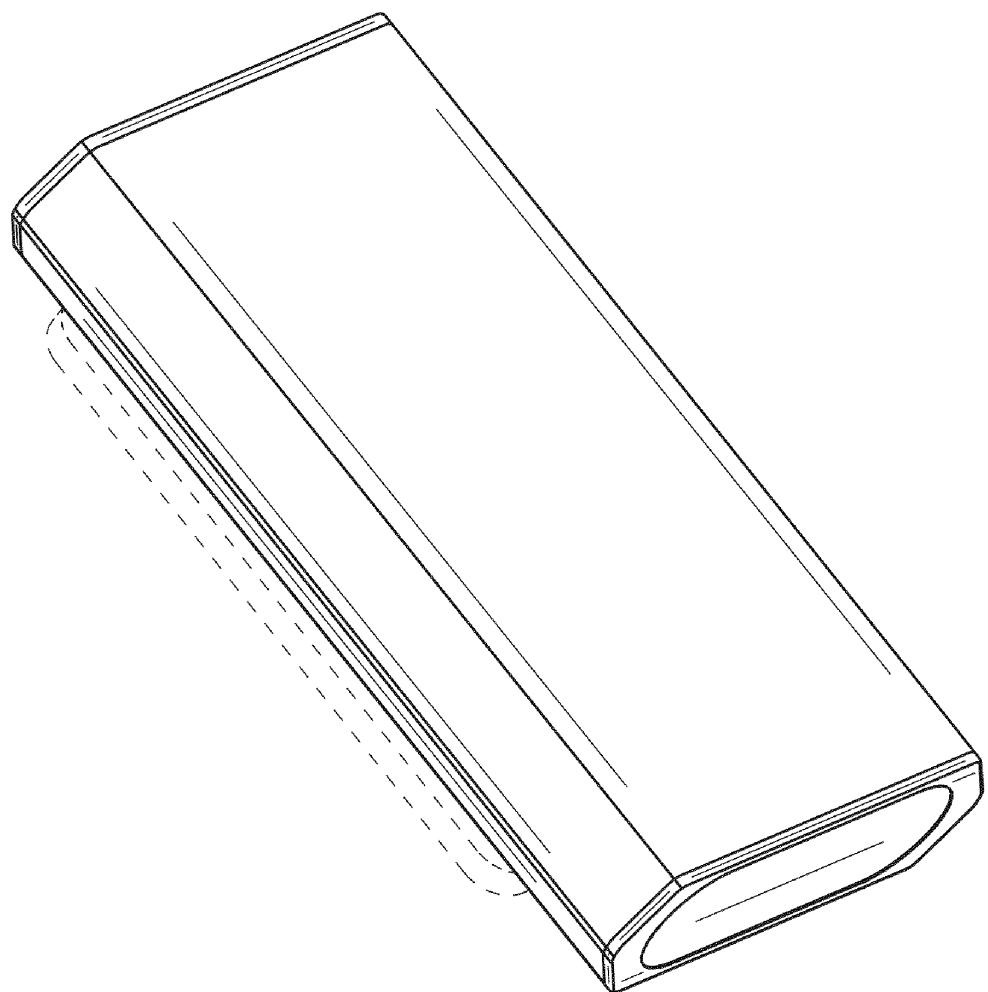


Fig. 141. Sound device (USD754094)

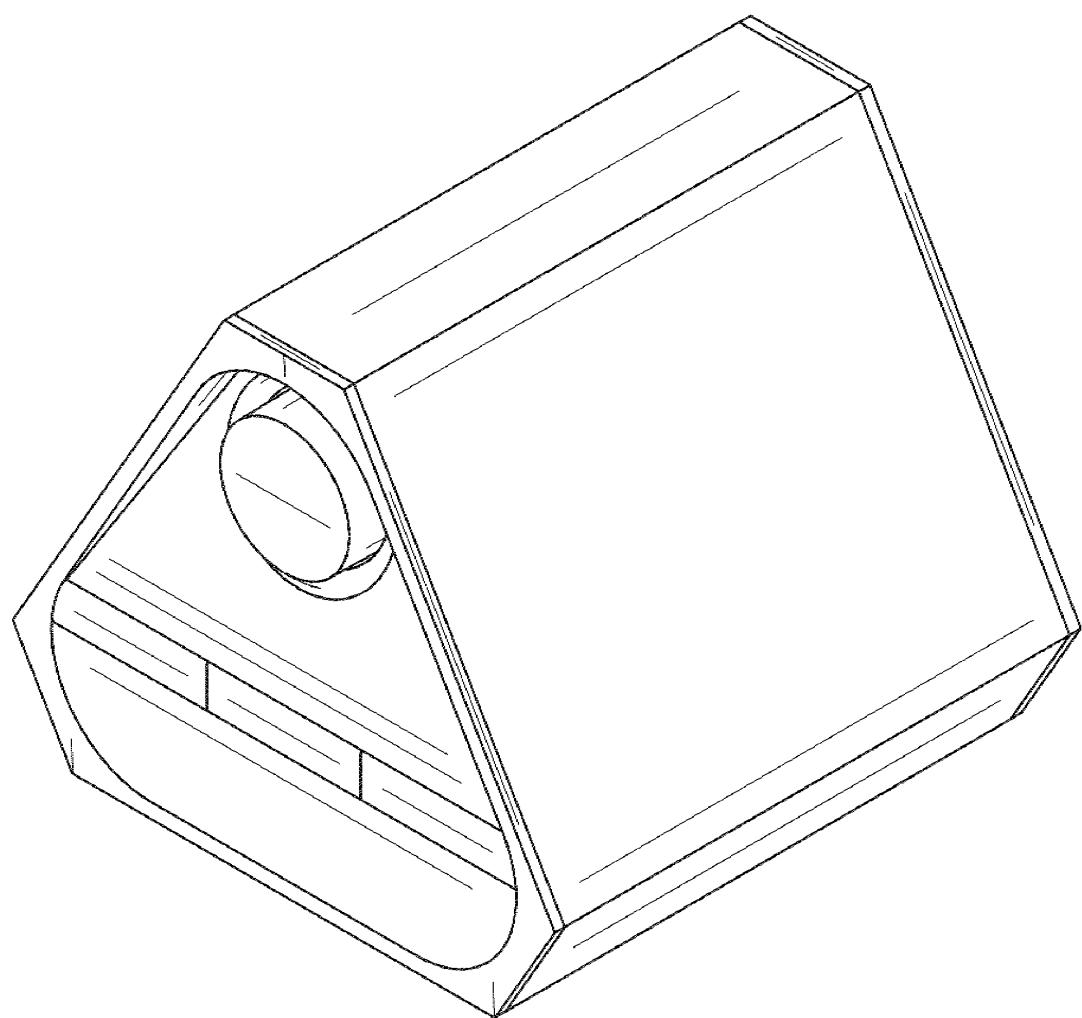


Fig. 142. Sound device (USD754093)

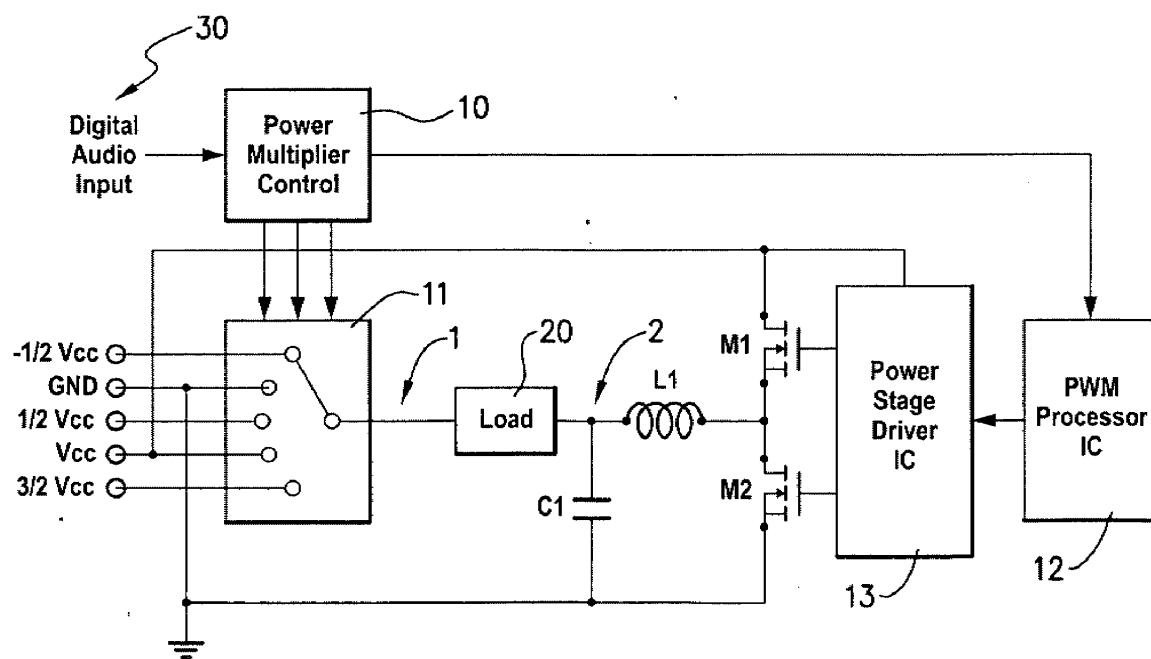


Fig. 143. Power multiplier system and method (US2006114057)

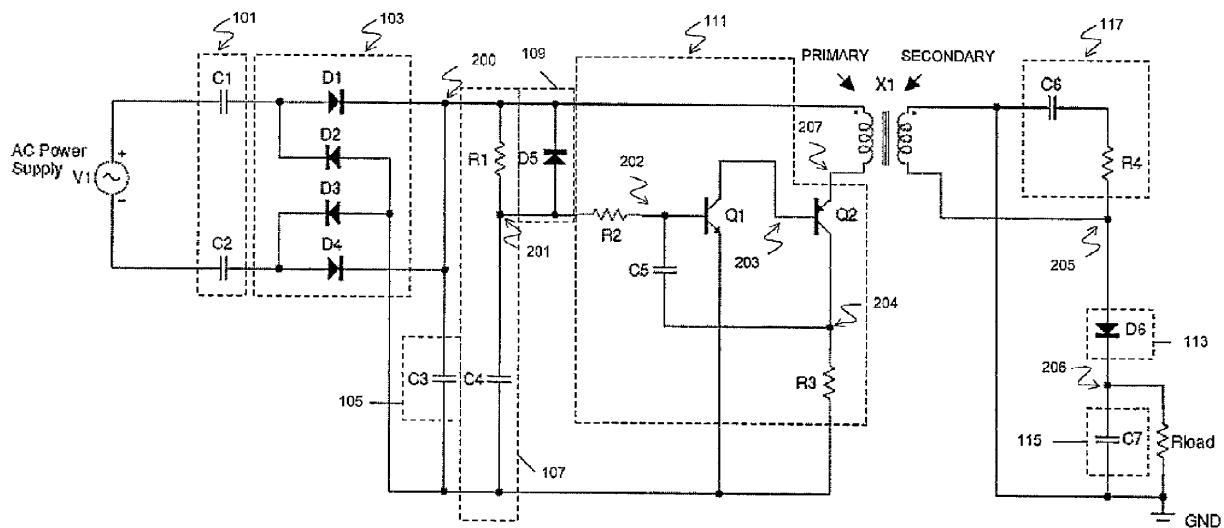


Fig. 144. Power supply (US7675760)

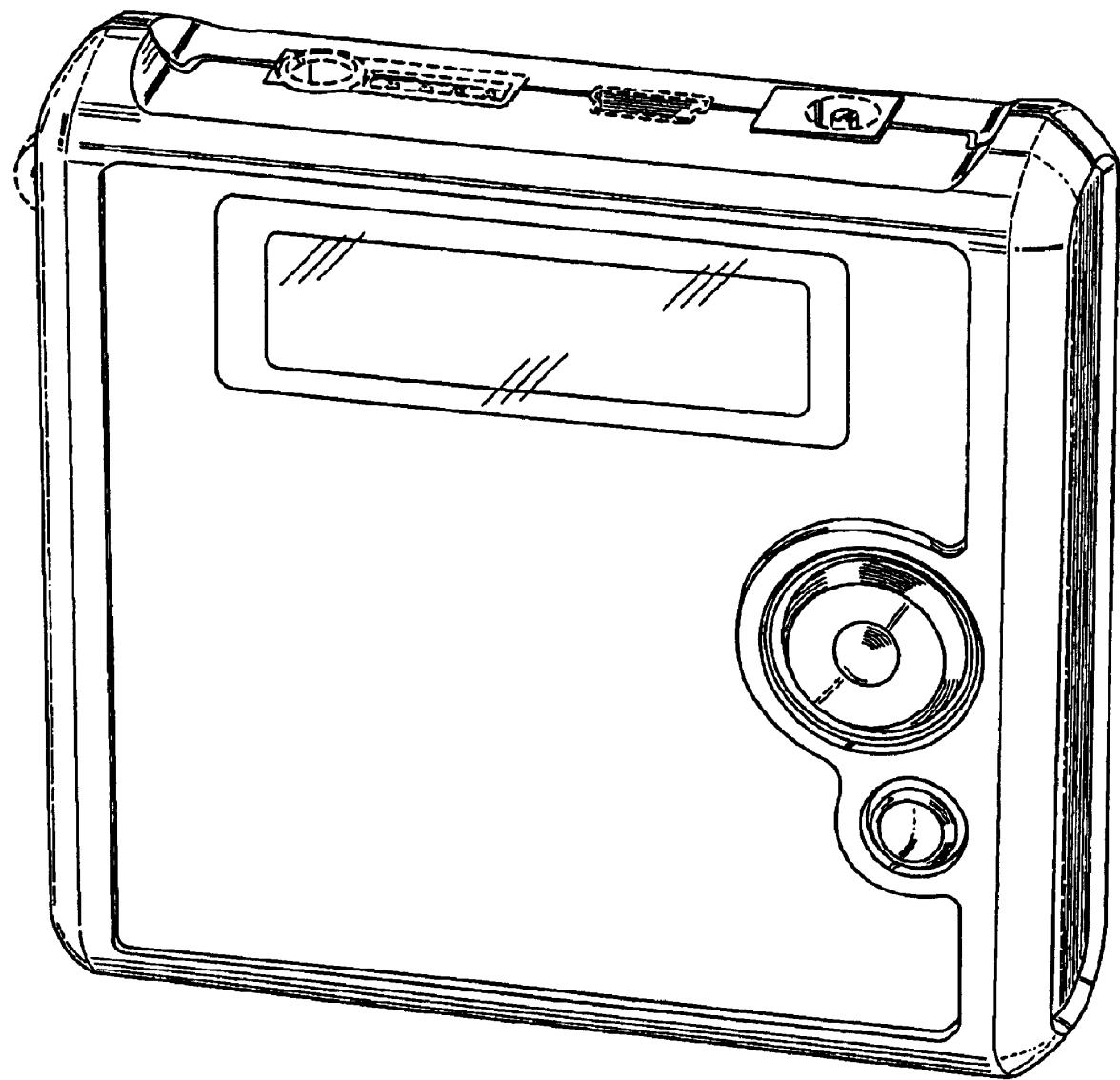


Fig. 145. Media player (USD499424)

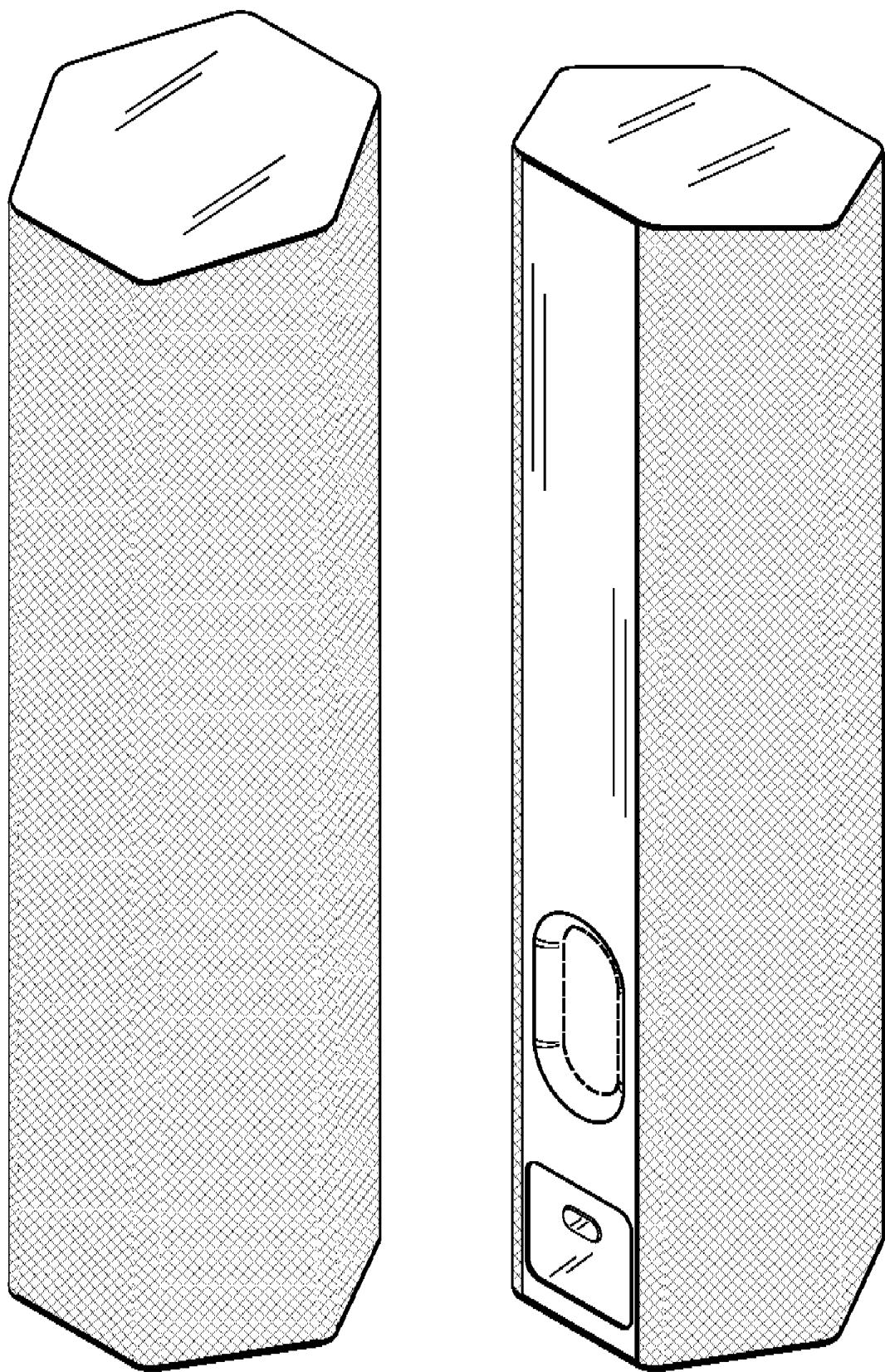


Fig. 146. Speaker (USD680517)

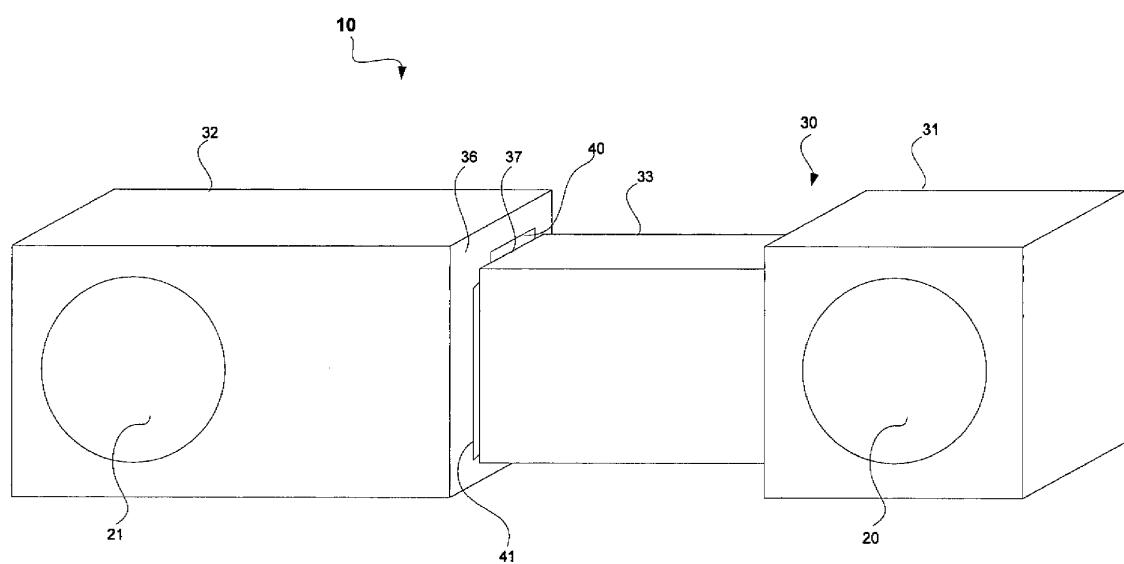


Fig. 147. Portable speaker assembly (US2007017834)

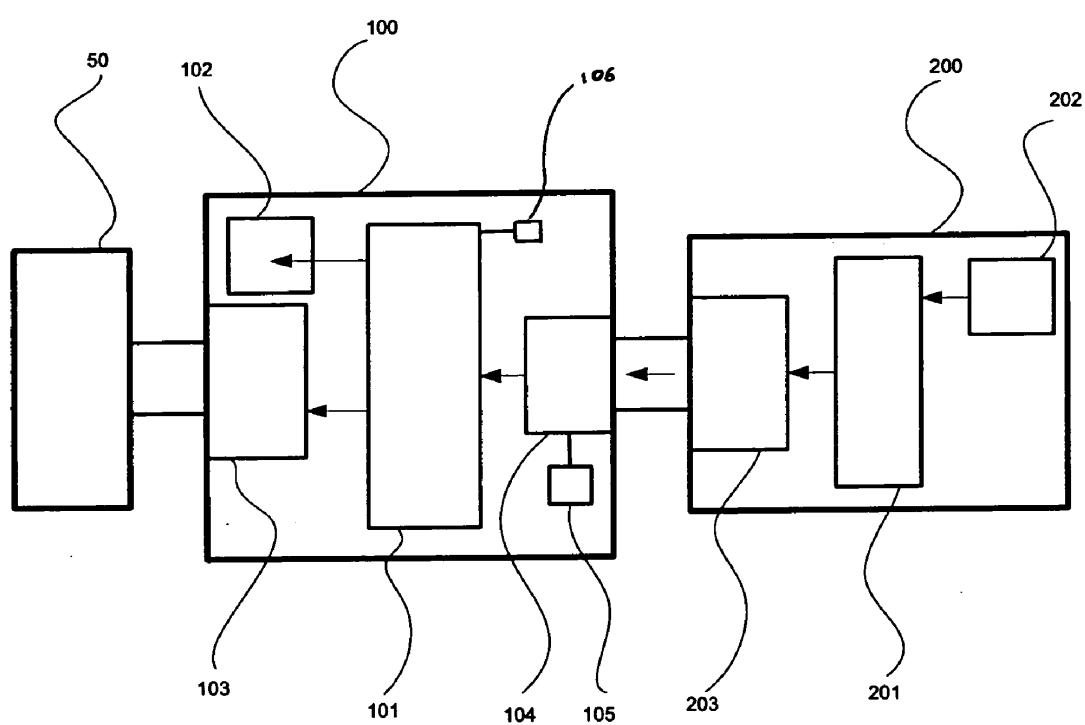


Fig. 148. Portable data storage device (US2006277333)

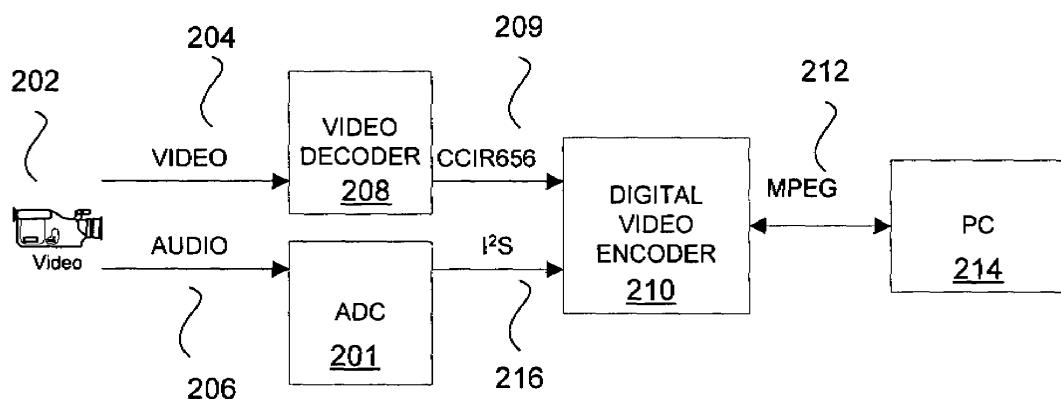


Fig. 149. Combined audio/video/USB device (US8514929)

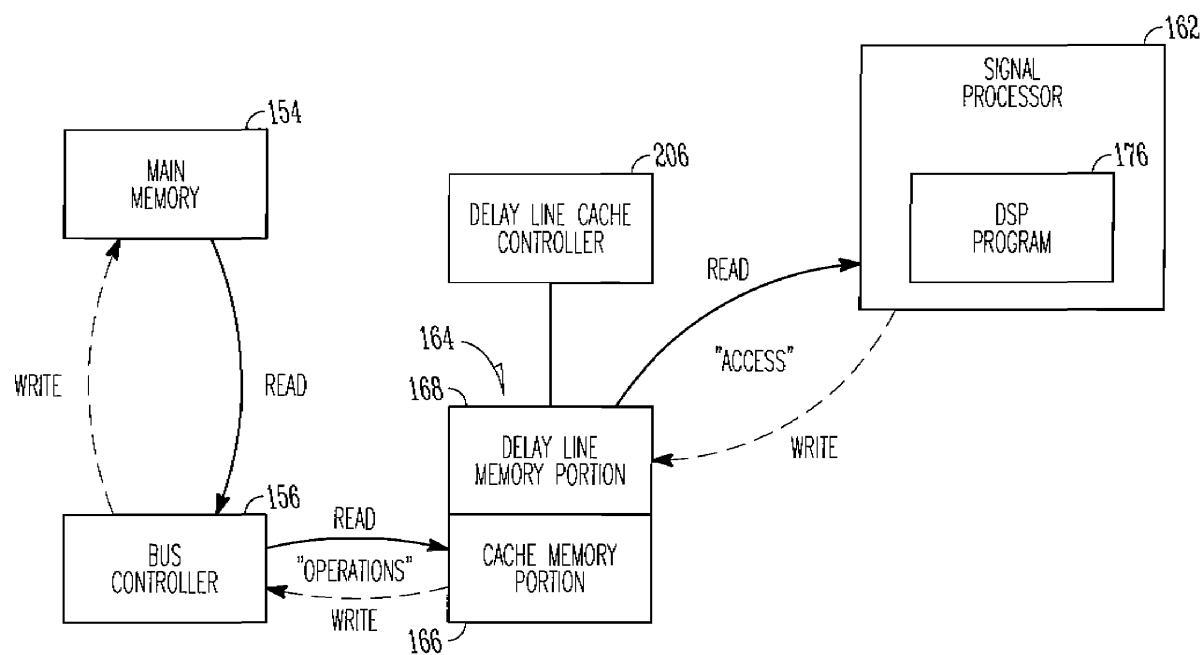


Fig. 150. Method and signal processing device to provide one or more fractional delay lines (US2008034024)

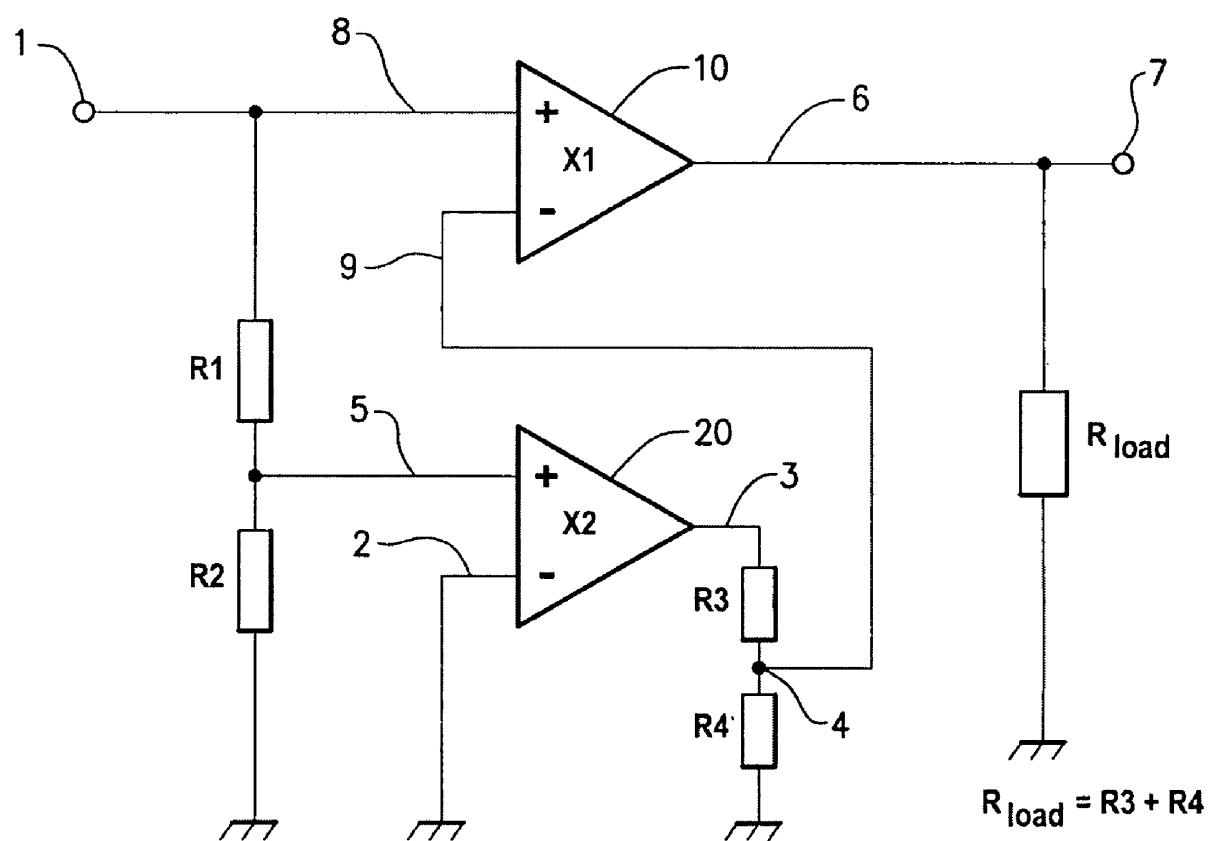


Fig. 151. Amplifier system and method (US2006087369)

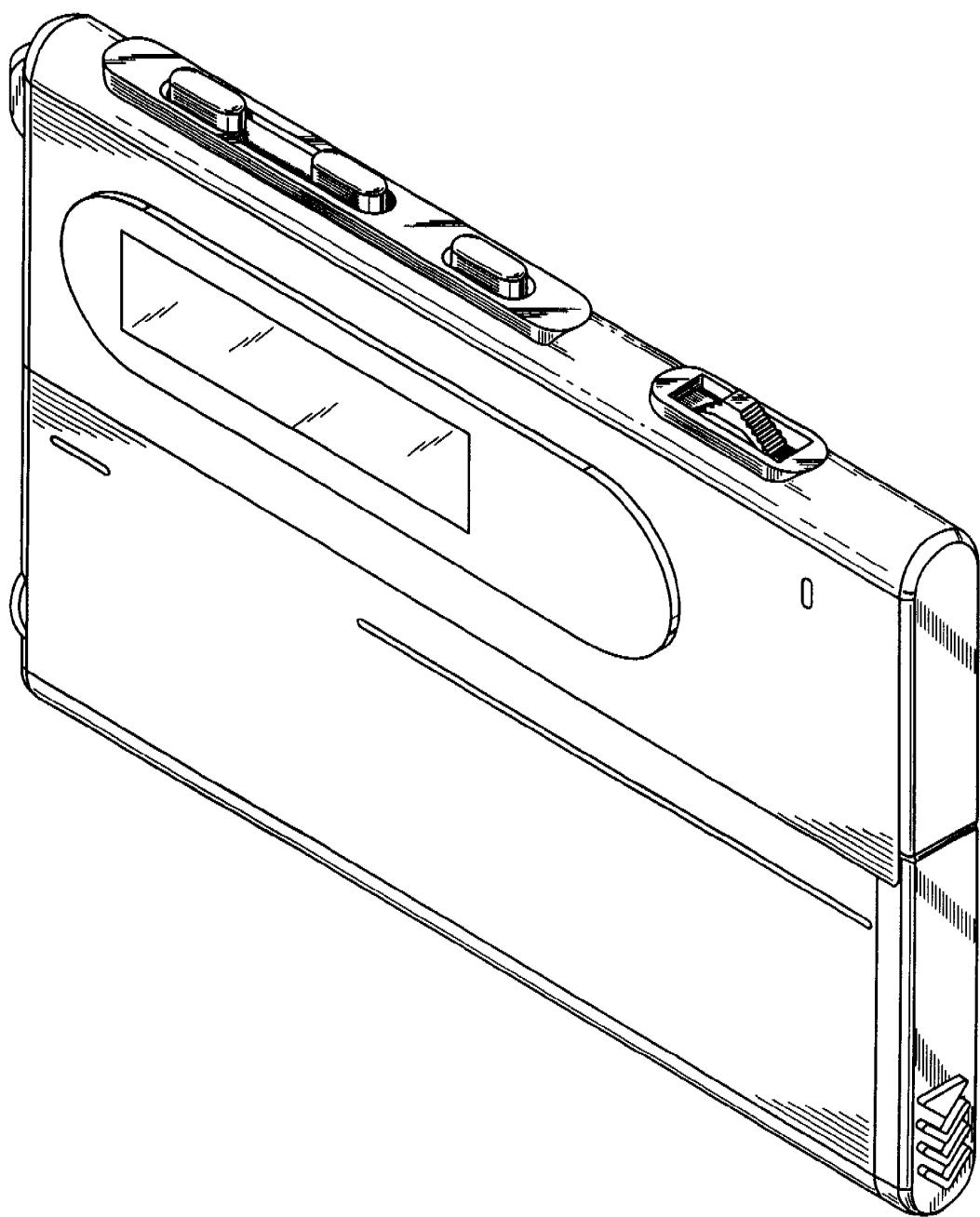


Fig. 152. Media player (USD503409)

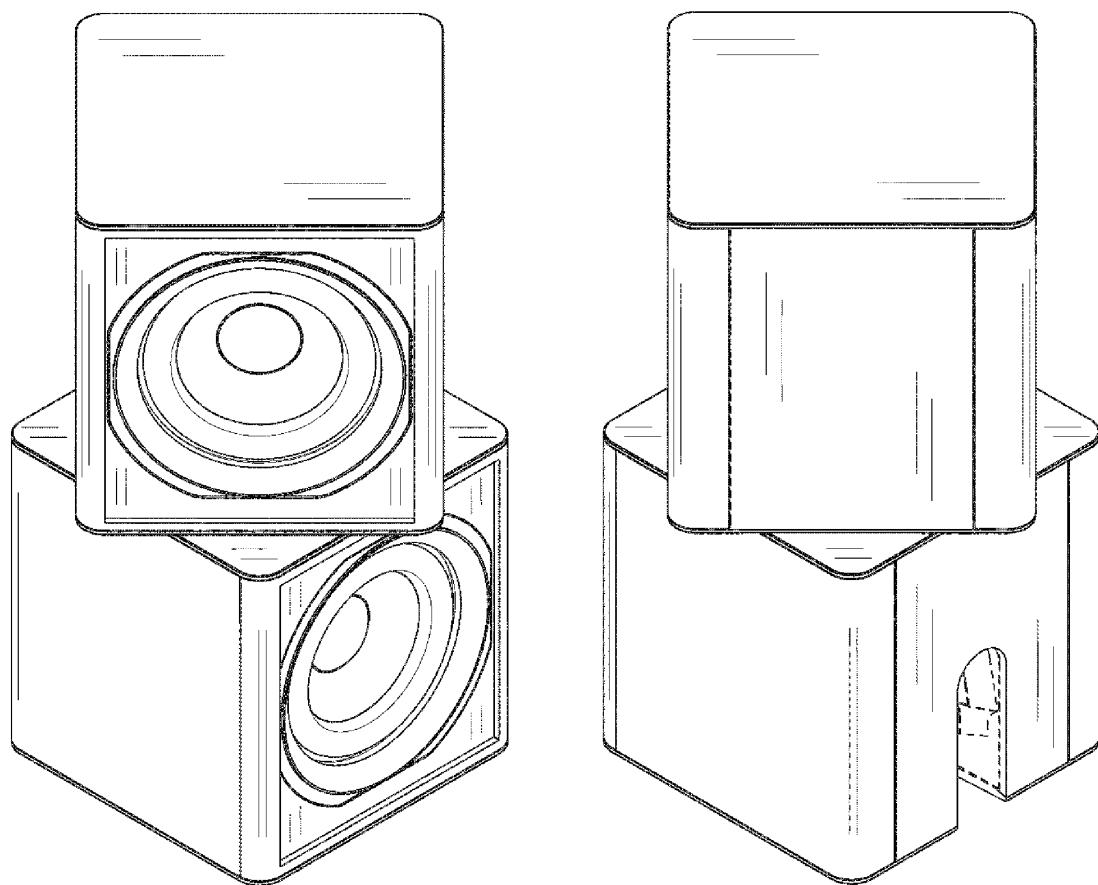


Fig. 153. Speaker (USD727295)

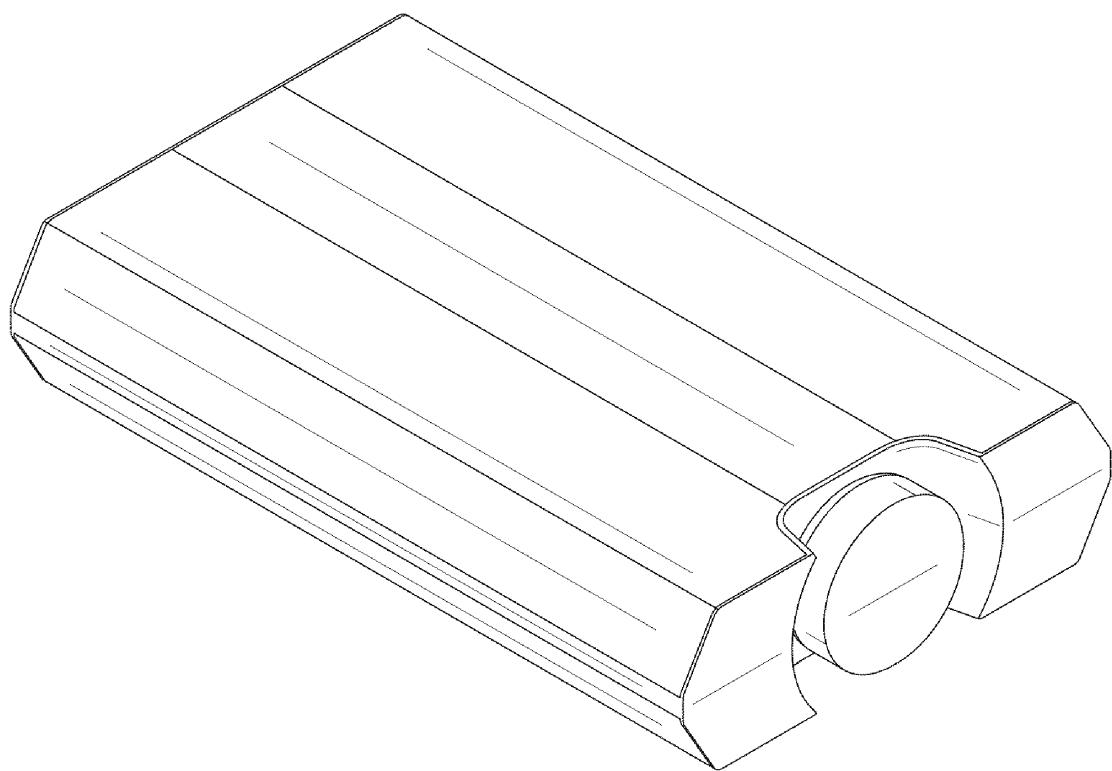


Fig. 154. Sound device (USD762188)

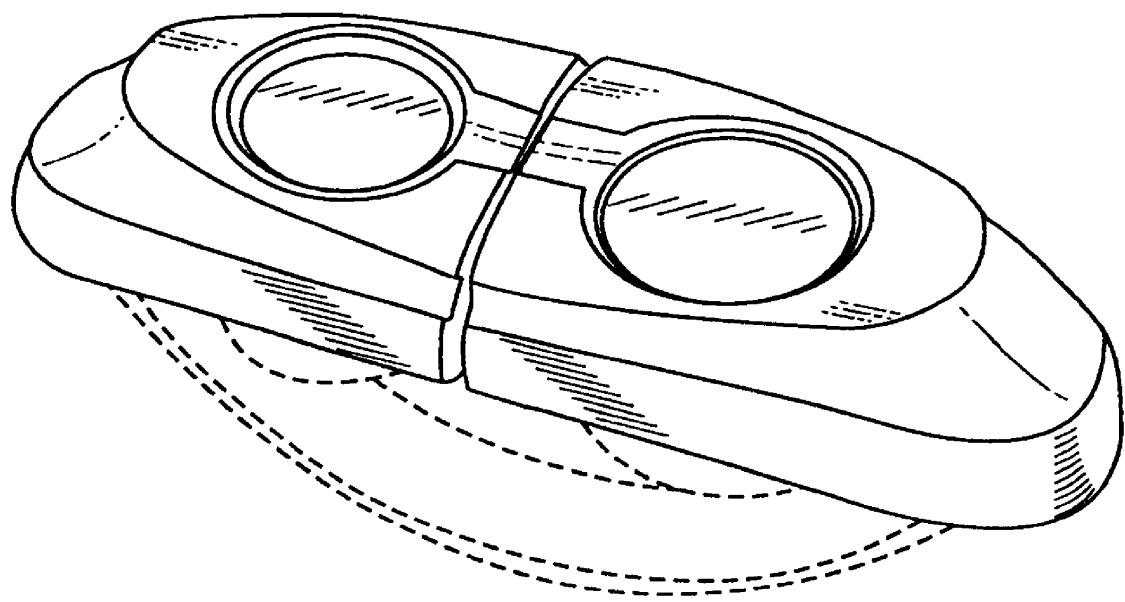


Fig. 155. Headphone and loudspeaker (USD518024)

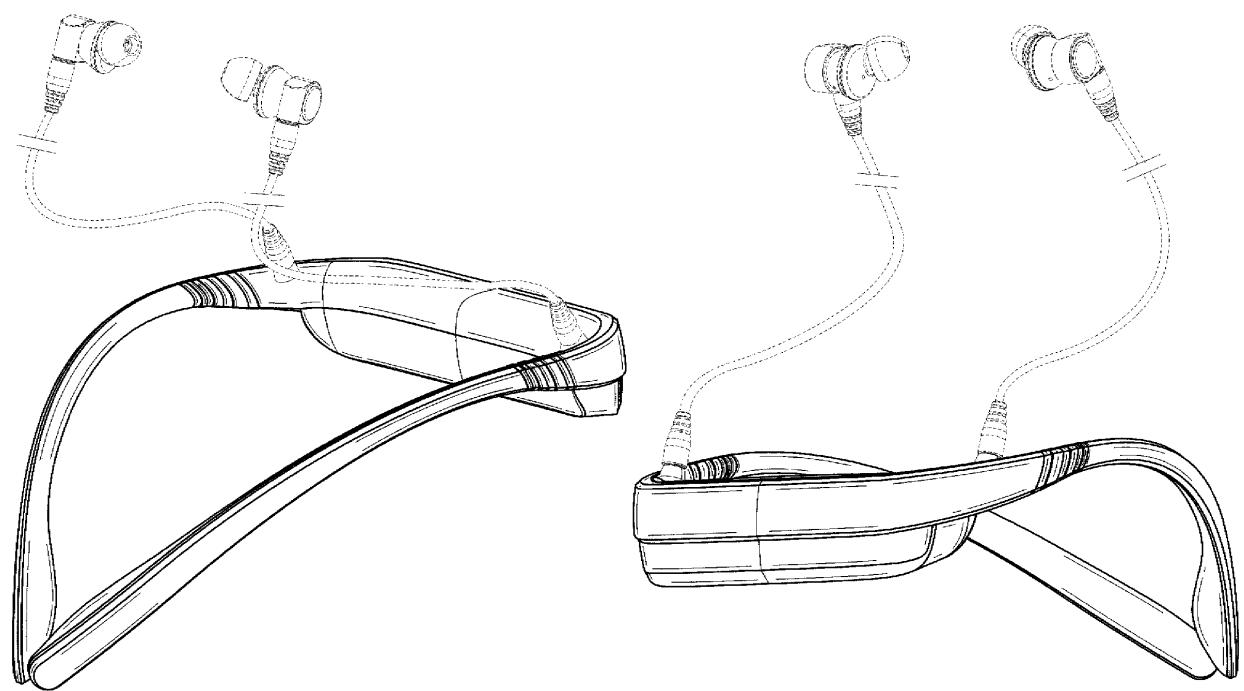


Fig. 156. Audio device (USD878326)

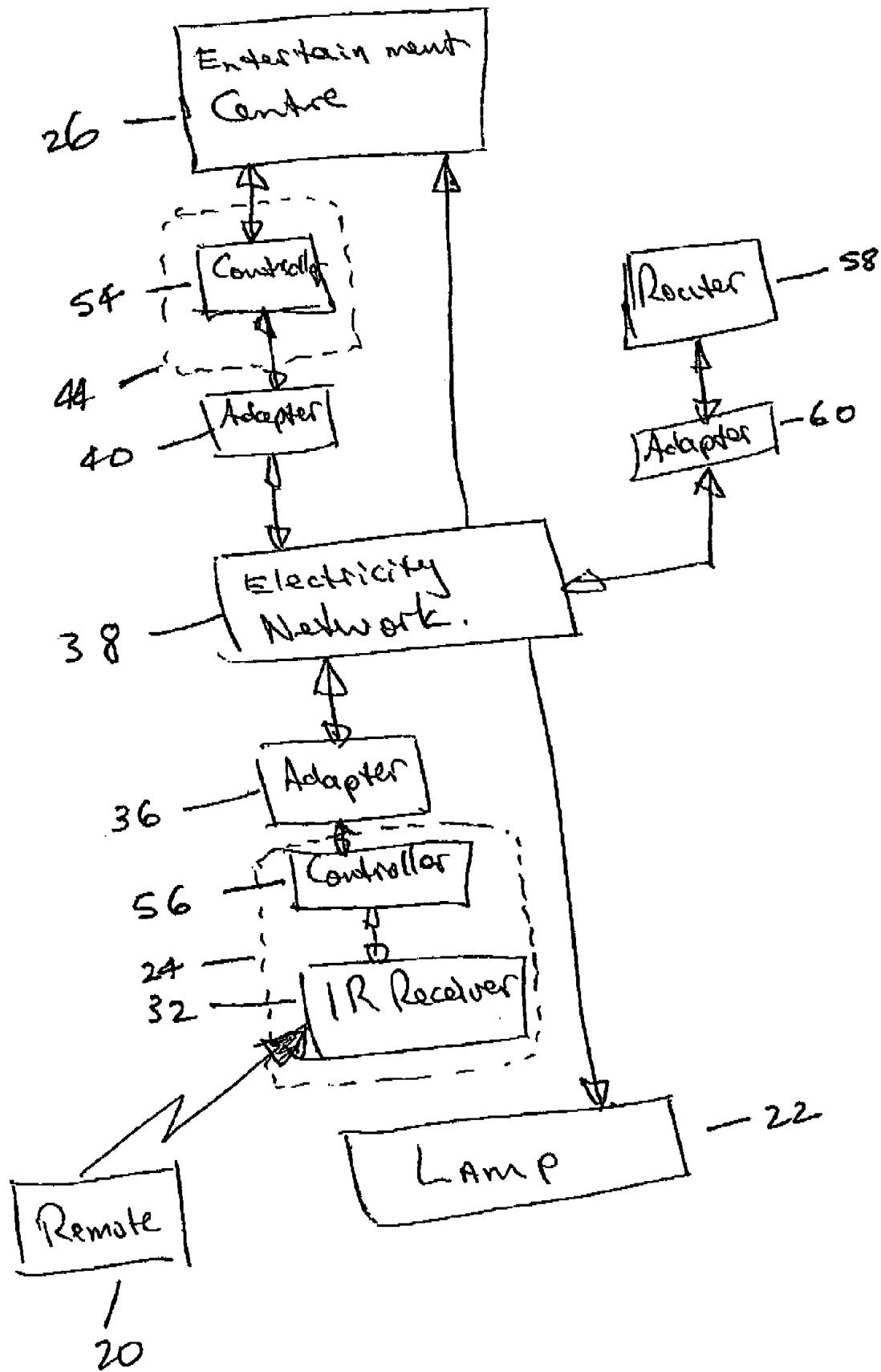


Fig. 157. Apparatus and method for networked remote control (US2006227004)

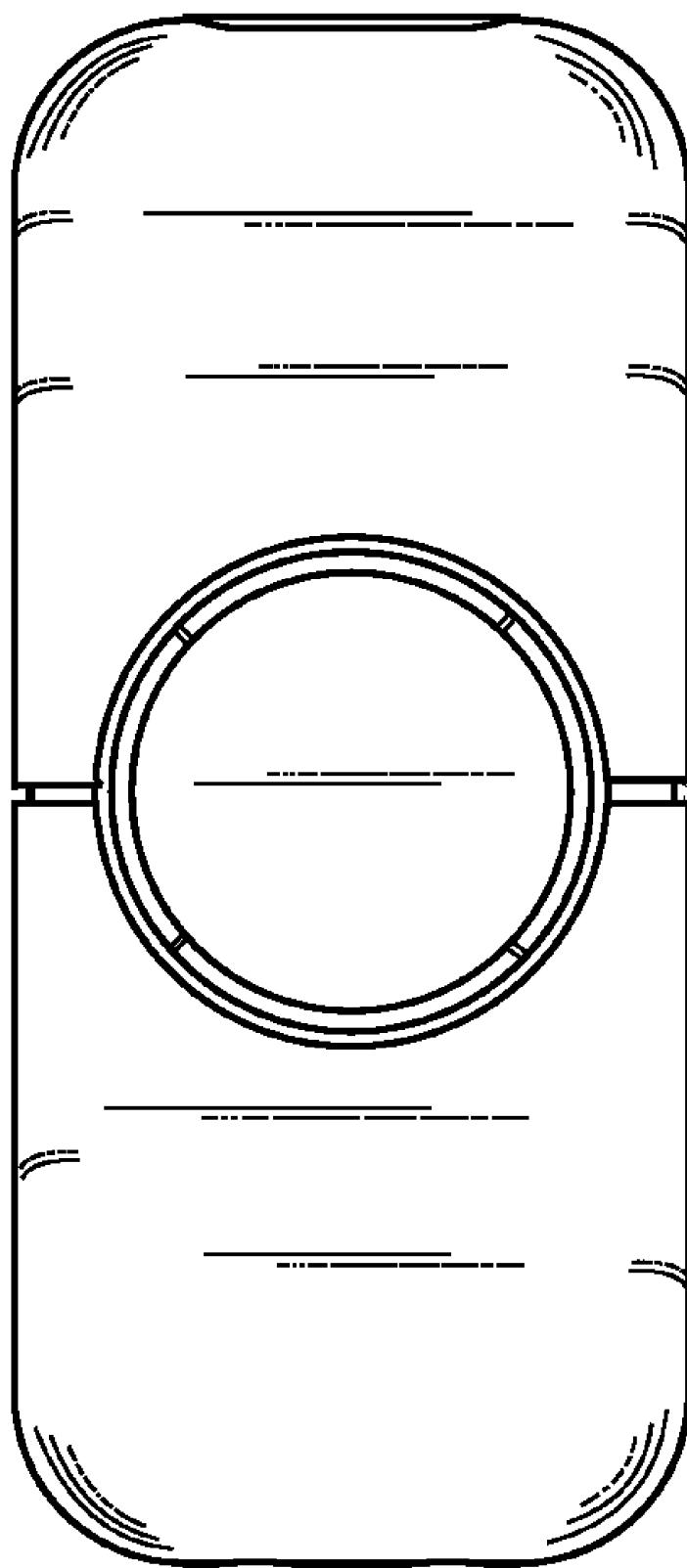


Fig. 158. Audio processor (USD579461)

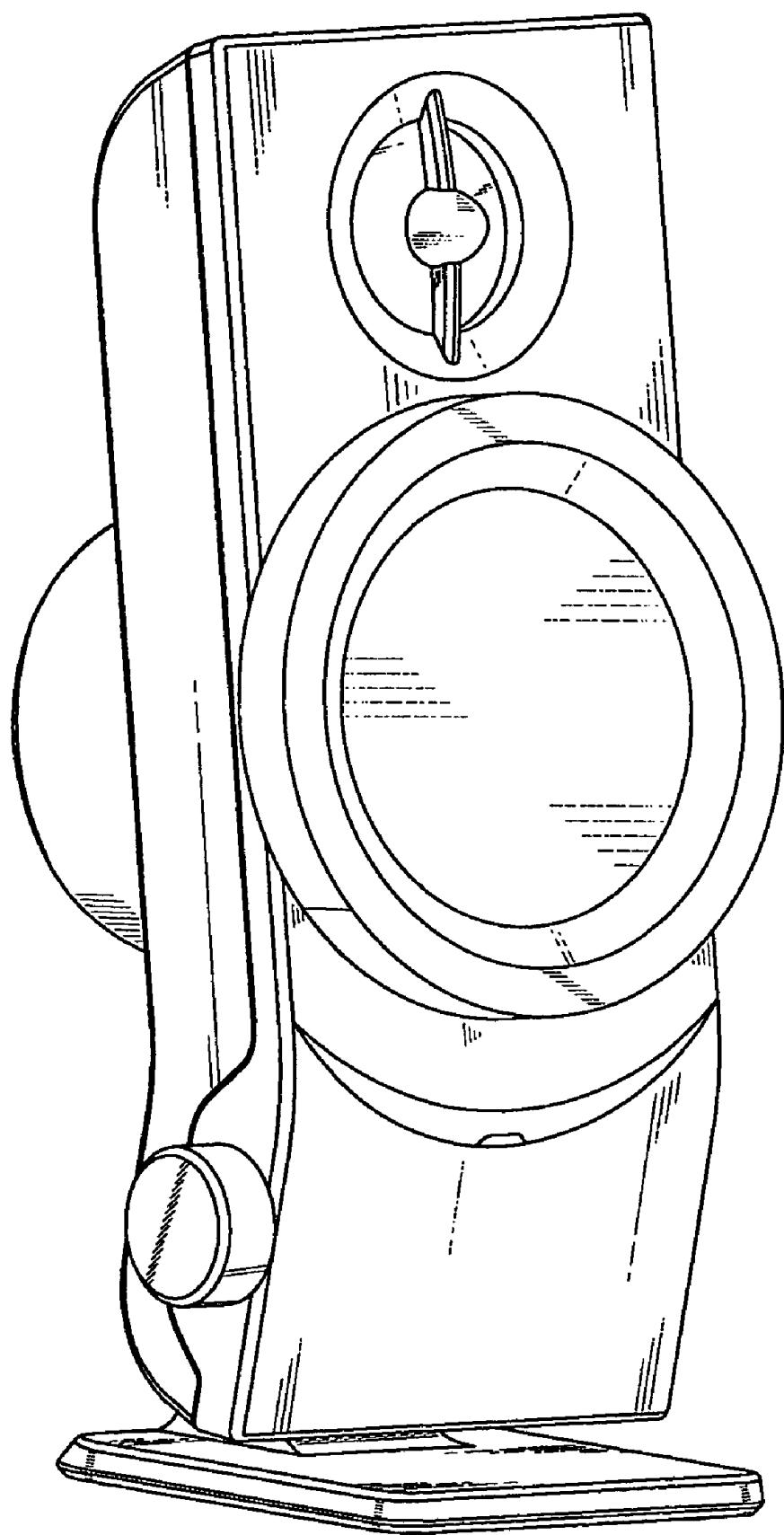


Fig. 159. Loudspeaker device (USD552083)

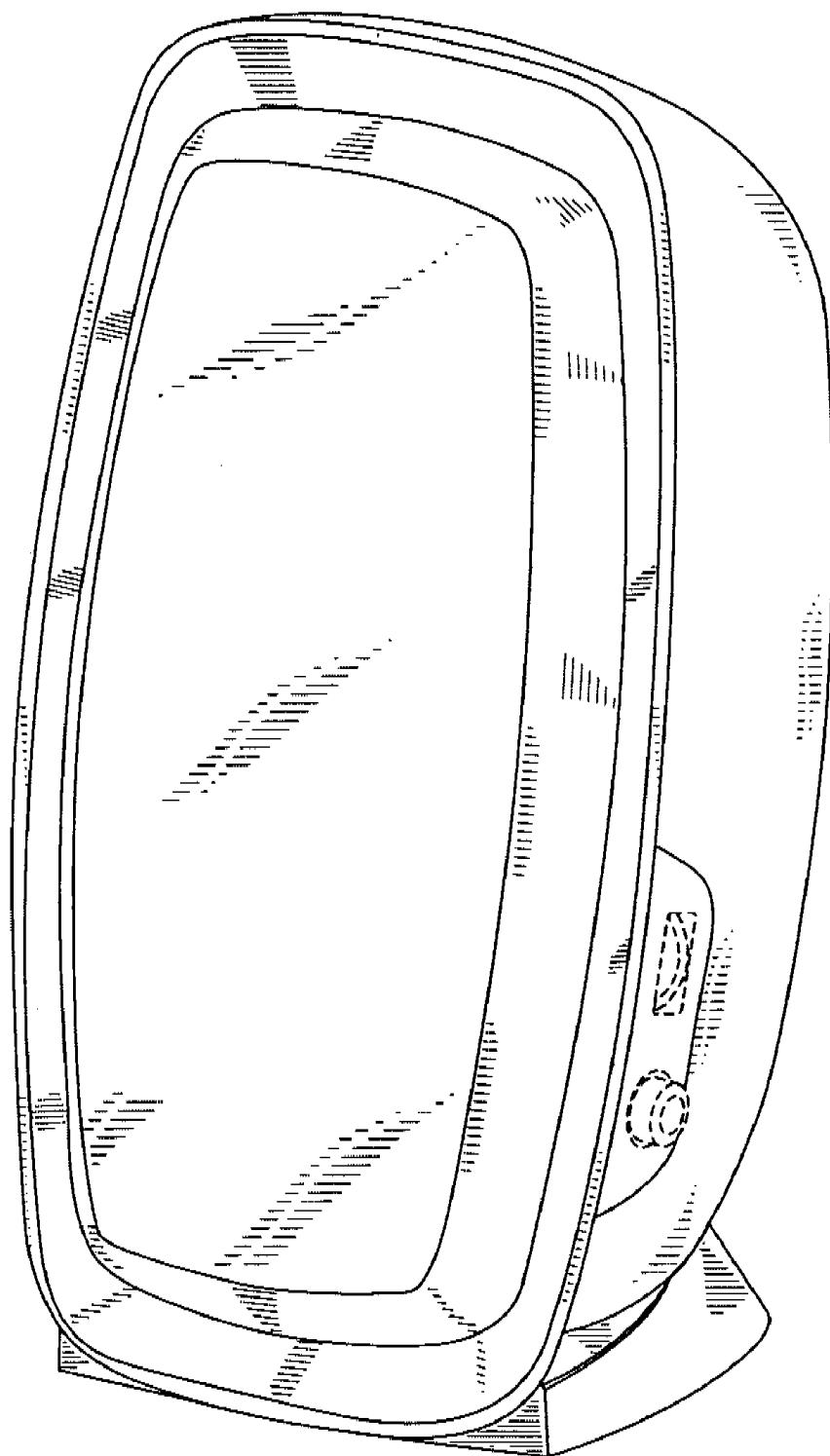


Fig. 160. Loudspeaker device (USD565028)

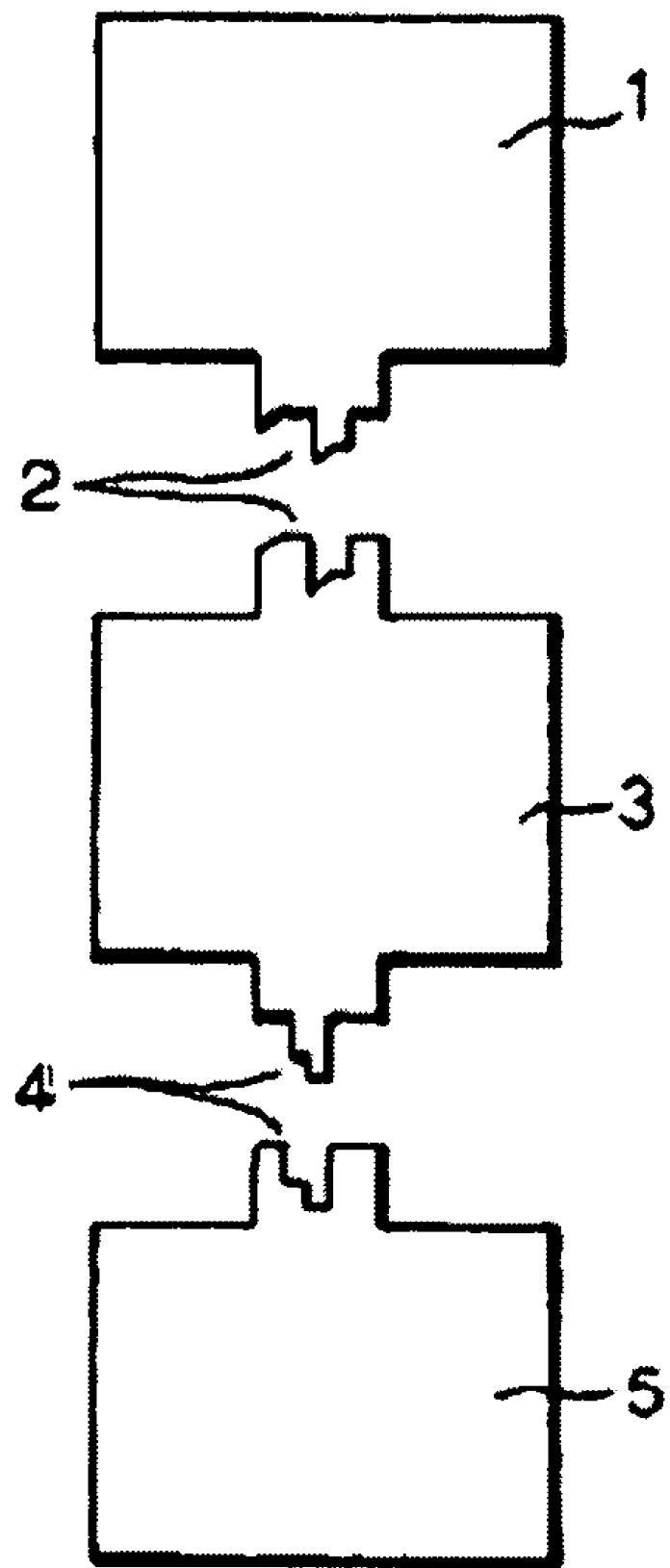


Fig. 161. Device driver system (US2004230988)

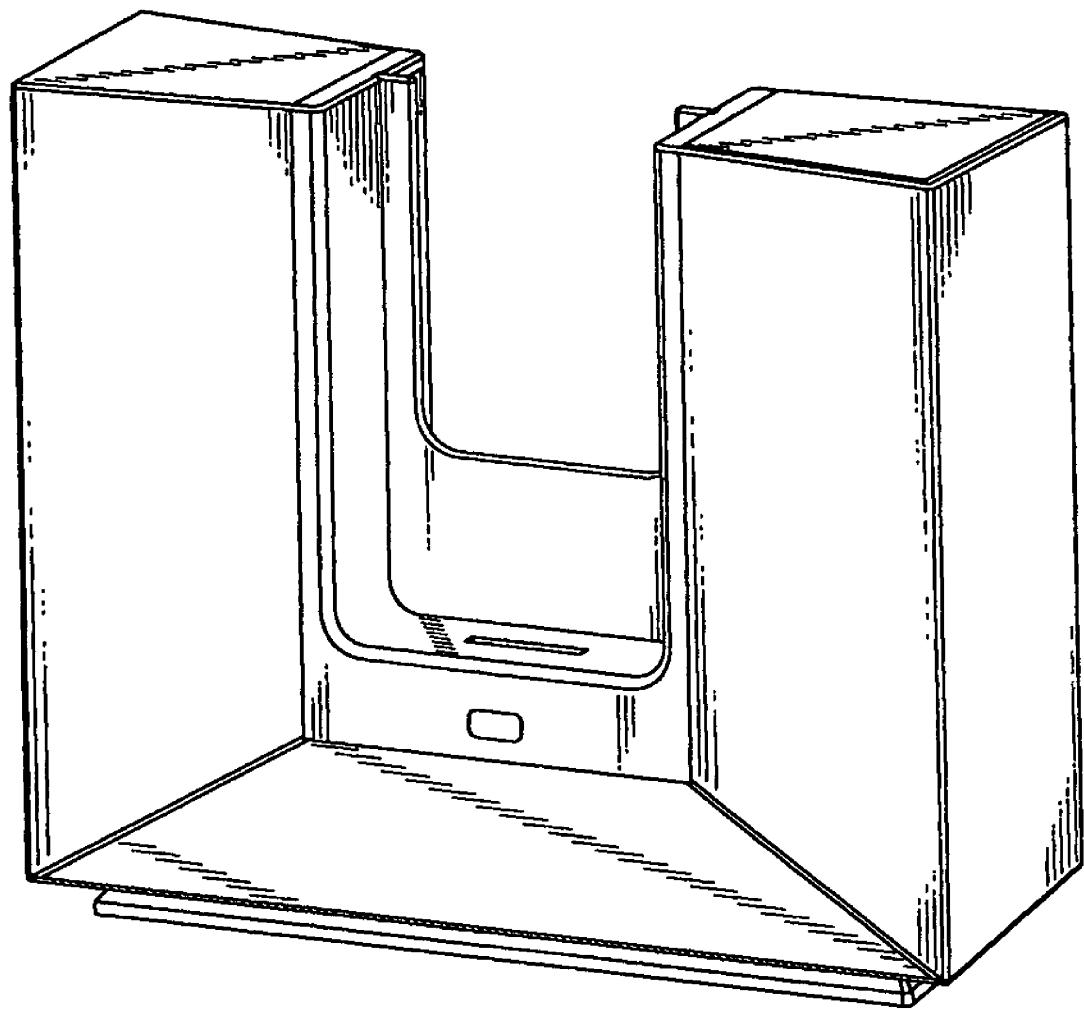


Fig. 162. Loudspeaker and cradle for electronic device (USD554106)

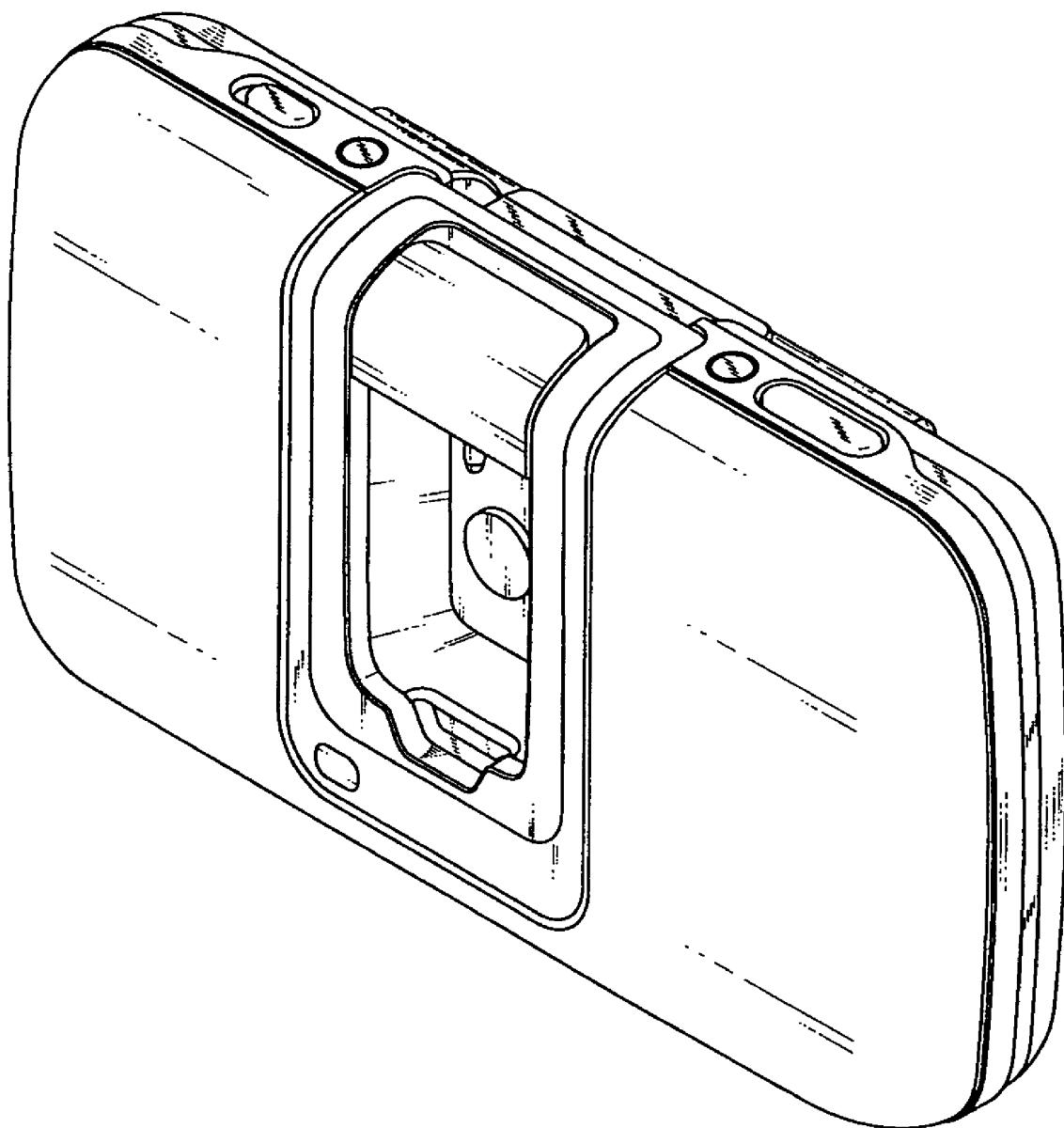


Fig. 163. Loudspeaker device (USD556188)

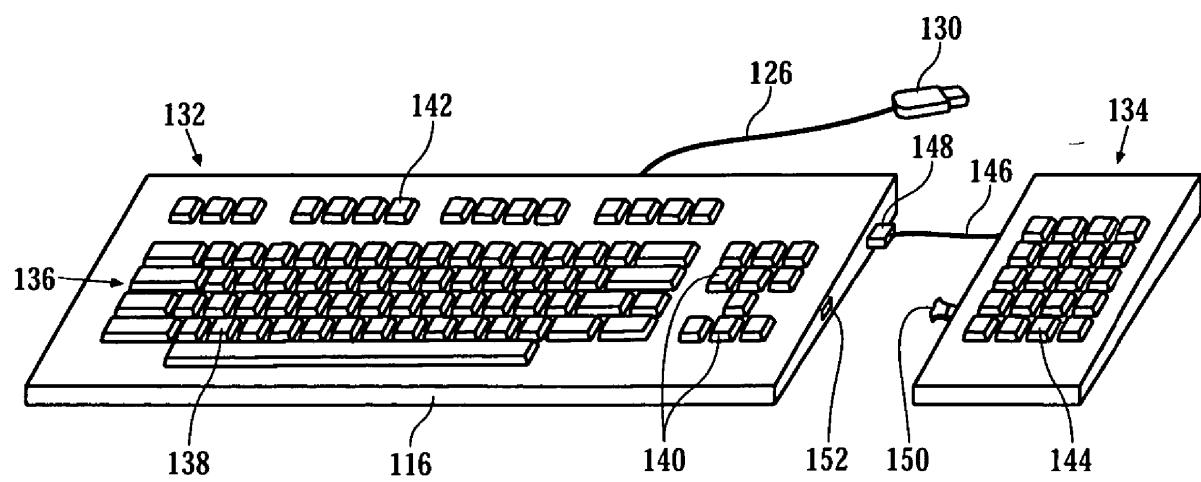


Fig. 164. Keyboard with extended connection (US2007041771)

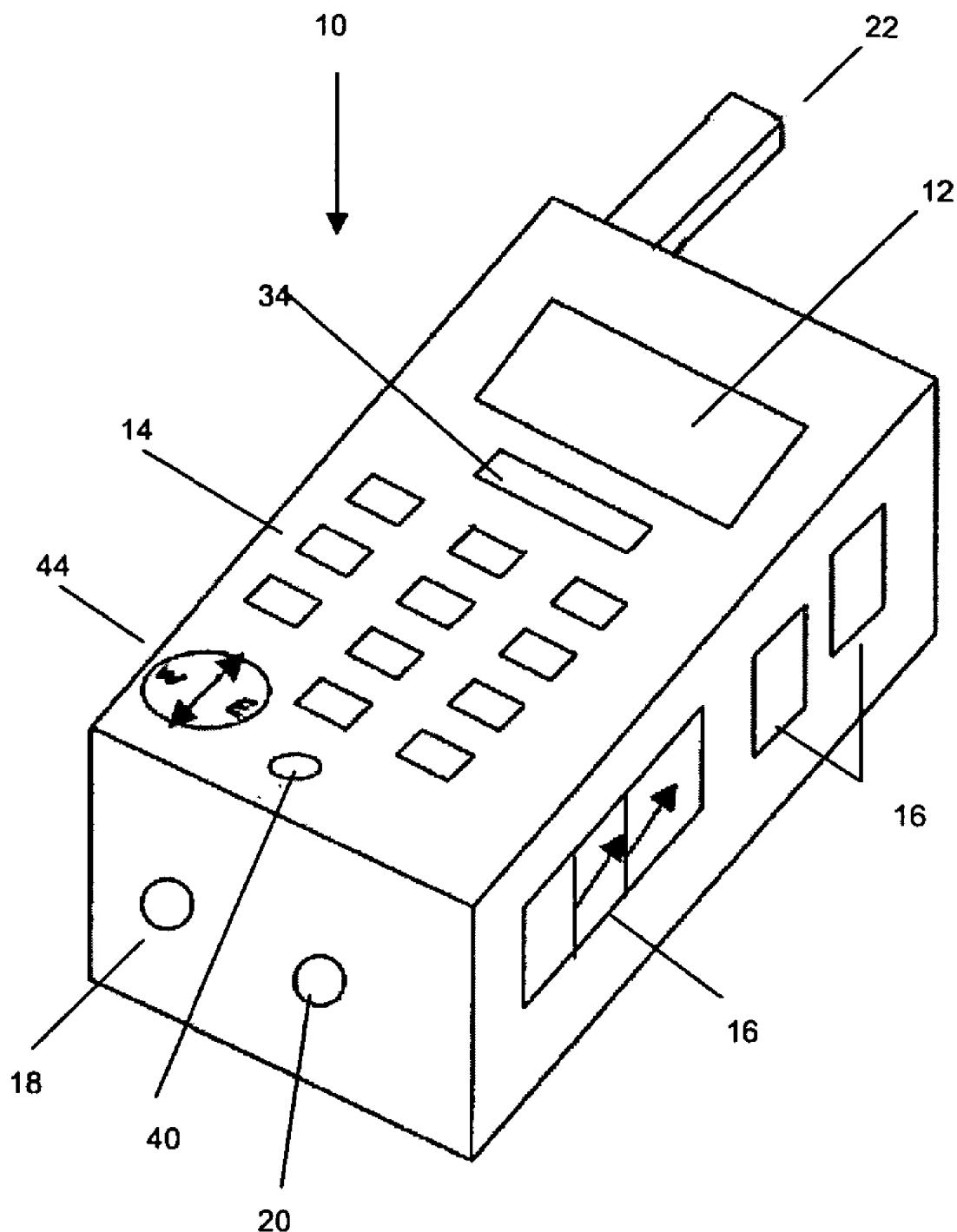


Fig. 165. Apparatus for multiple alerts (US2006083112)

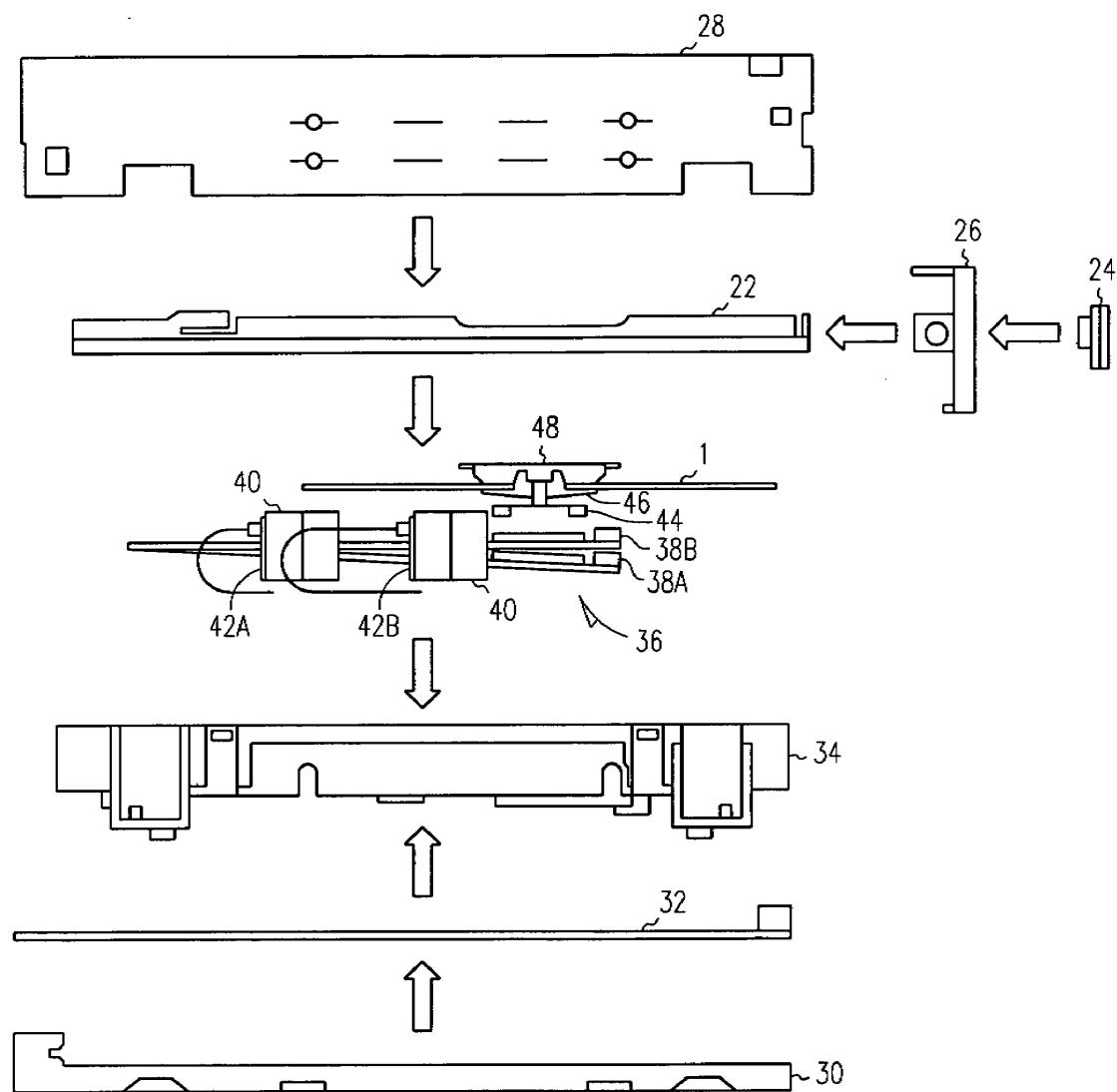


Fig. 166. Method and apparatus for preventing damage due to media faults in discs spinning at high speeds (US2005268310)

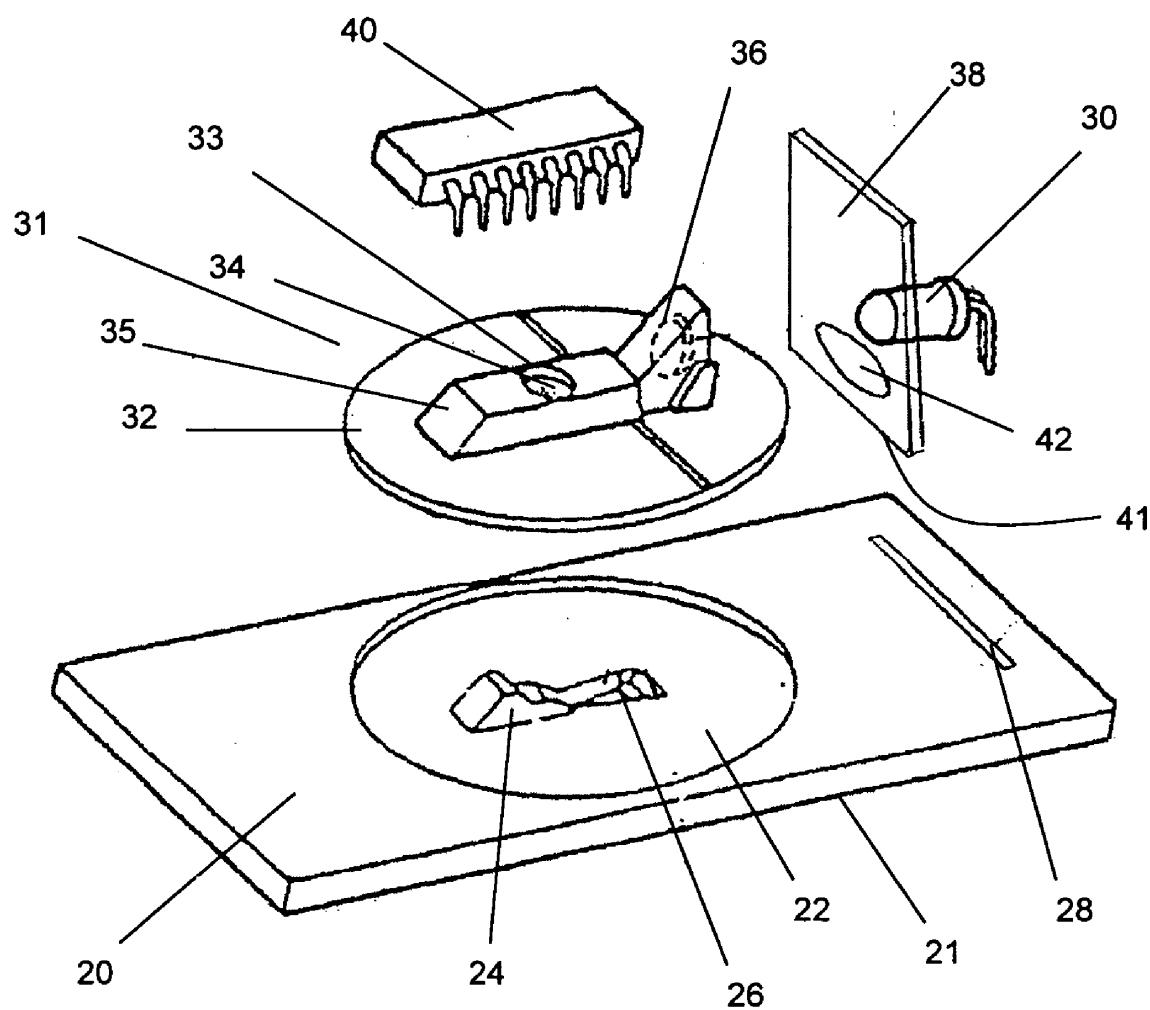


Fig. 167. Cursor control and input device with safety cut off (US2007070041)

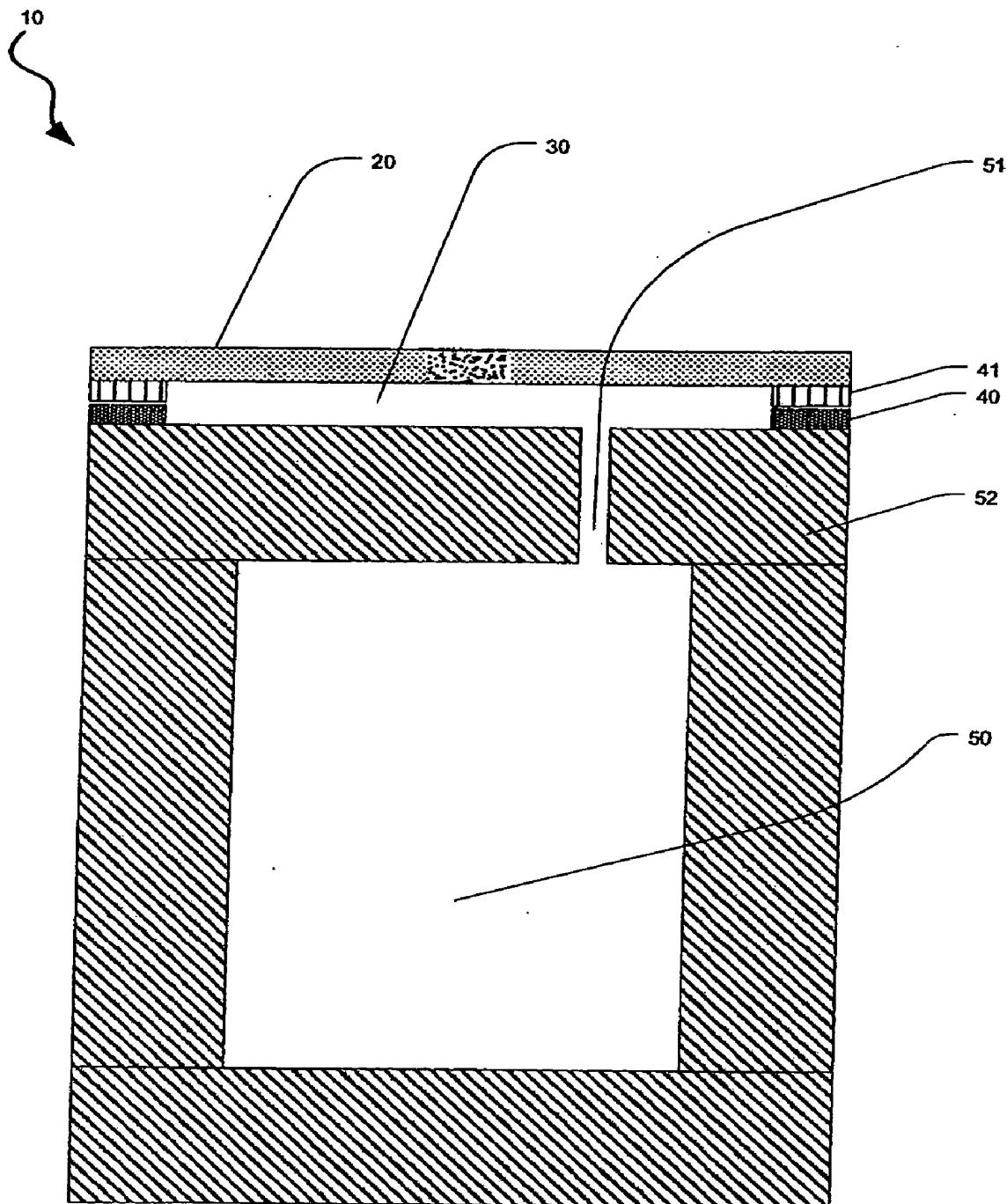


Fig. 168. Case (US2006087763)

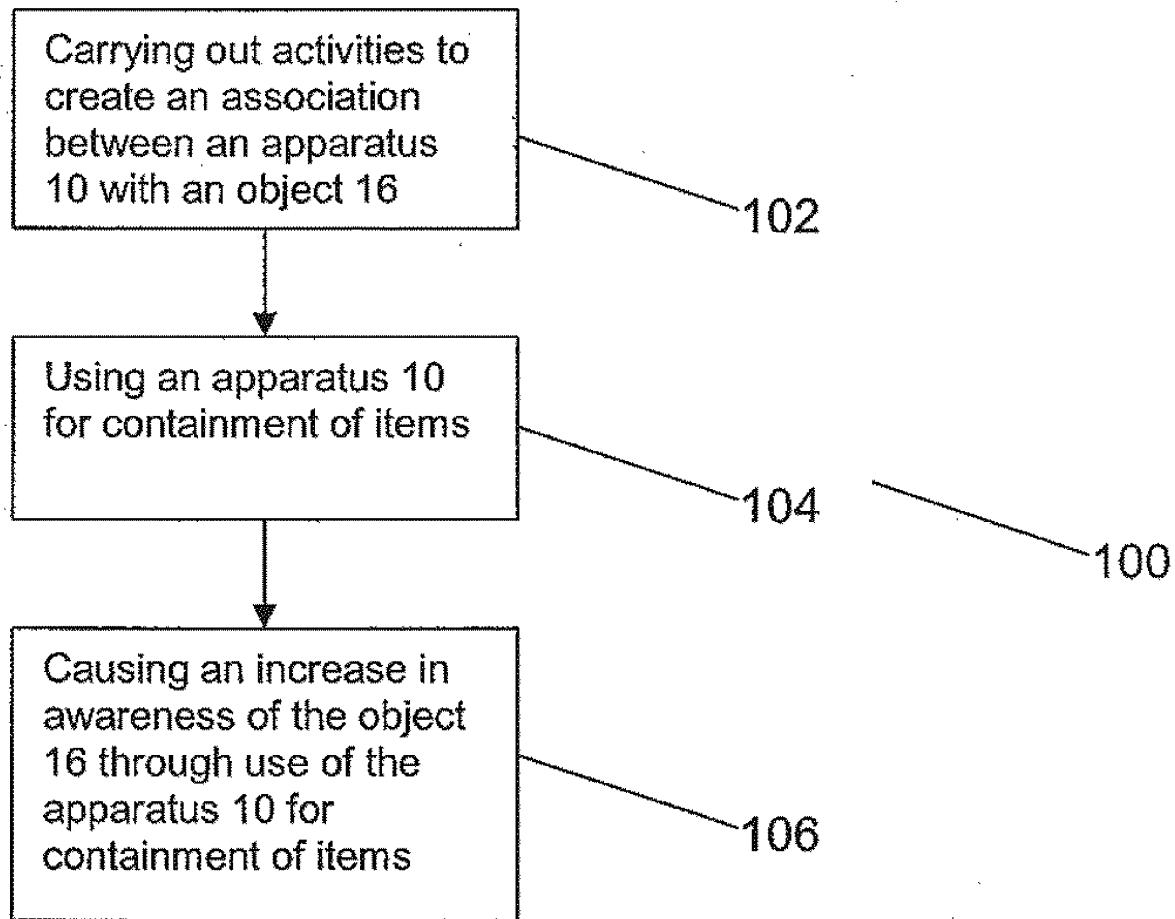


Fig. 169. Method and Apparatus for Marketing an Object (US2011041368)

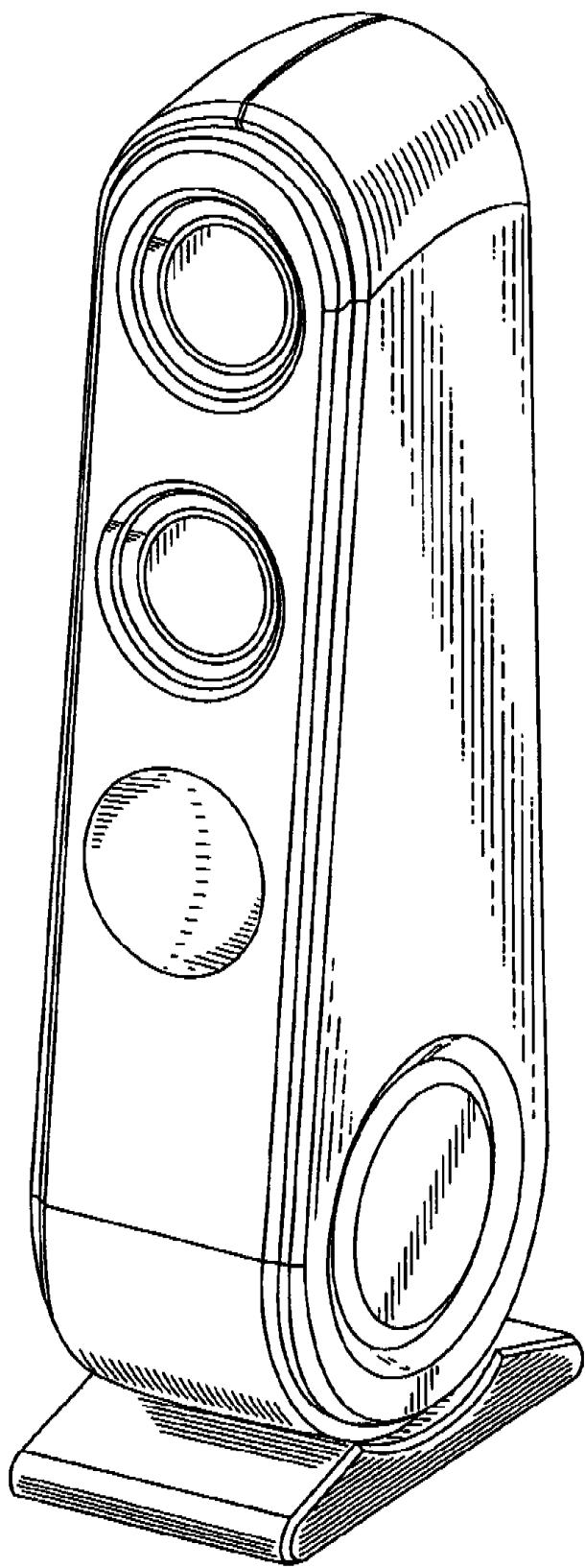


Fig. 170. Loudspeaker unit (USD507559)

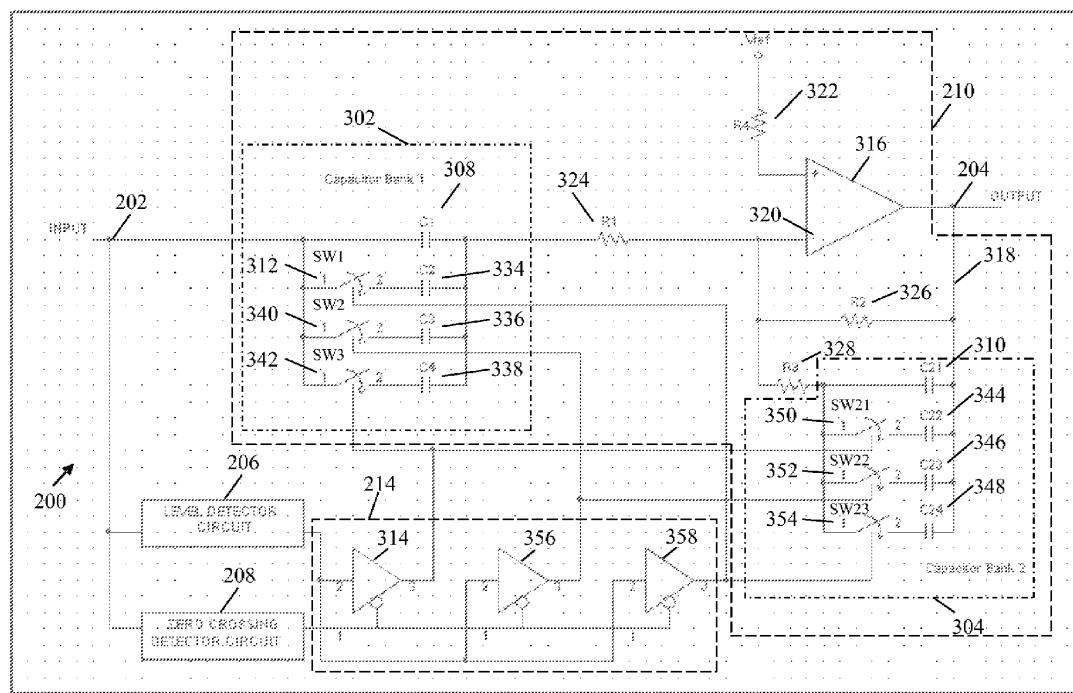


Fig. 171. System and method for dynamic bass frequency control in association with a dynamic low frequency control circuit having compression control (US8194887)

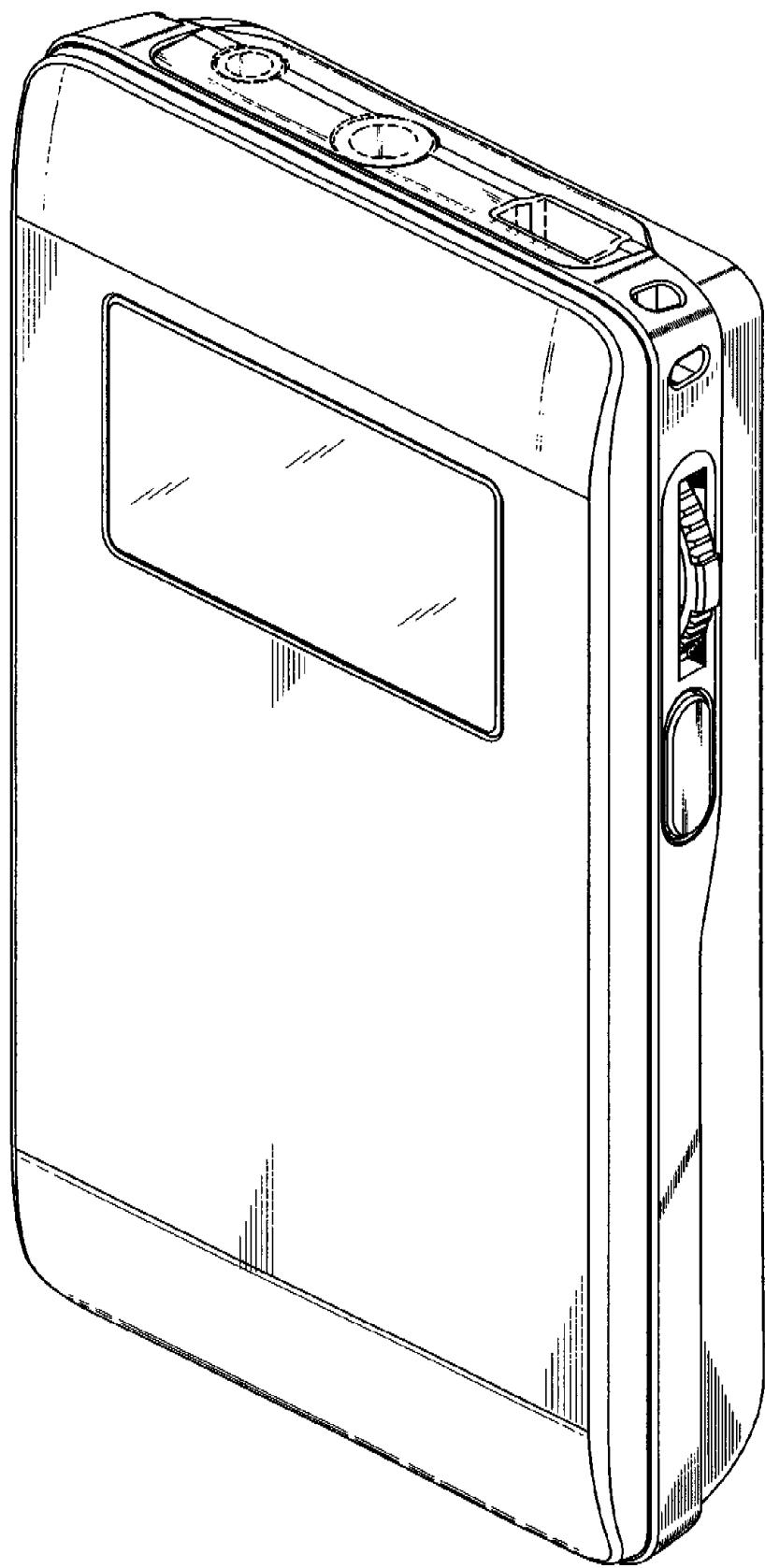


Fig. 172. Media player (USD520515)

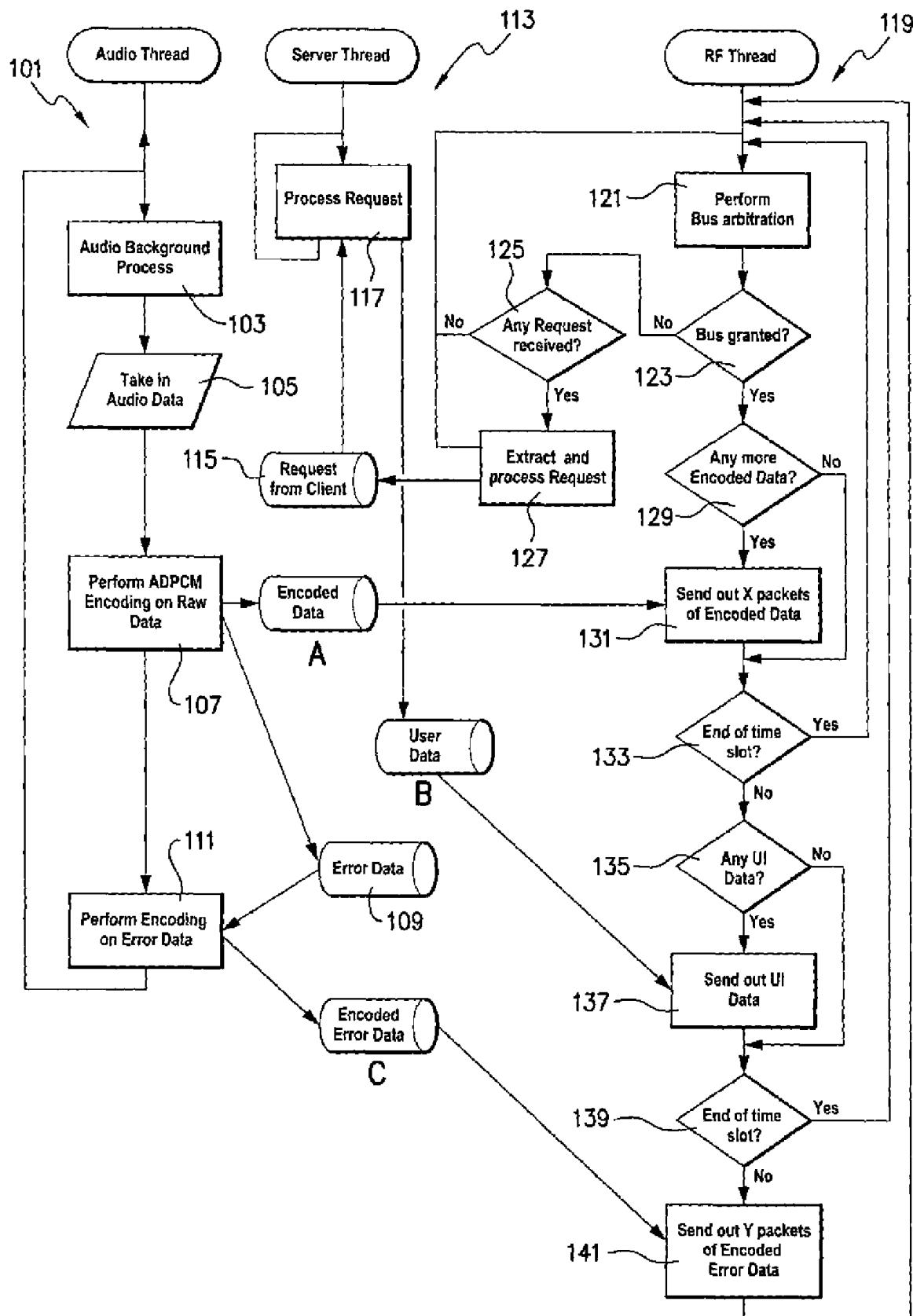


Fig. 173. Real time optimization over a shared communication channel (US7554989)

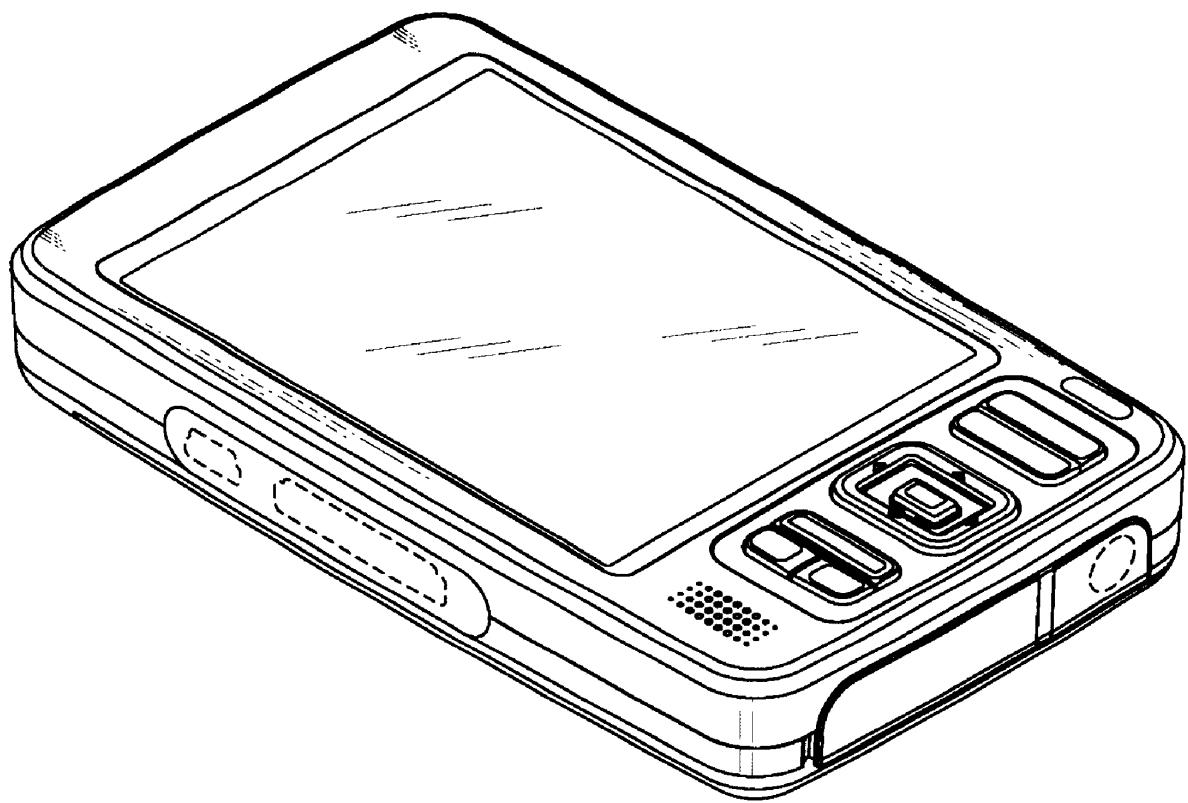


Fig. 174. Media player (USD523445)

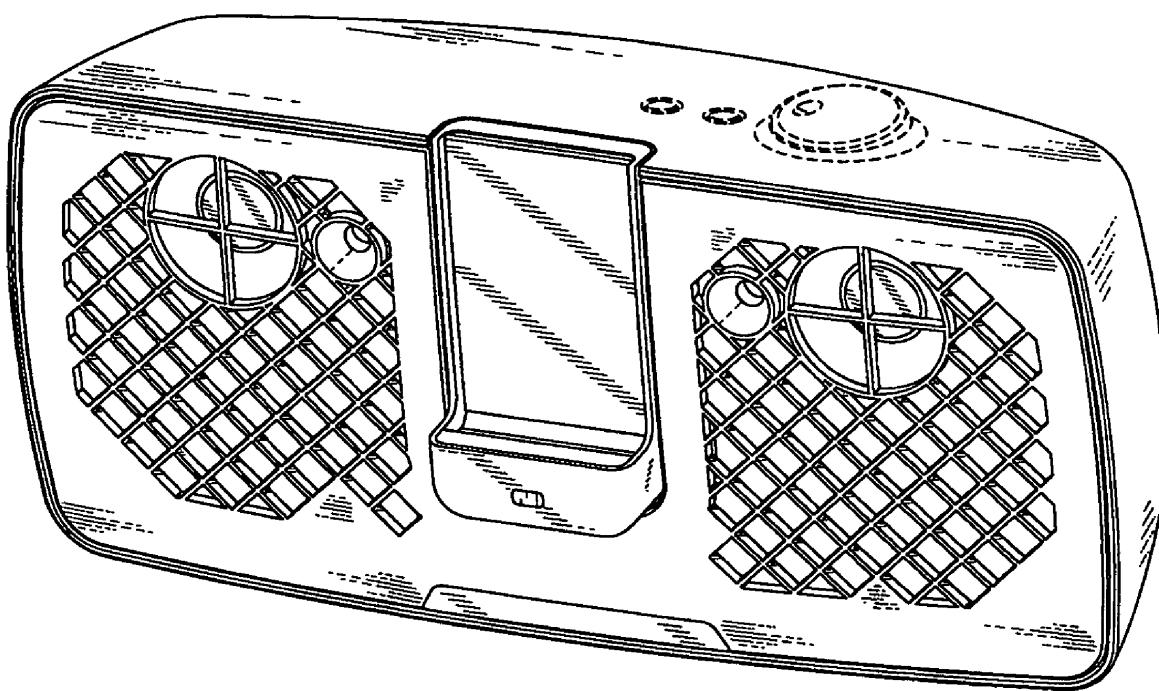


Fig. 175. Loudspeaker and cradle for electronic device (USD553611)

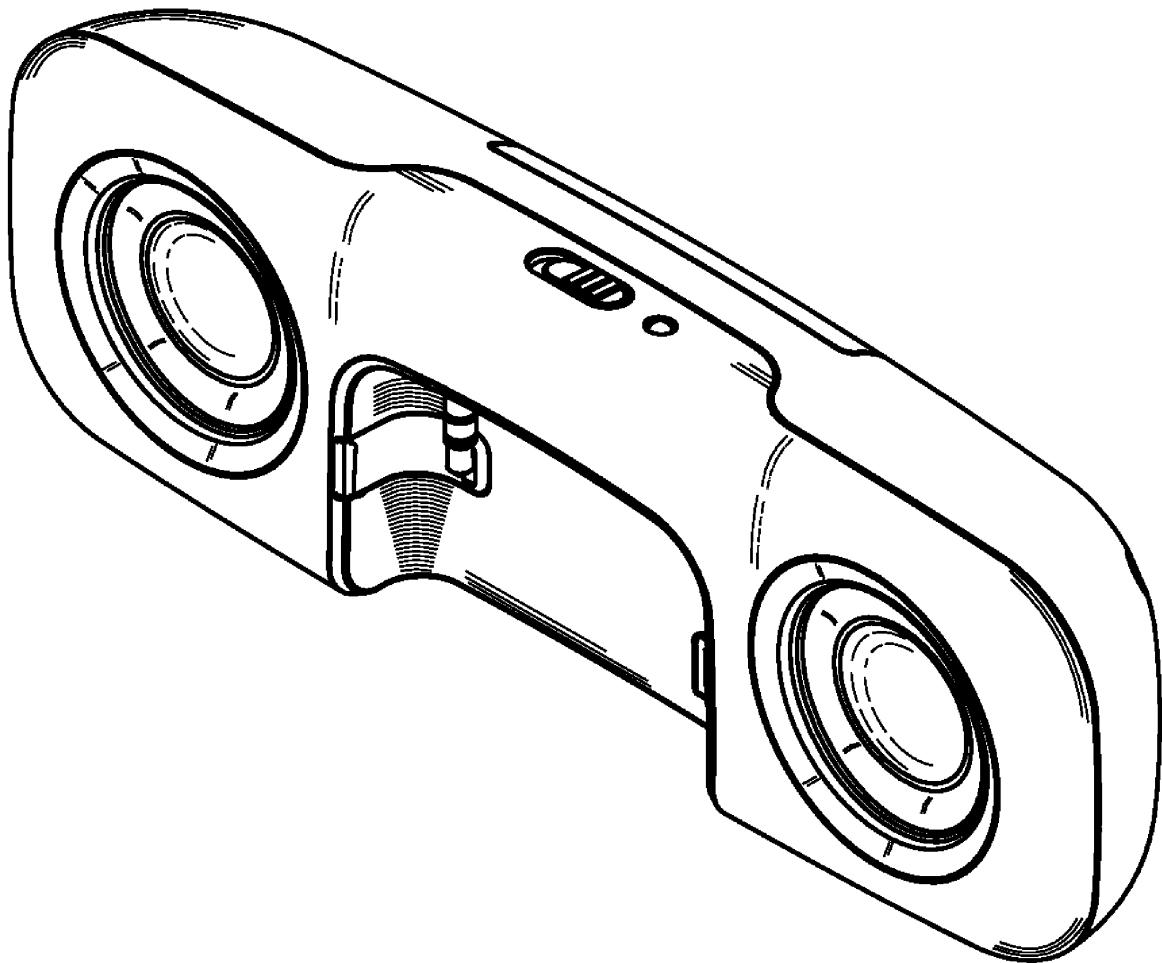


Fig. 176. Loudspeaker and cradle for electronic device (USD589026)

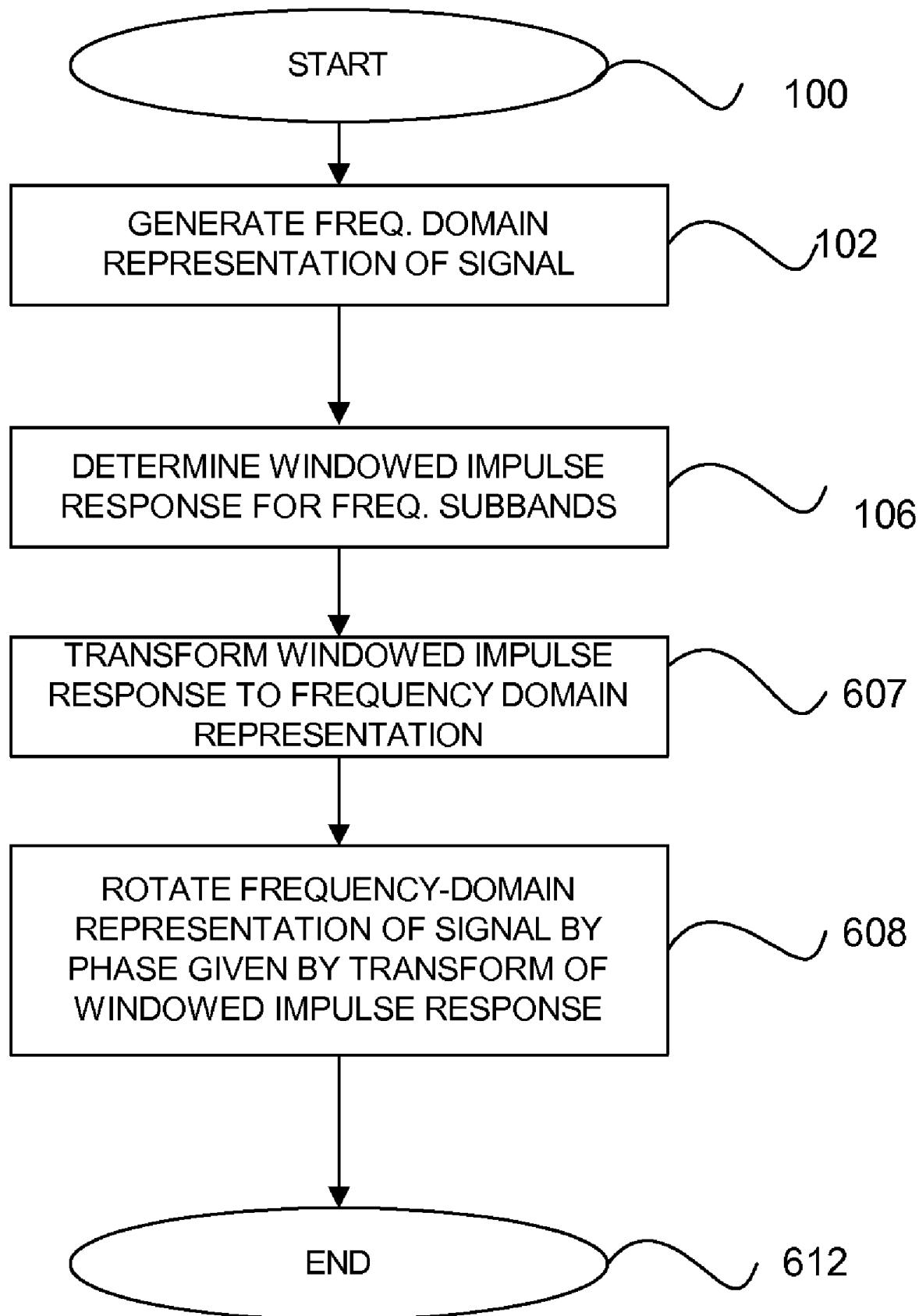


Fig. 177. Robust and efficient frequency domain decorrelation method (US8374355)

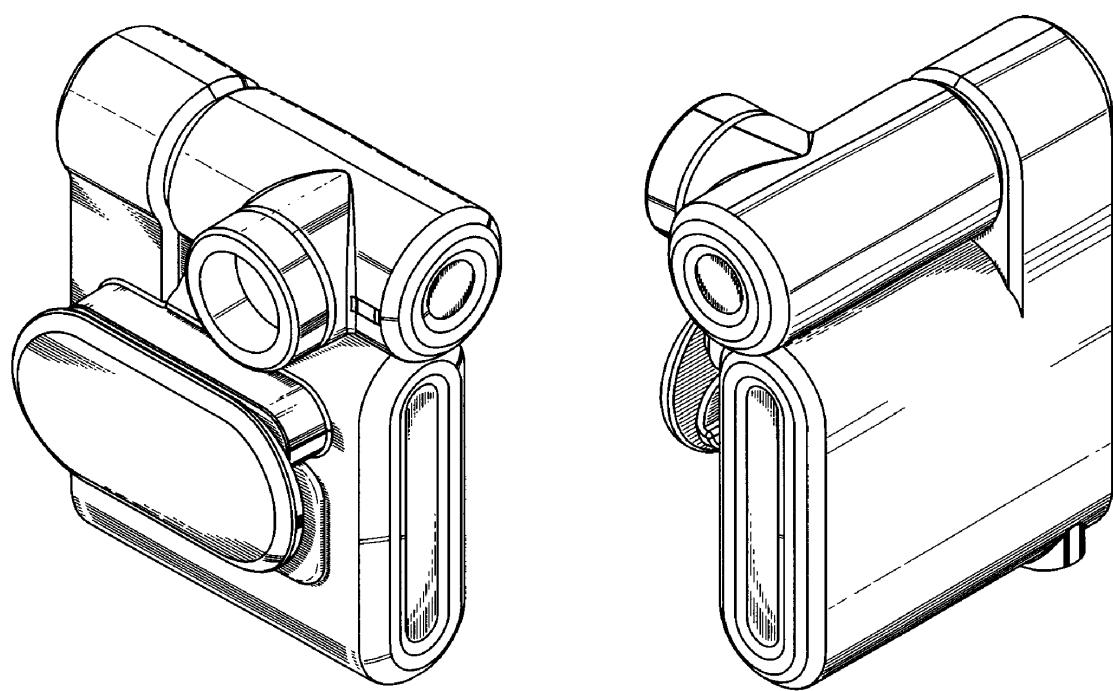


Fig. 178. Camera (USD523457)

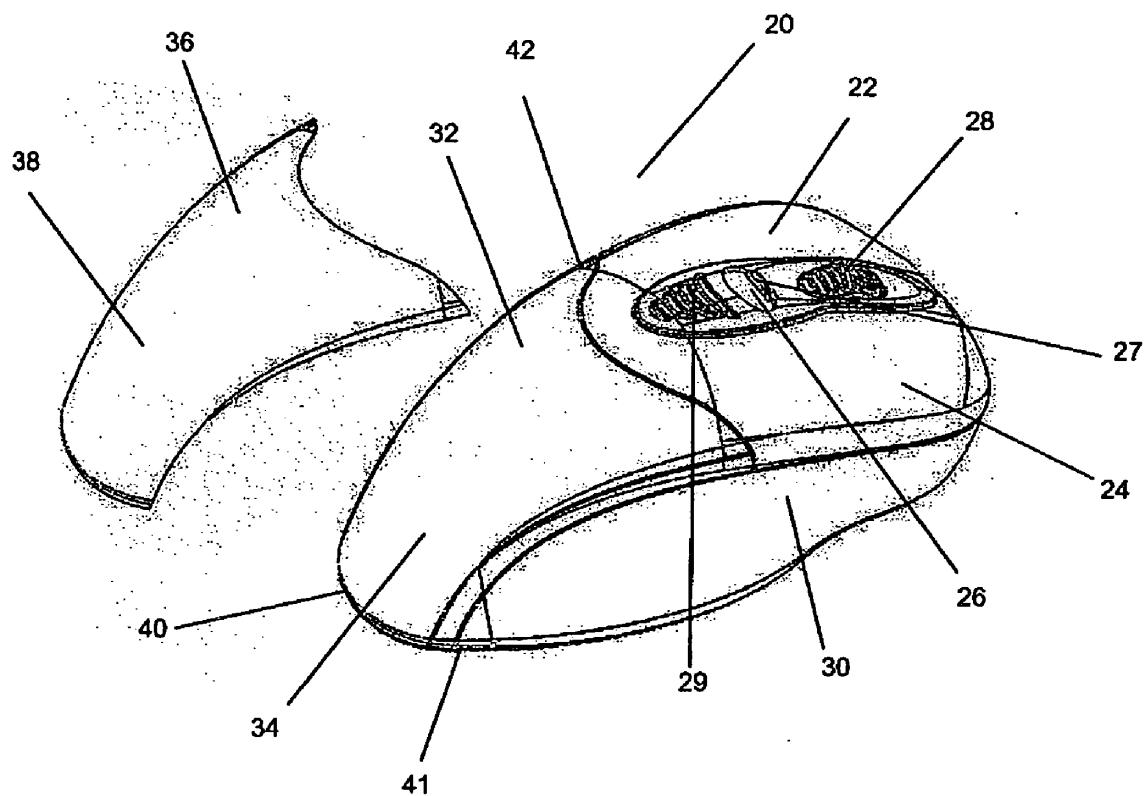


Fig. 179. Modifiable mouse with a biased switch and a method for modifying a mouse (US2008007525)

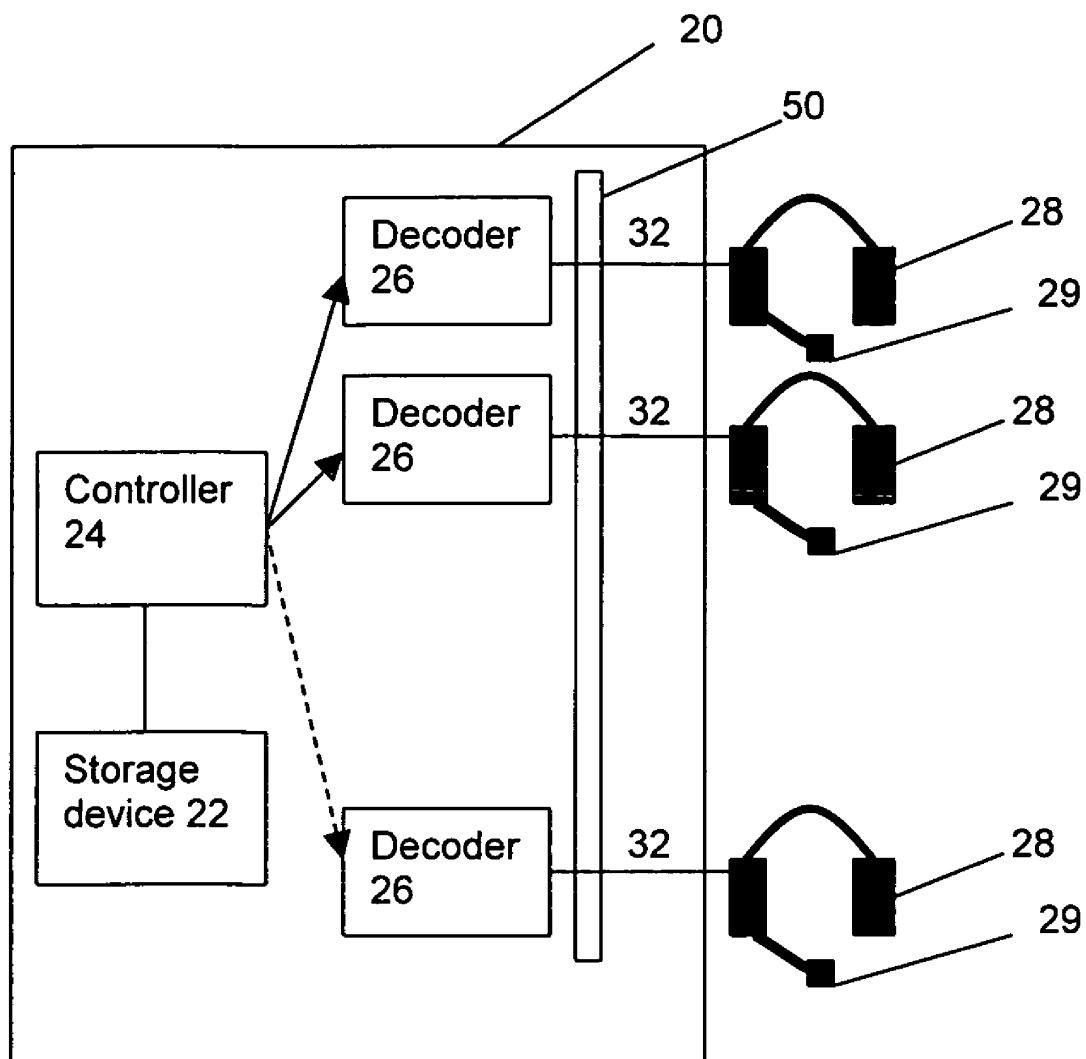


Fig. 180. Portable media player with a plurality of audio signal outputs (US2007053533)

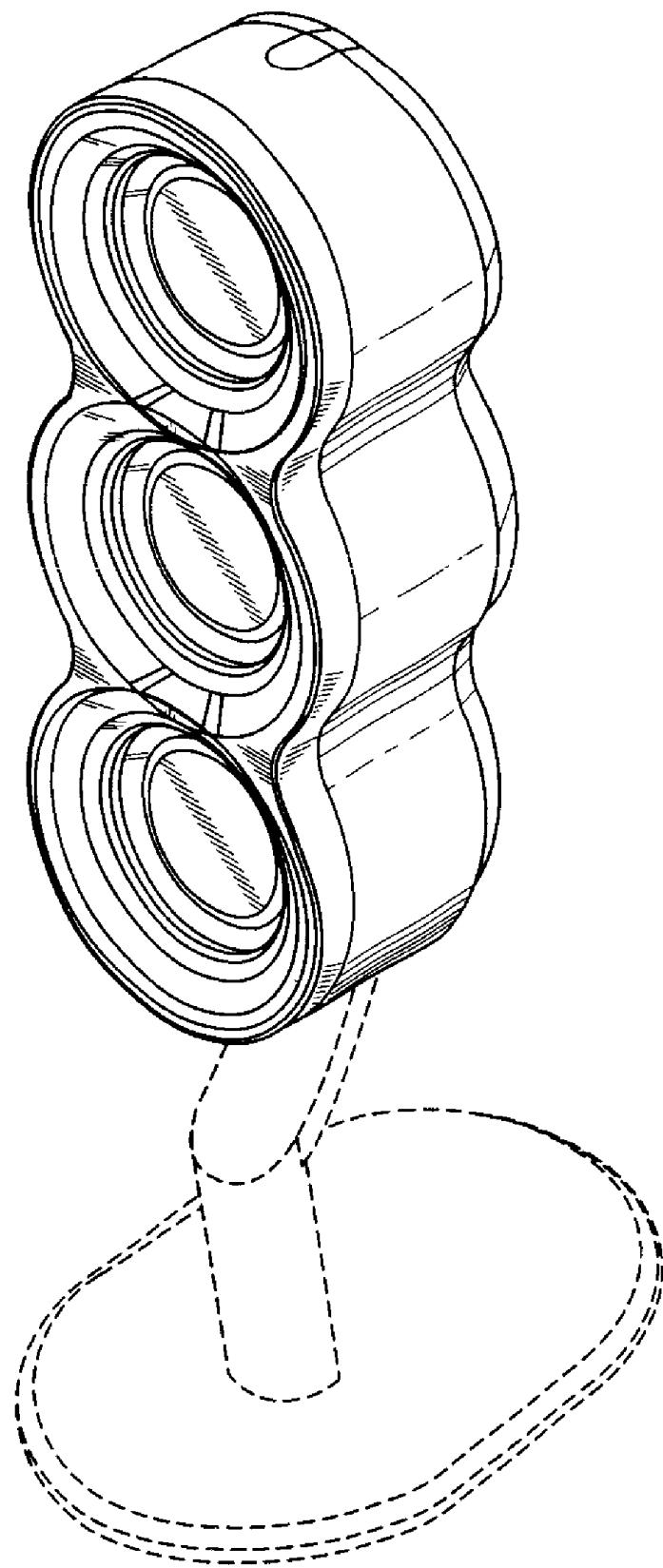


Fig. 181. Loudspeaker unit (USD509498)

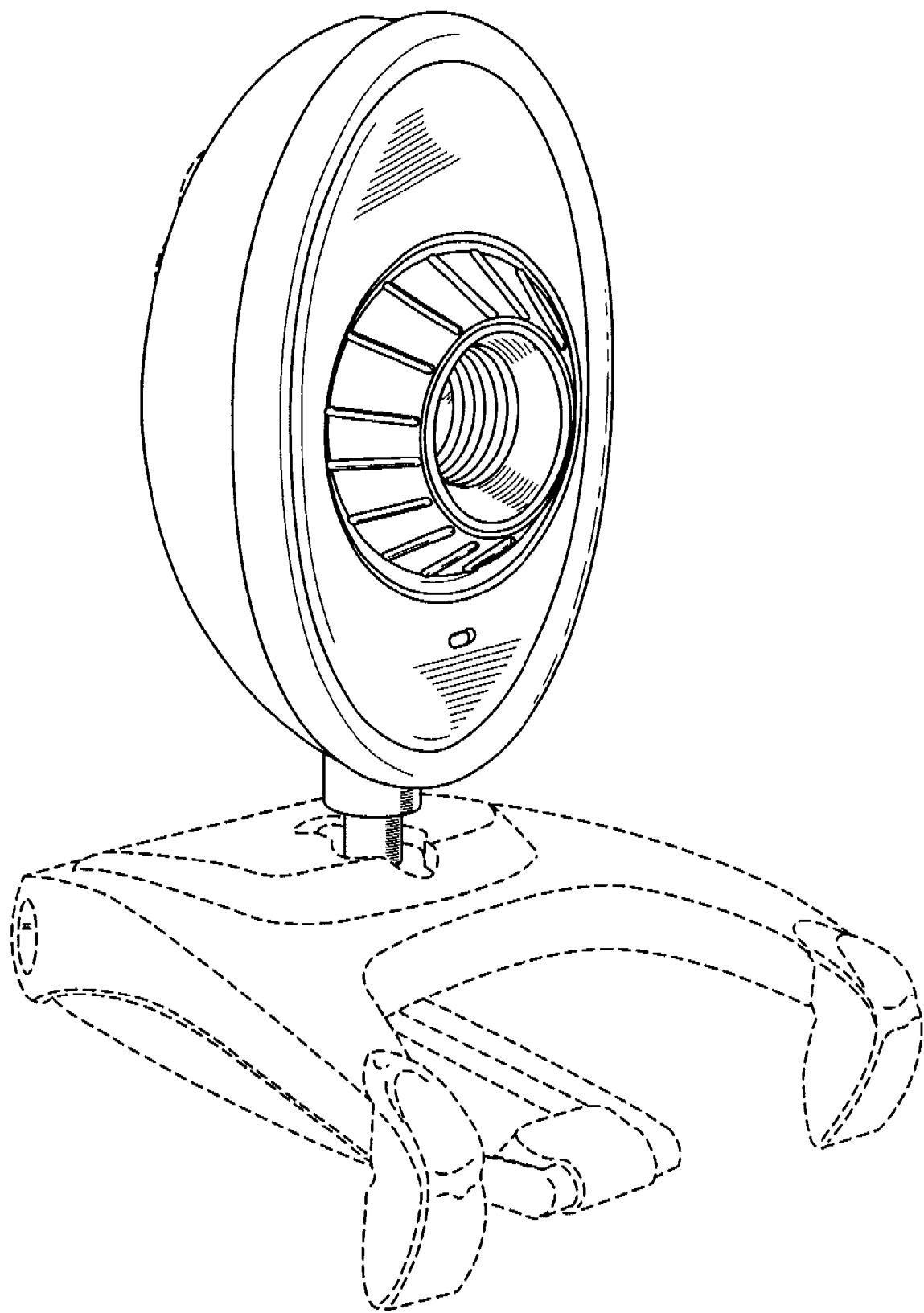


Fig. 182. Camera (USD523050)

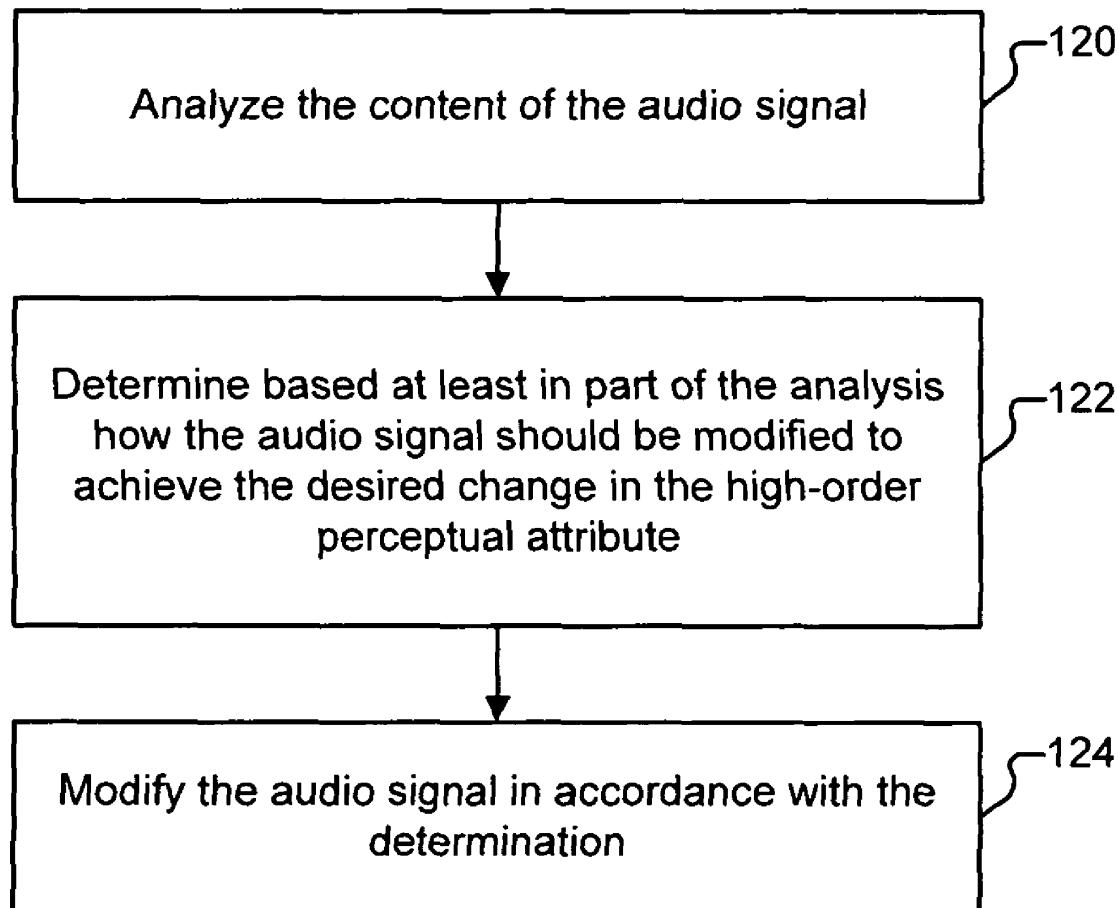


Fig. 183. Dynamic modification of a high order perceptual attribute of an audio signal (US8086448)

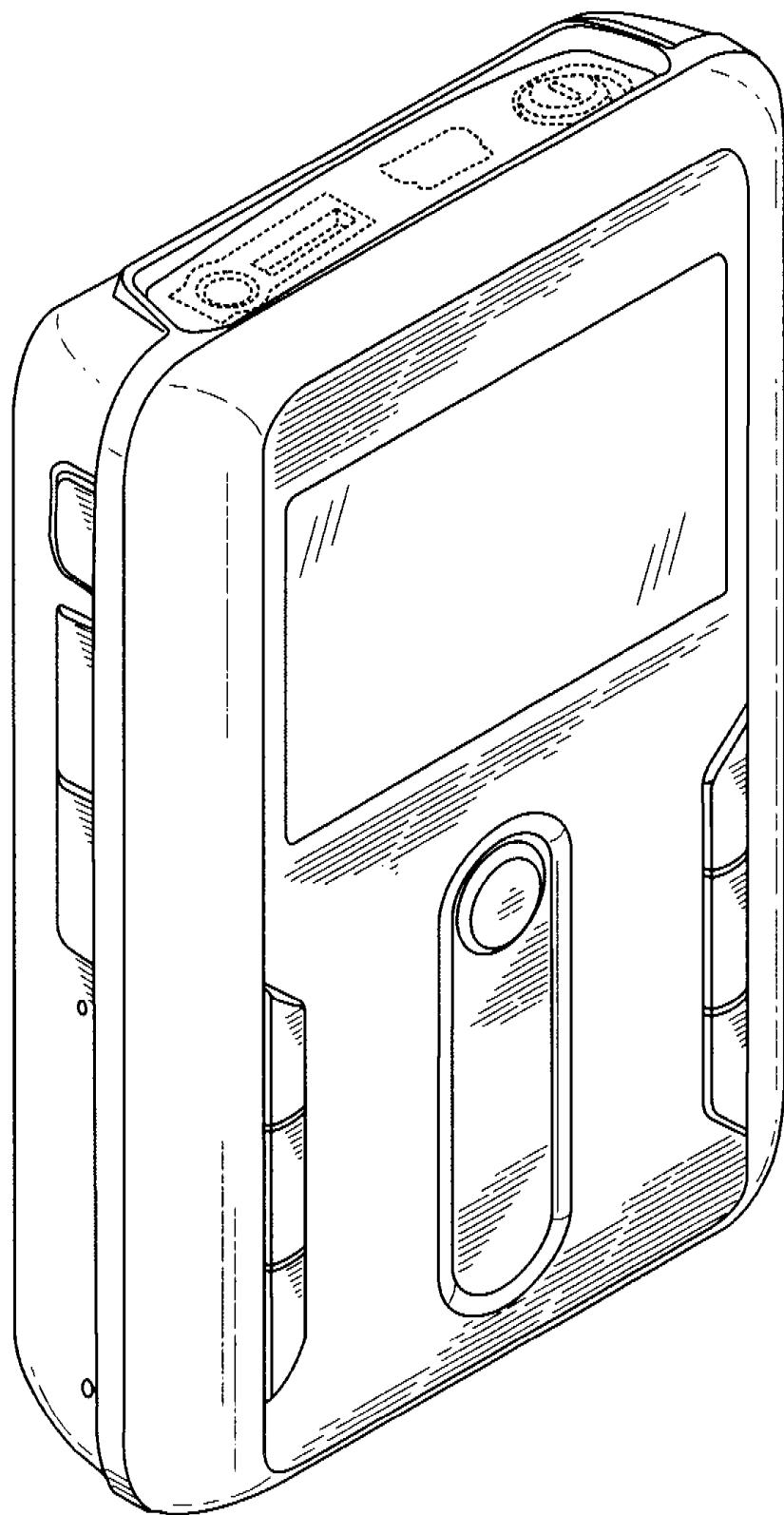


Fig. 184. Media player (USD507277)

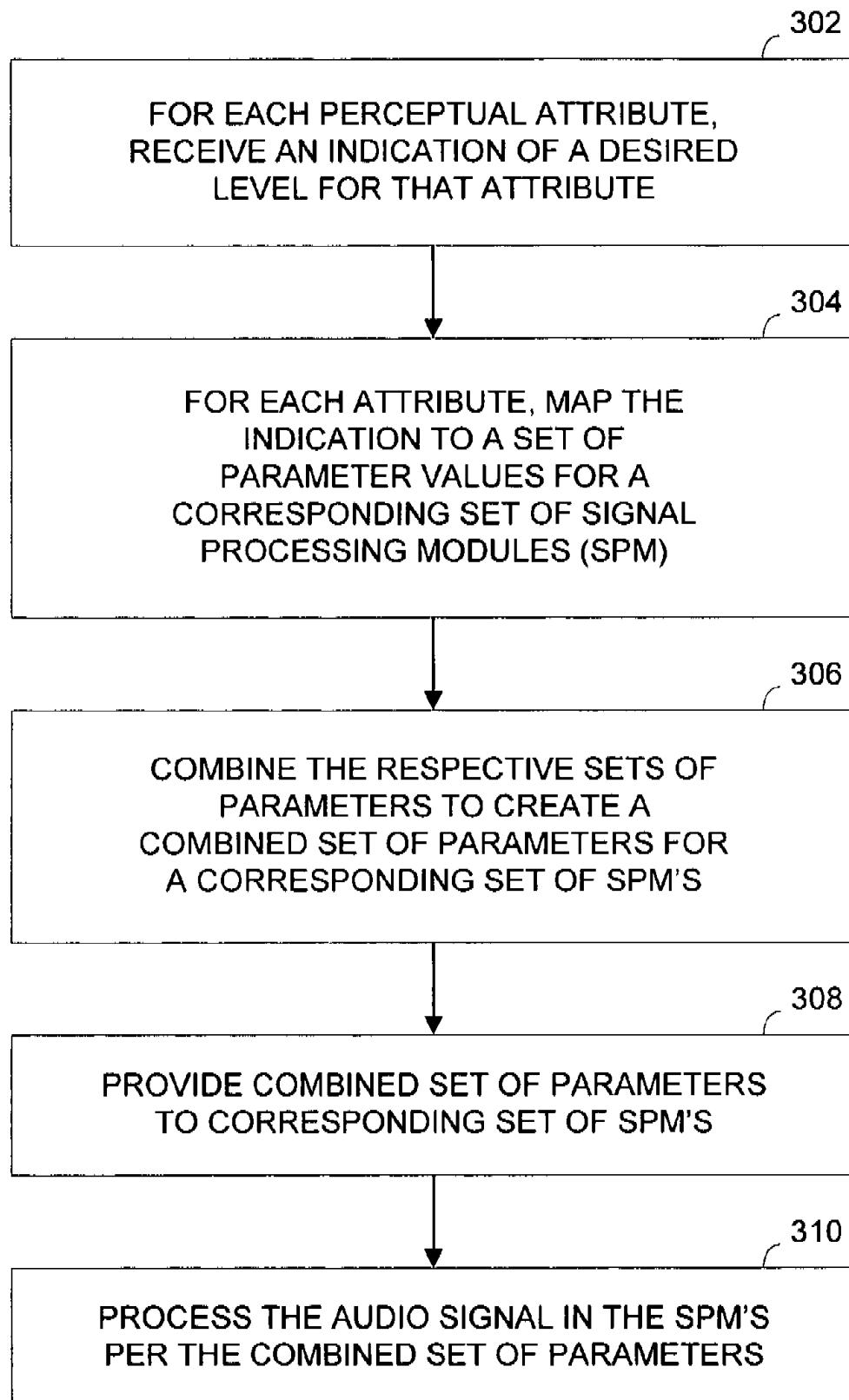


Fig. 185. Mapping control signals to values for one or more internal parameters (US8045732)

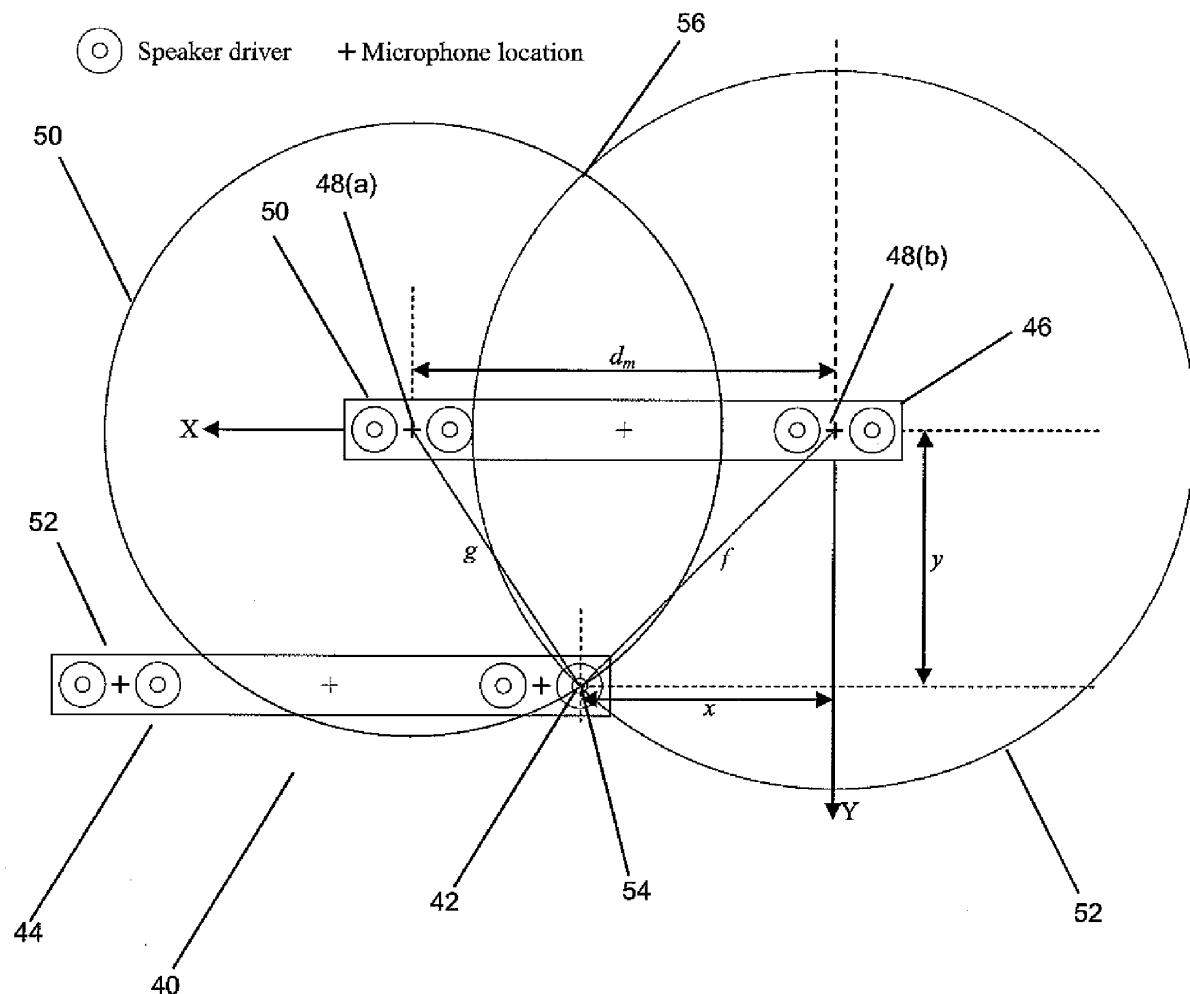


Fig. 186. Methods for locating either at least one sound generating object or a microphone using audio pulses (US2011007911)

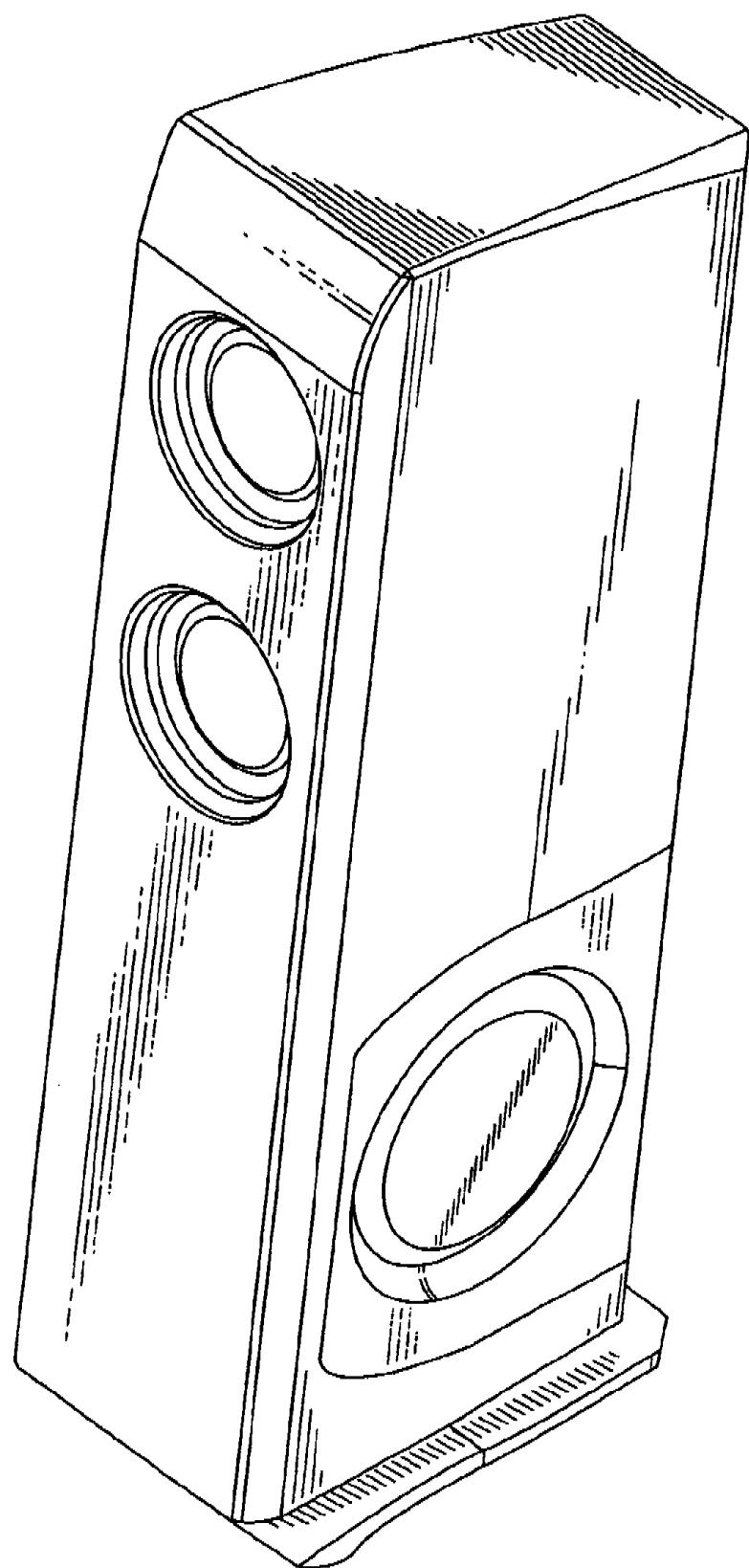


Fig. 187. Loudspeaker unit (USD506745)

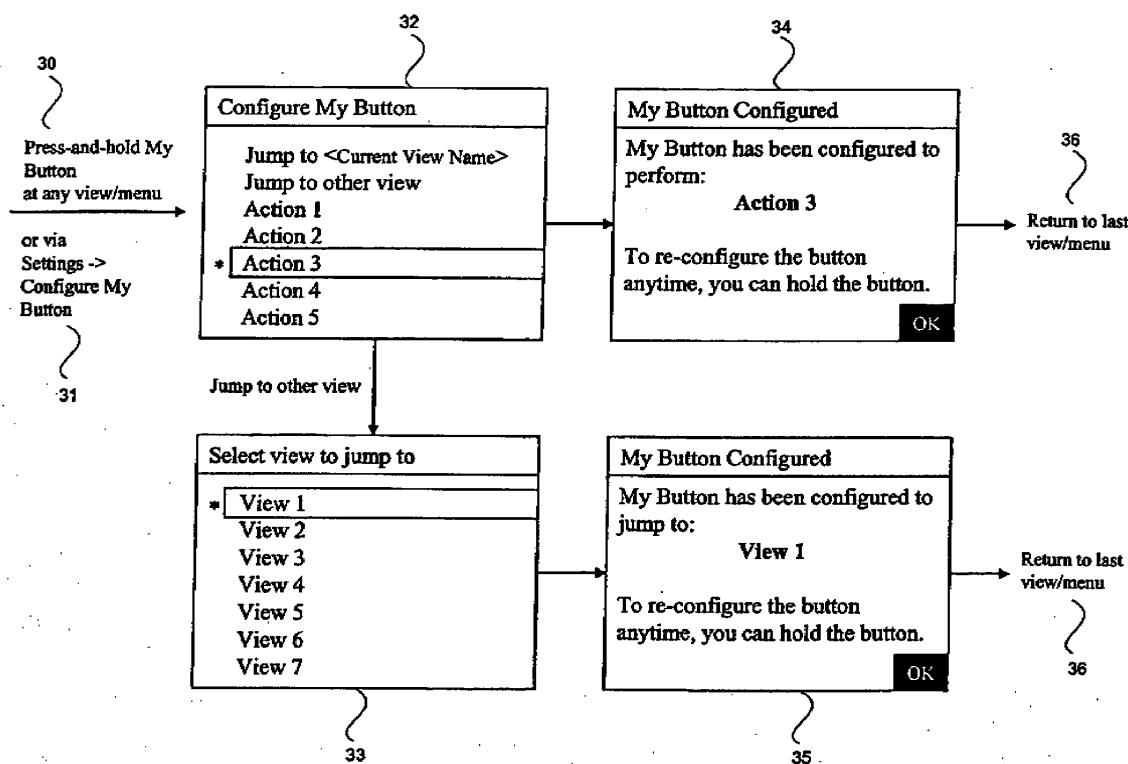


Fig. 188. User configurable button (US2007040808)

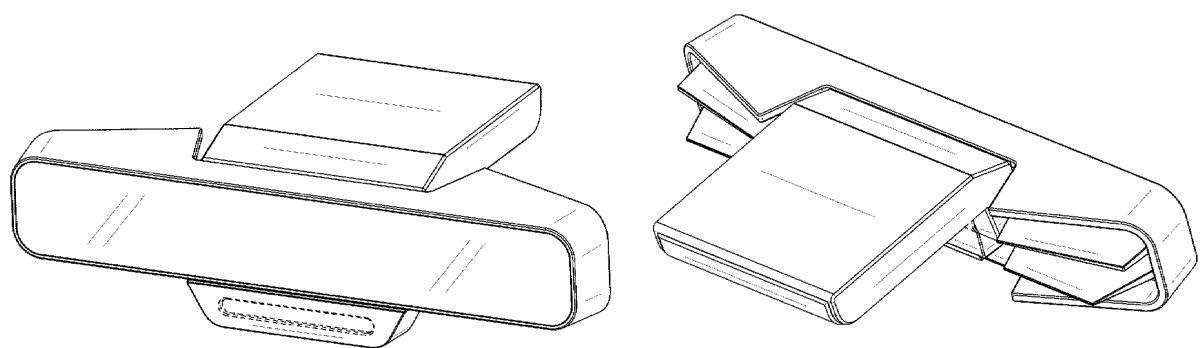


Fig. 189. Camera (USD815171)

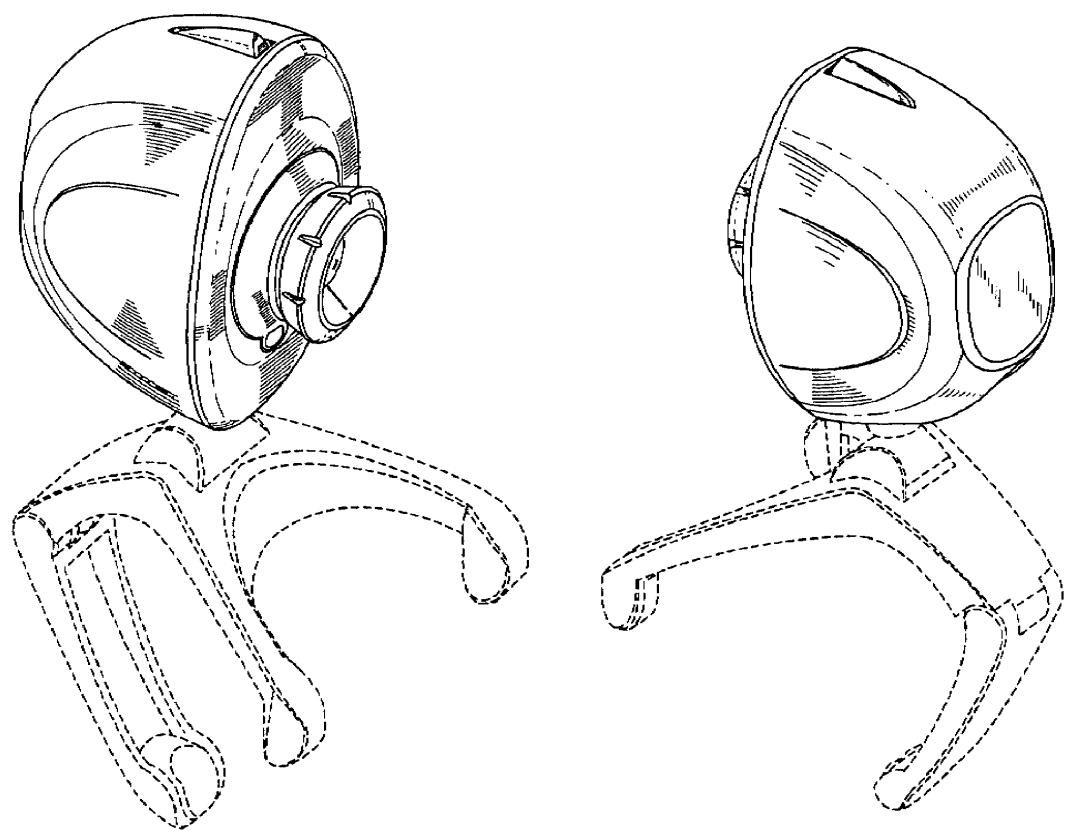


Fig. 190. Camera (USD507007)

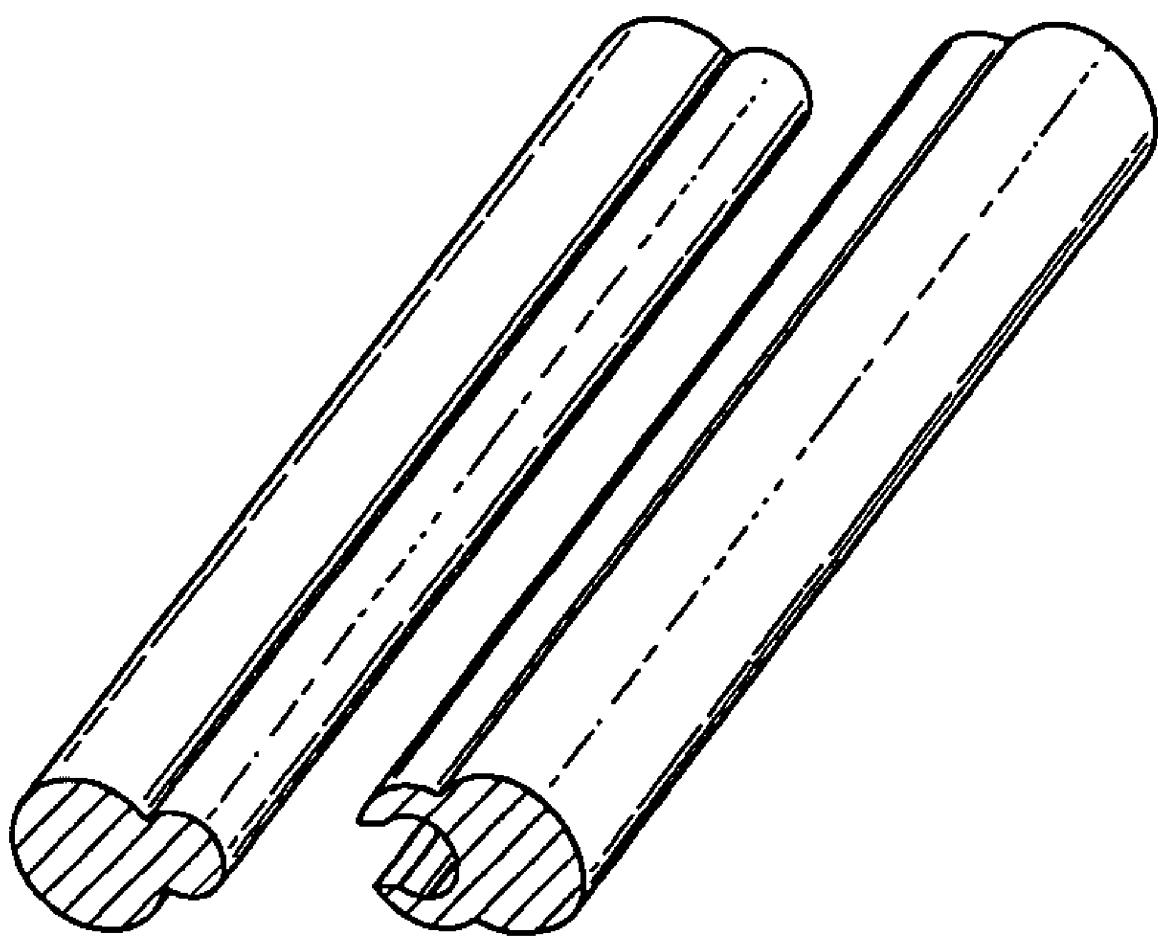


Fig. 191. Cable set (USD573101)

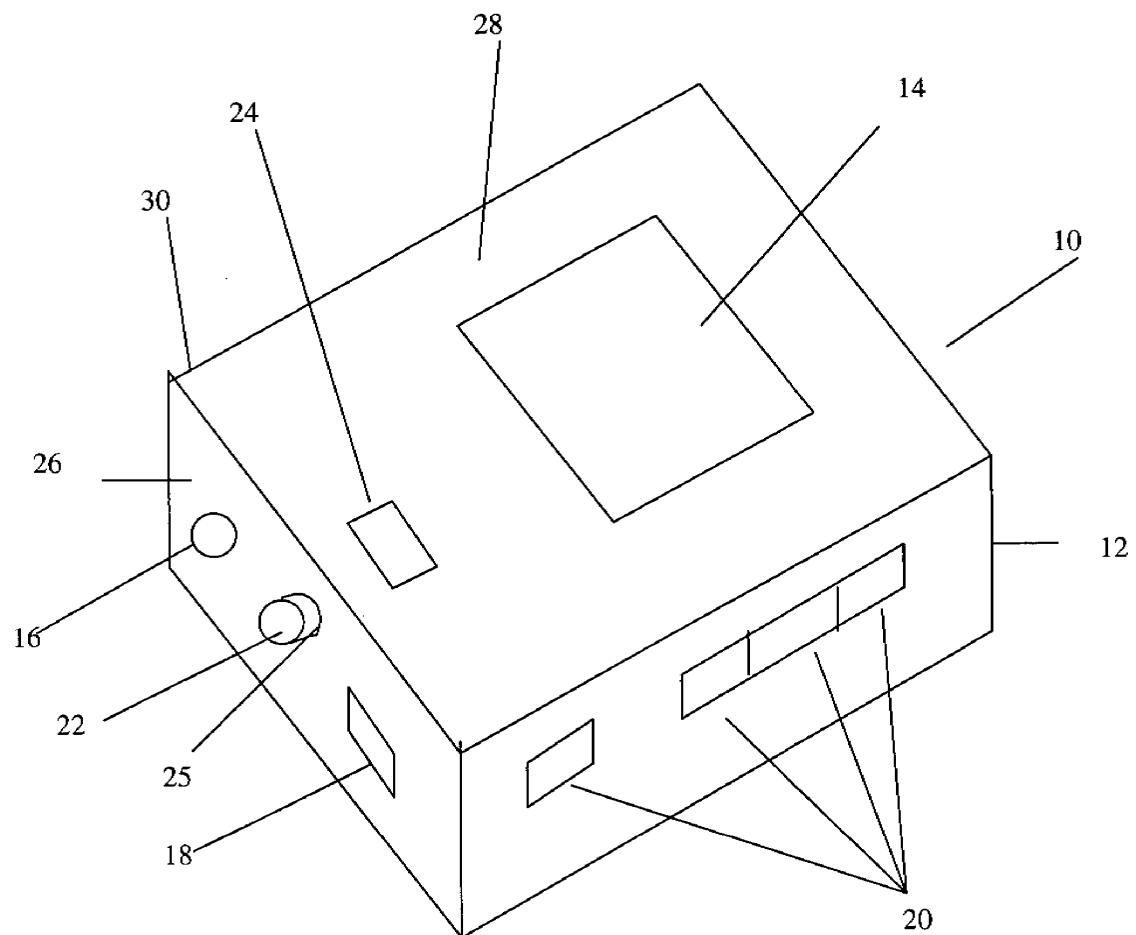


Fig. 192. Memory based audio player with illumination (US2006079974)

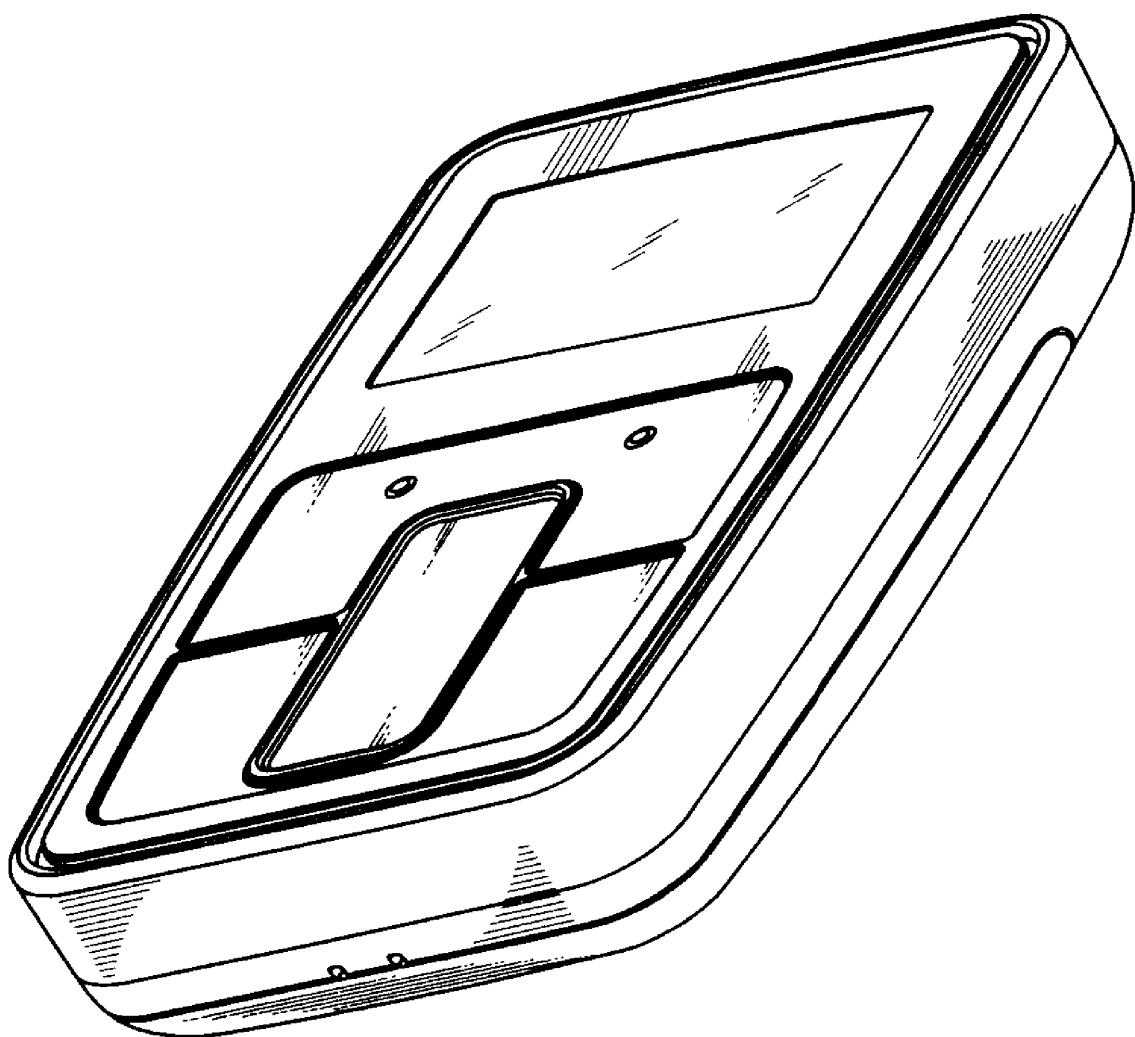


Fig. 193. Media player (USD517088)

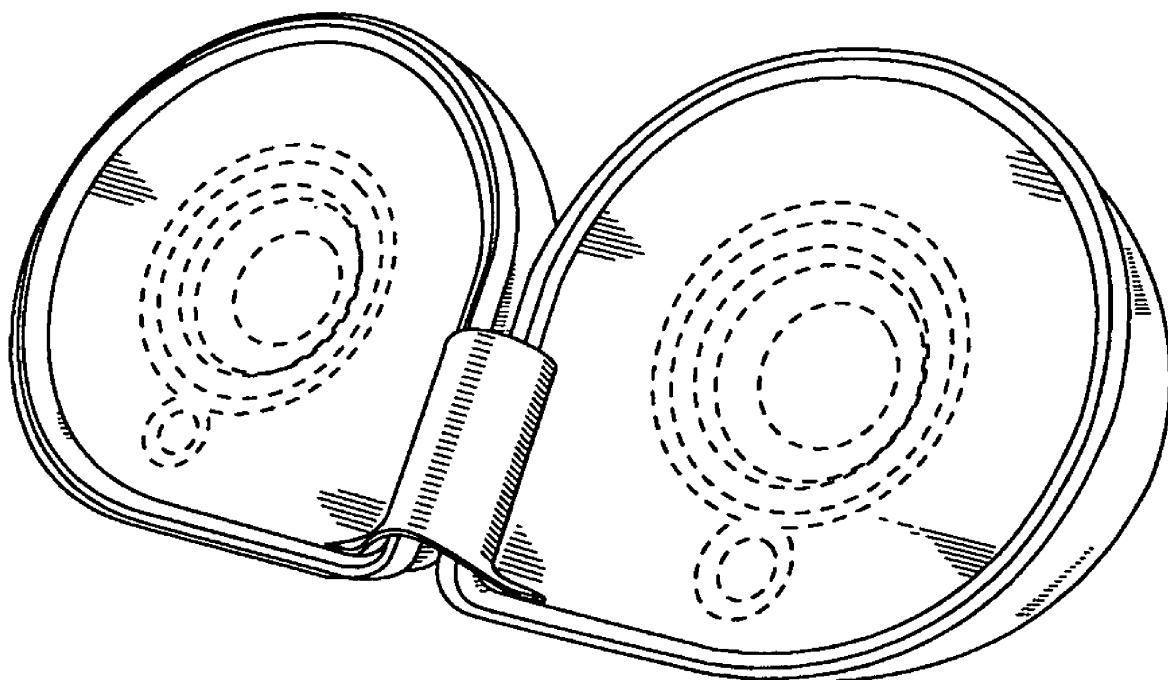


Fig. 194. Portable speakers (USD549219)

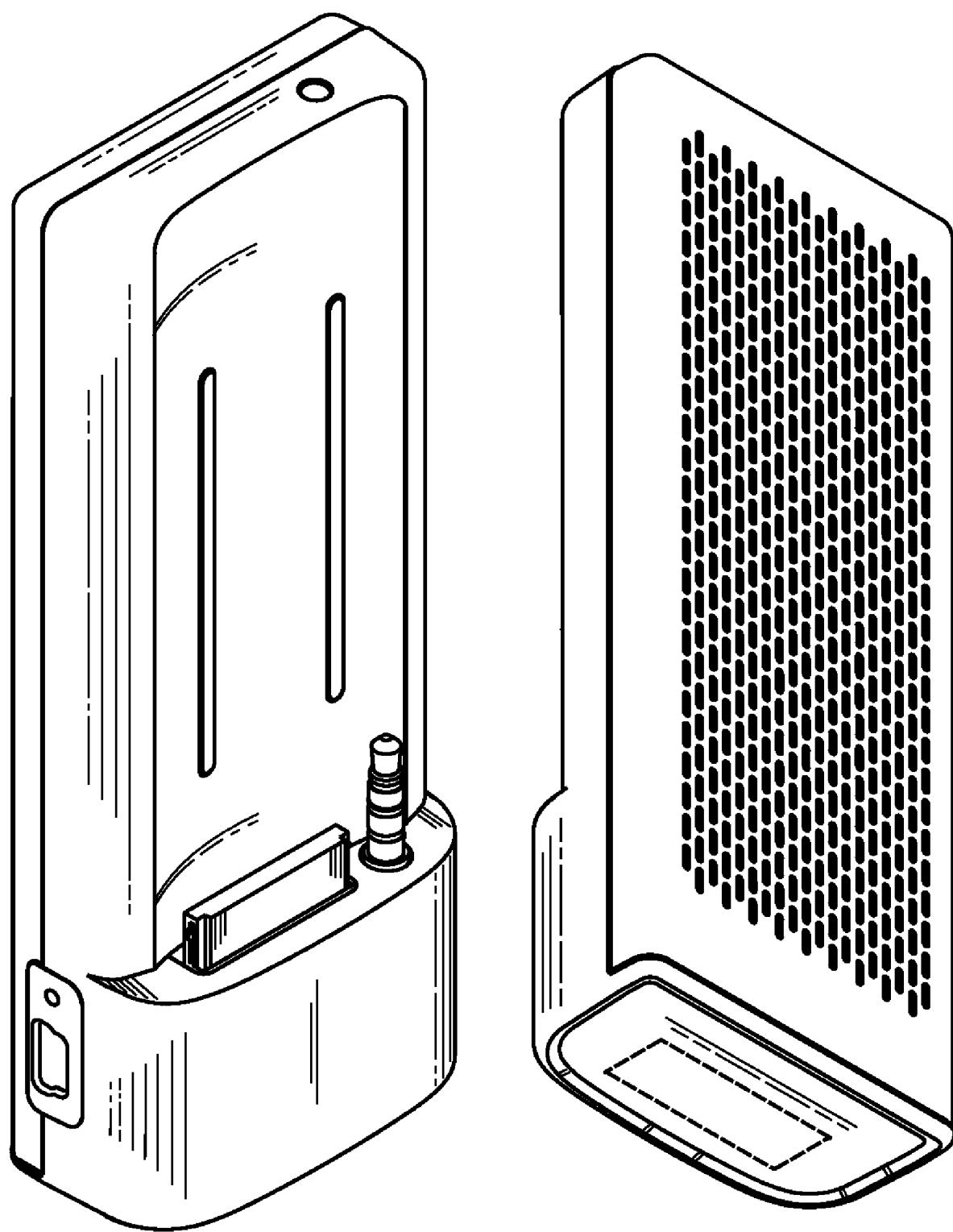


Fig. 195. Loudspeaker (USD611930)

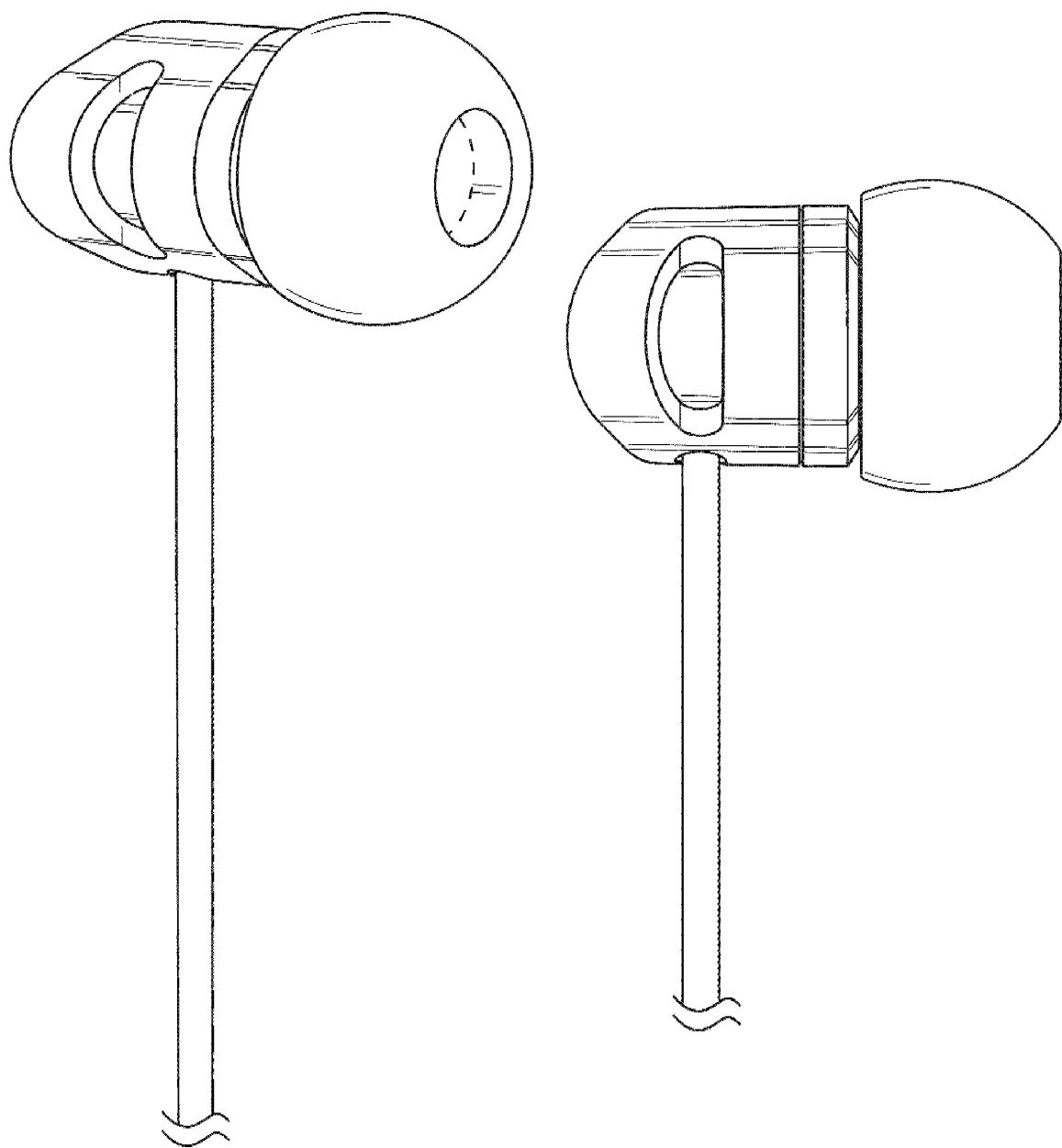


Fig. 196. Earphone (USD709482)

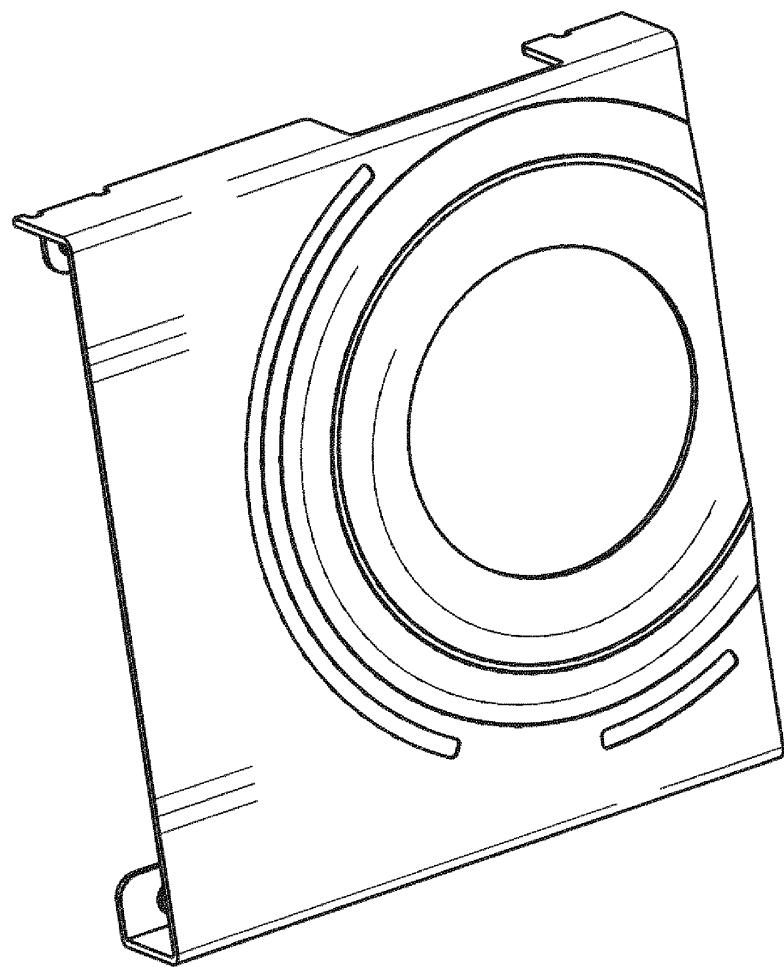


Fig. 197. Shield (USD694241)

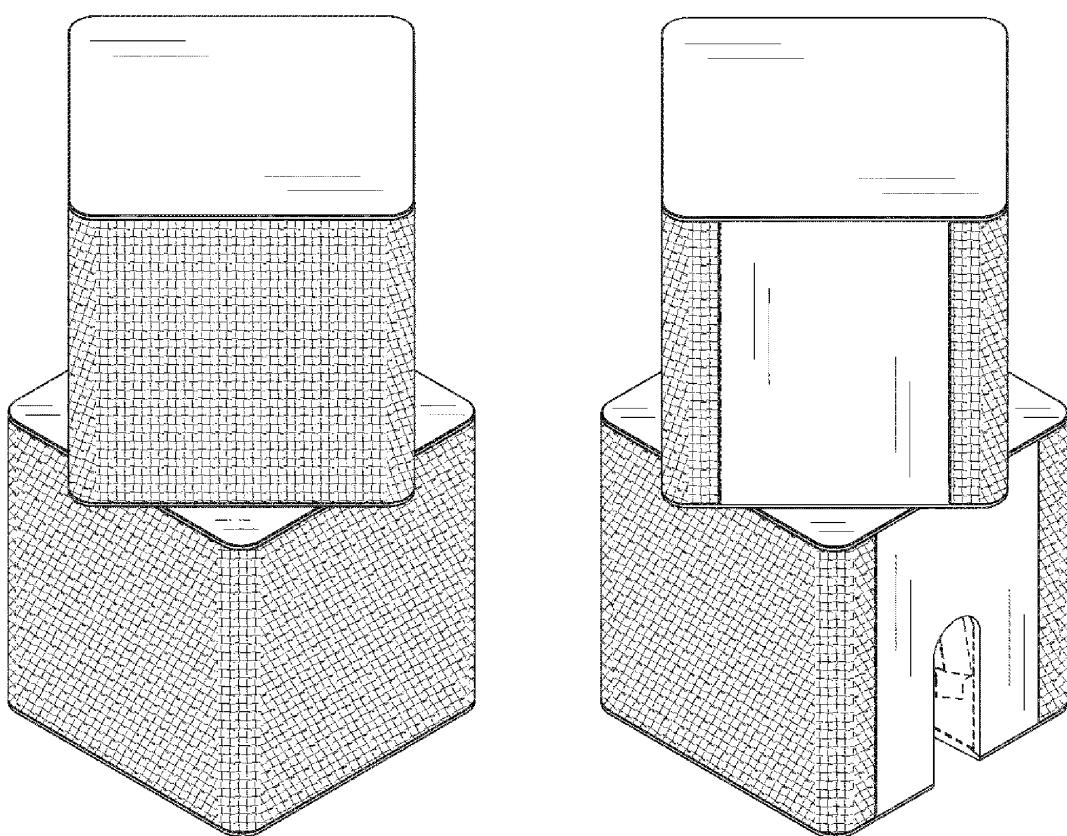


Fig. 198. Speaker (USD727294)

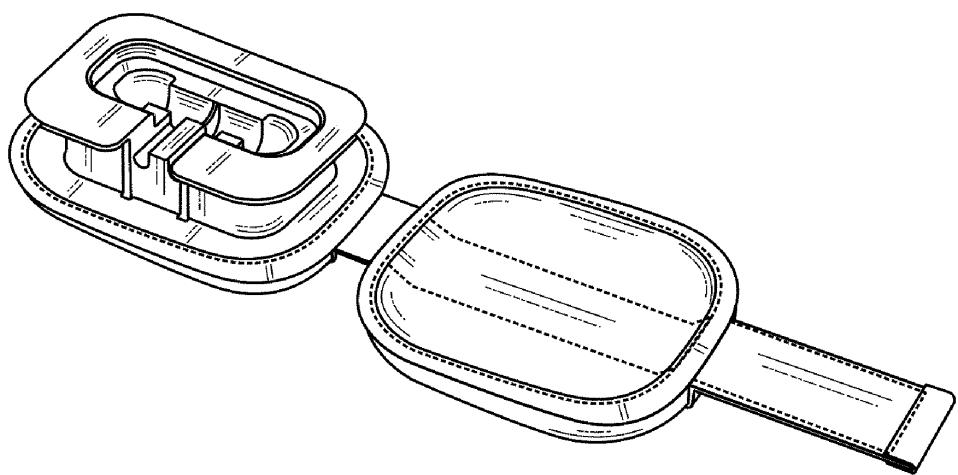


Fig. 199. Earphone pouch (USD658875)

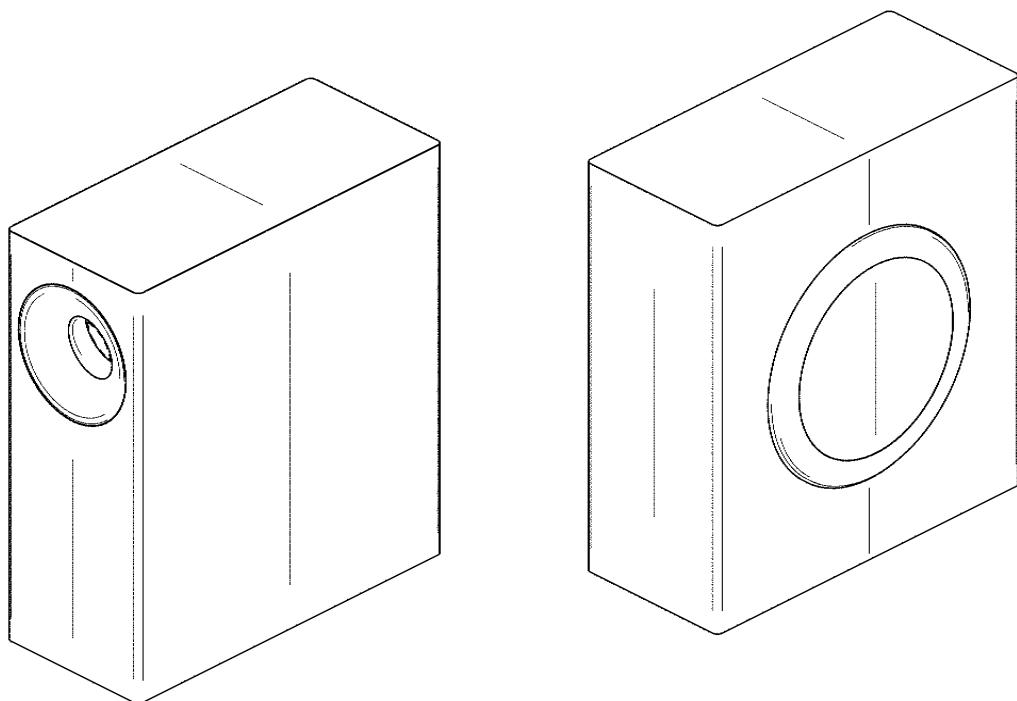


Fig. 200. Sound device (USD856974)

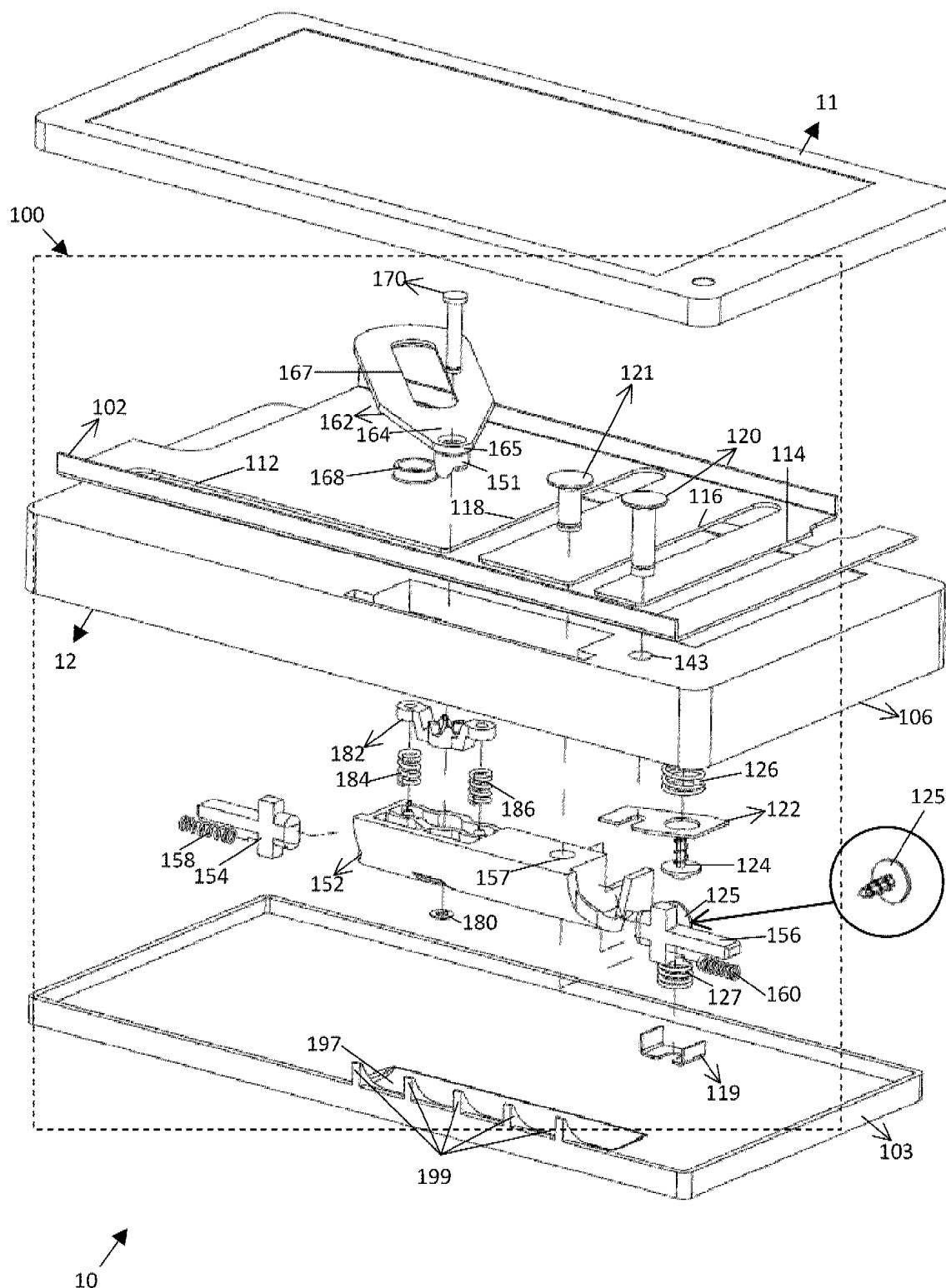


Fig. 201. Hinge mechanism for a portable device (US8112844)

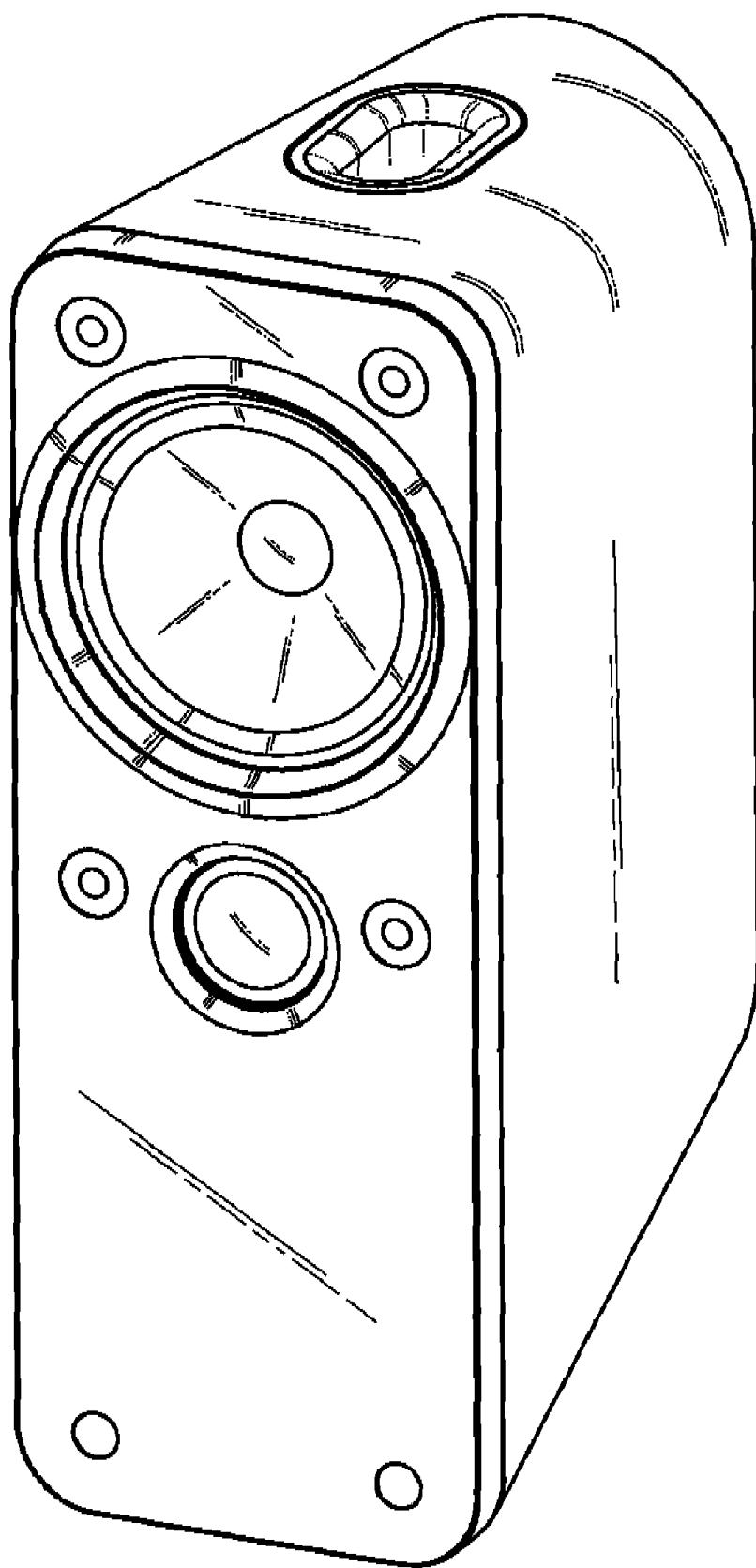


Fig. 202. Loudspeaker (USD602909)

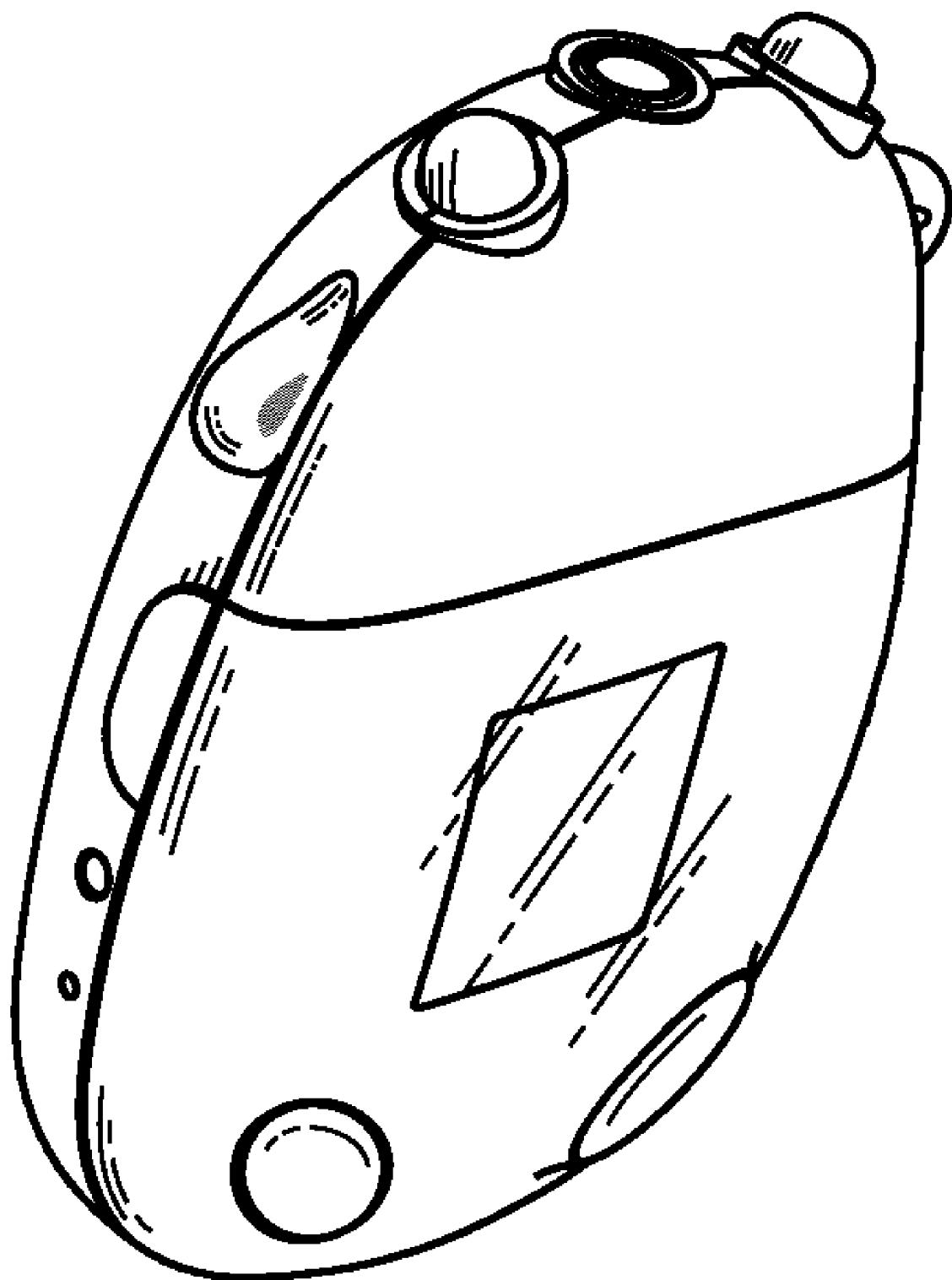


Fig. 203. Media player (USD605204)

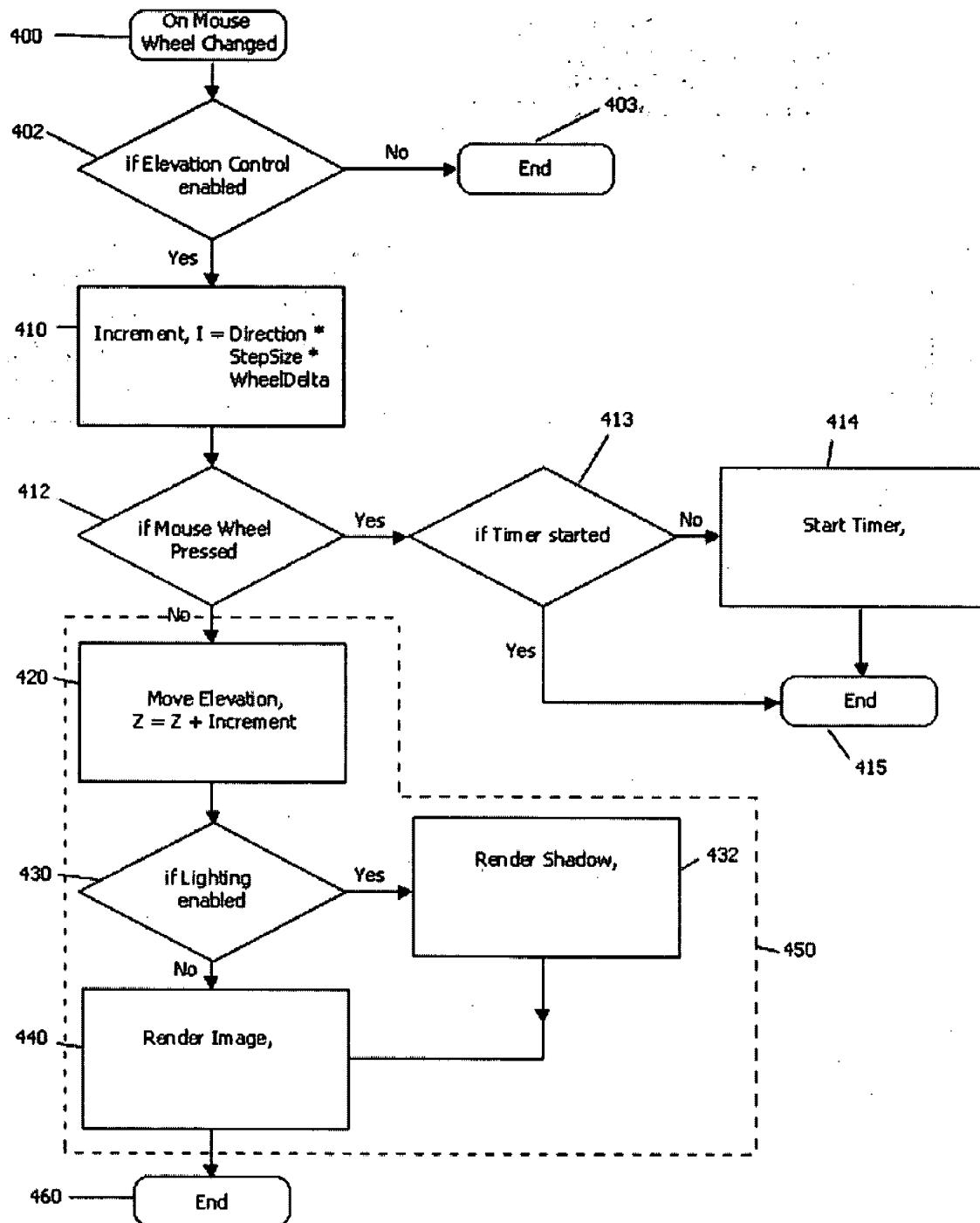


Fig. 204. Interface for enhanced movement of objects in a display (US2007200871)

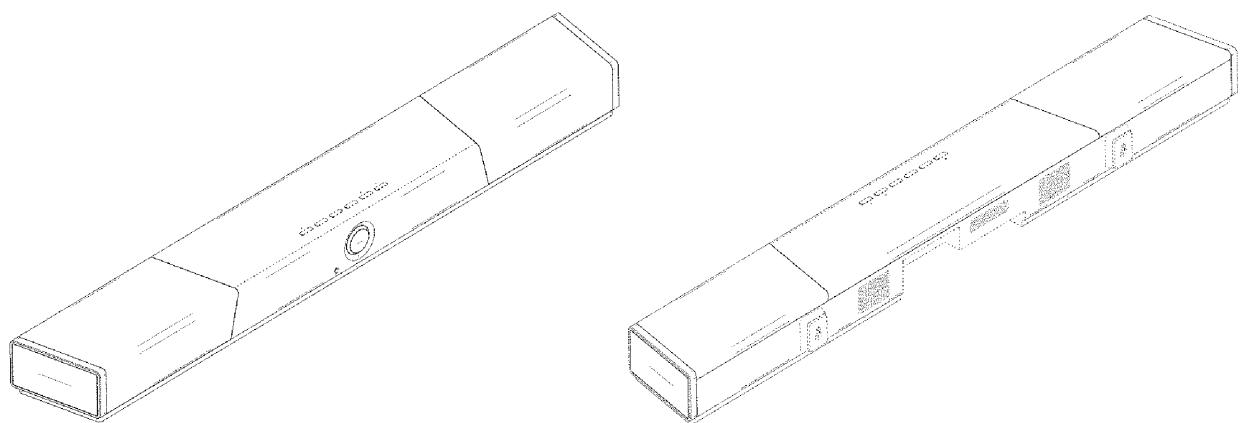


Fig. 205. Sound device (USD915350)

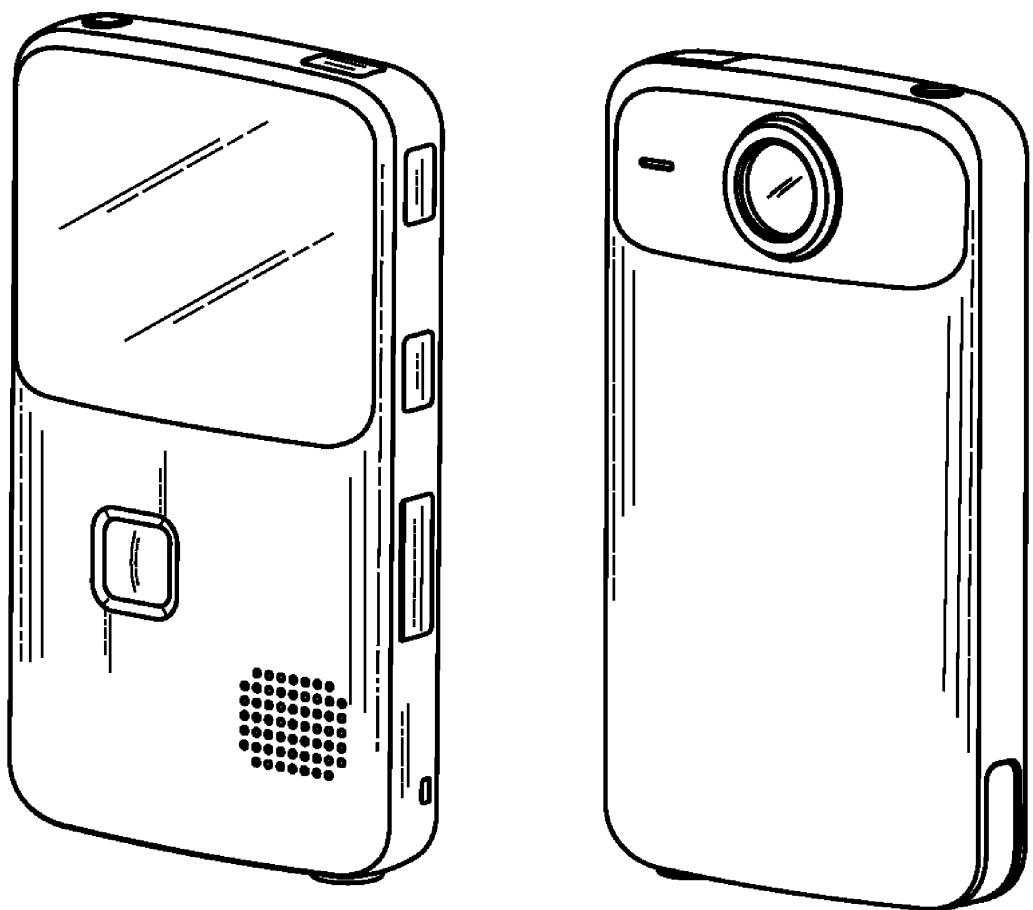


Fig. 206. Camera (USD635606)

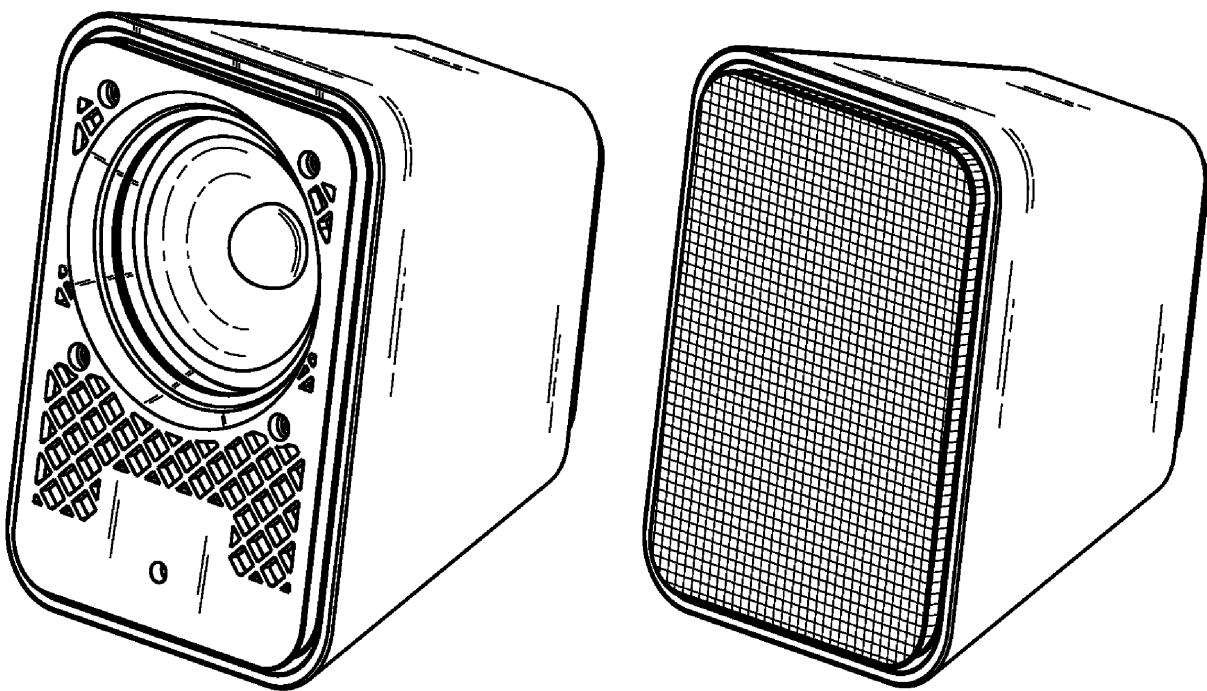


Fig. 207. Loudspeaker (USD607436)

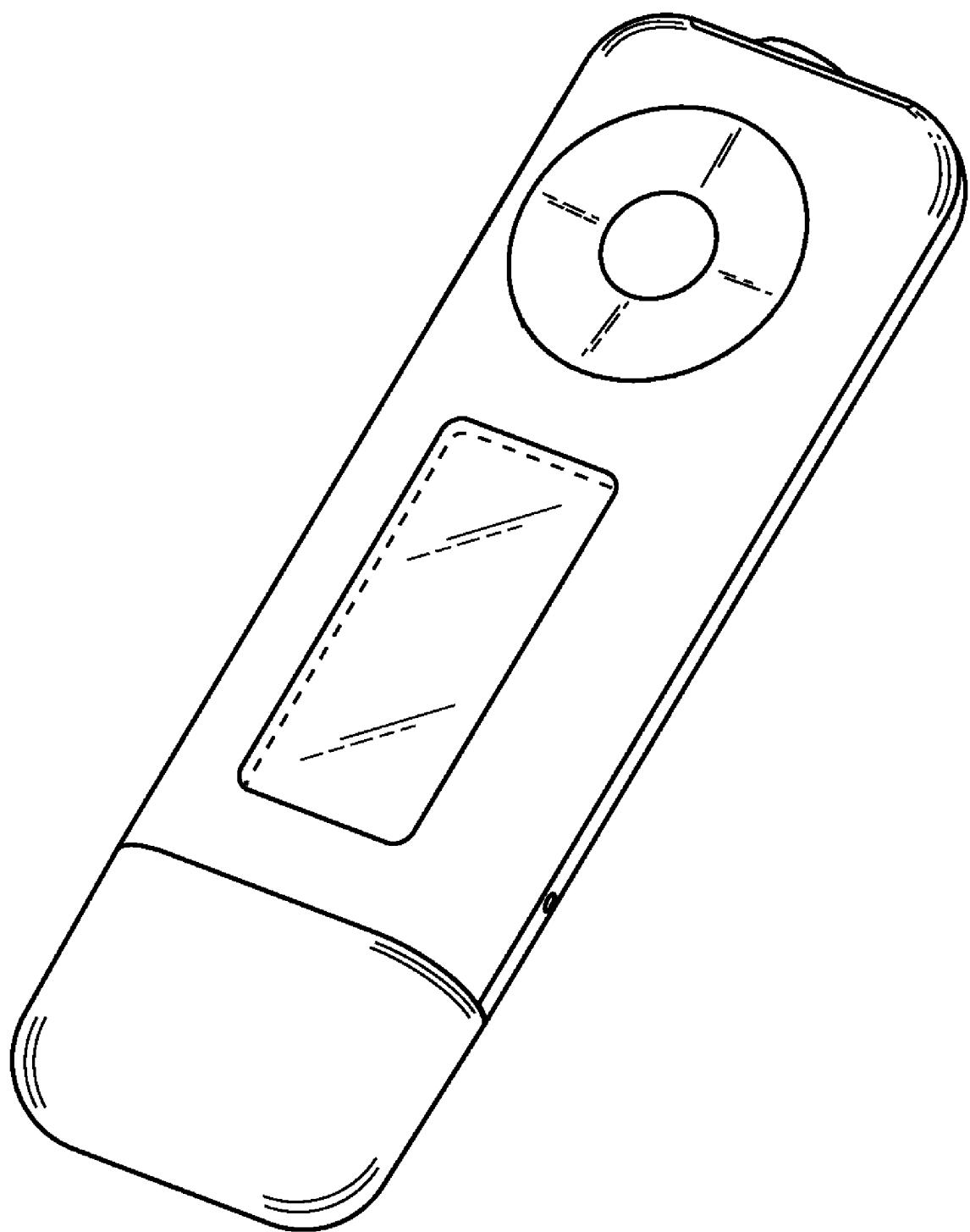


Fig. 208. Media player (USD592227)

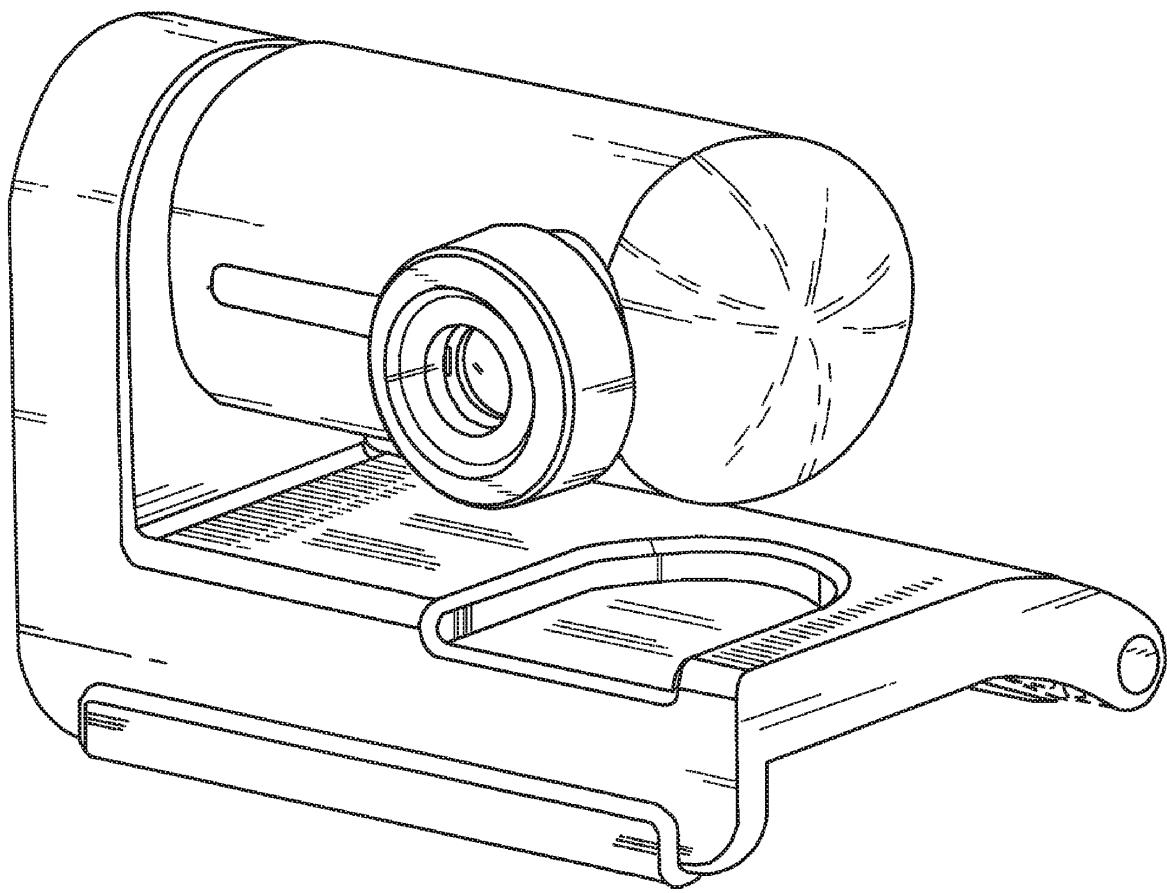


Fig. 209. Camera (USD577049)

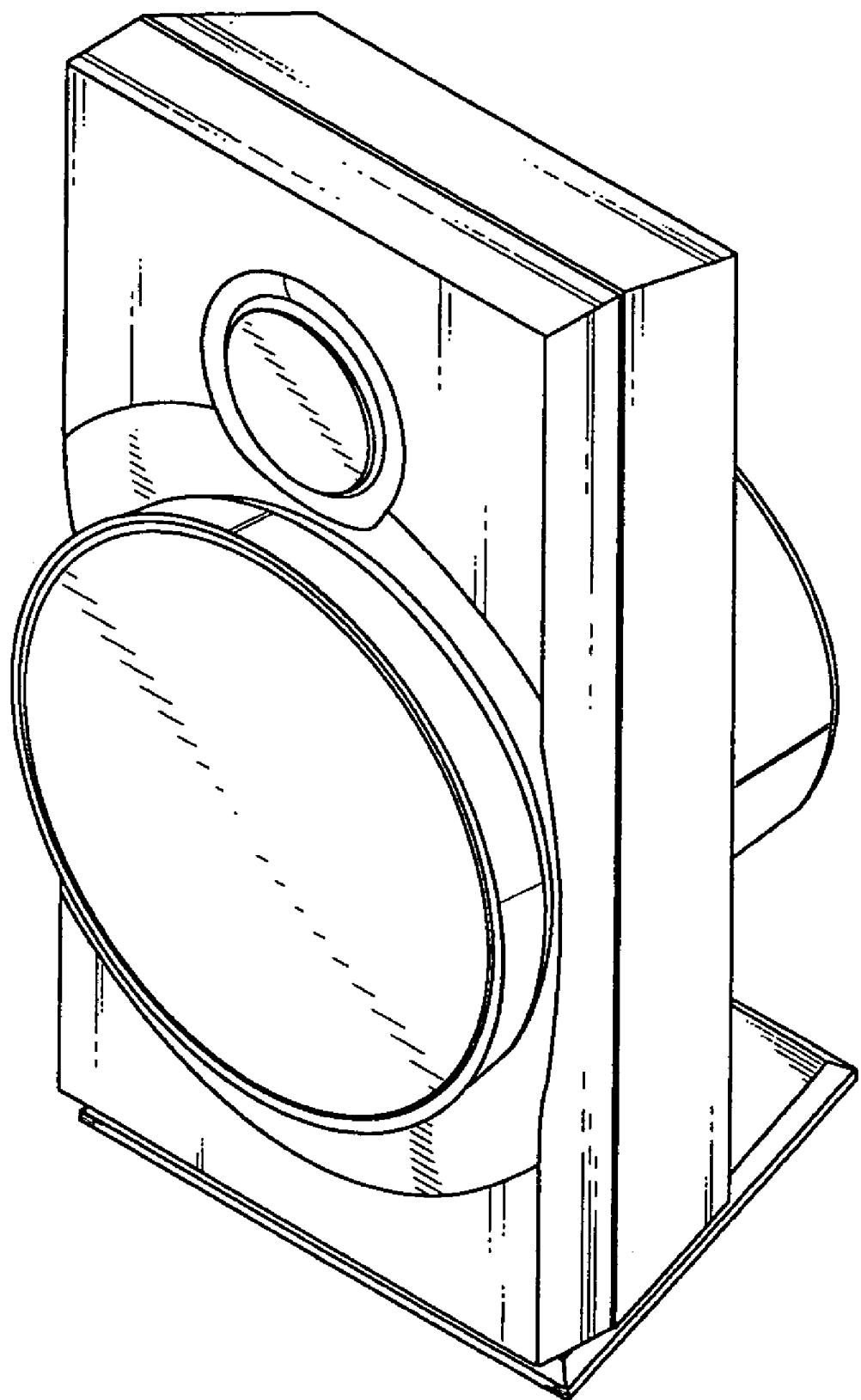


Fig. 210. Loudspeaker device (USD548726)

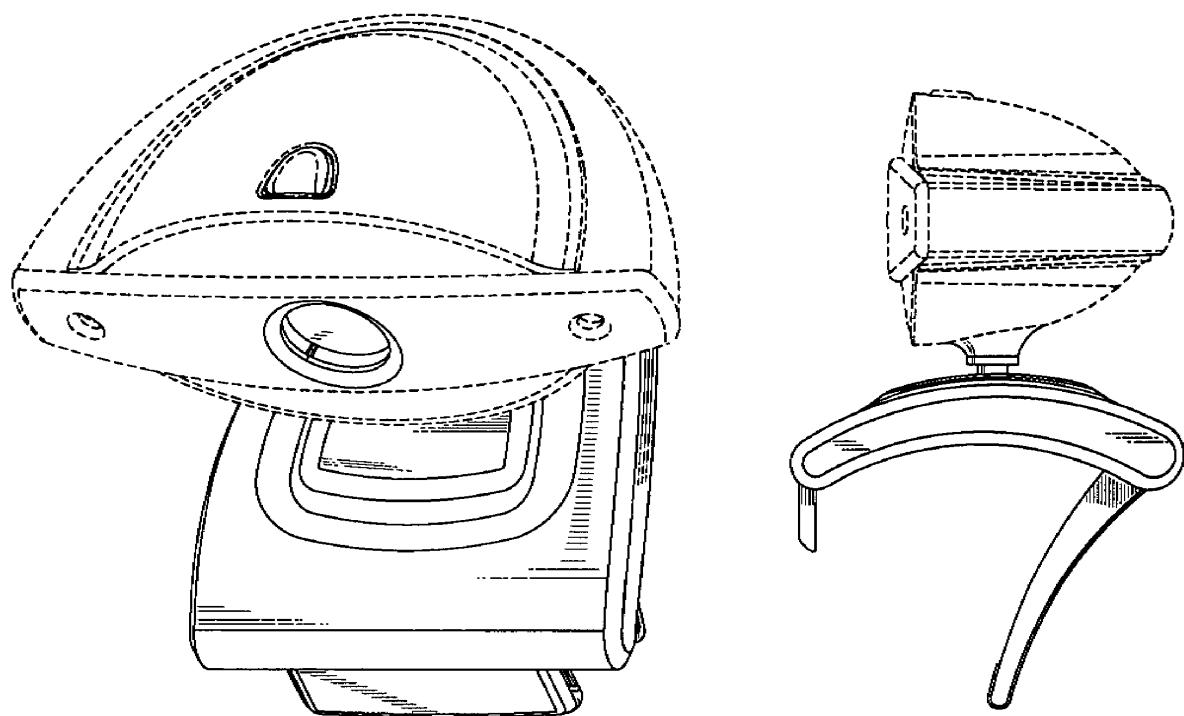


Fig. 211. Camera stand (USD551276)

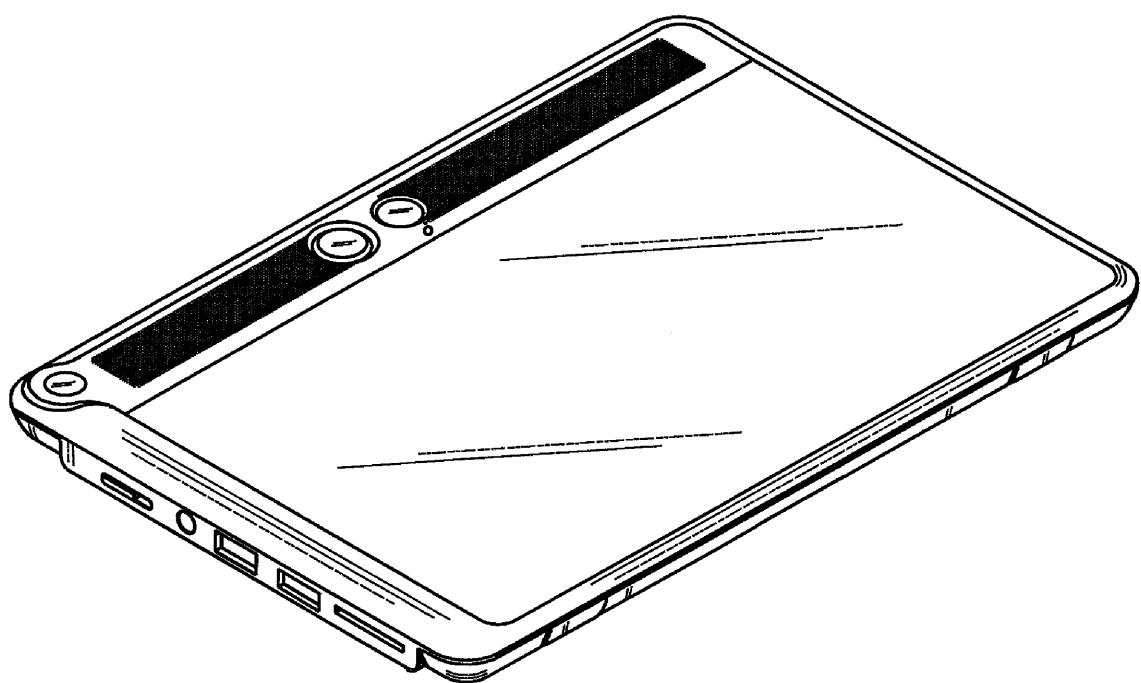


Fig. 212. Electronic reader device (USD653251)

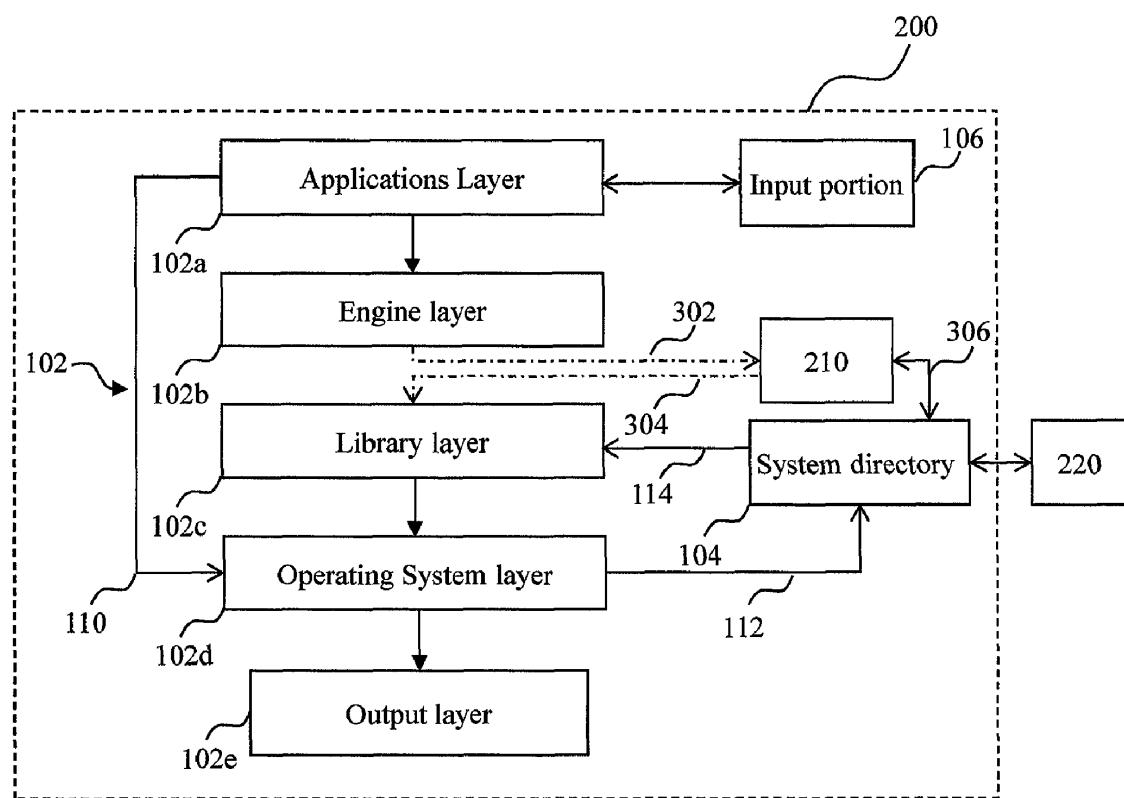


Fig. 213. System and method of processing for flexible interception of communication between system layers (US9632807)

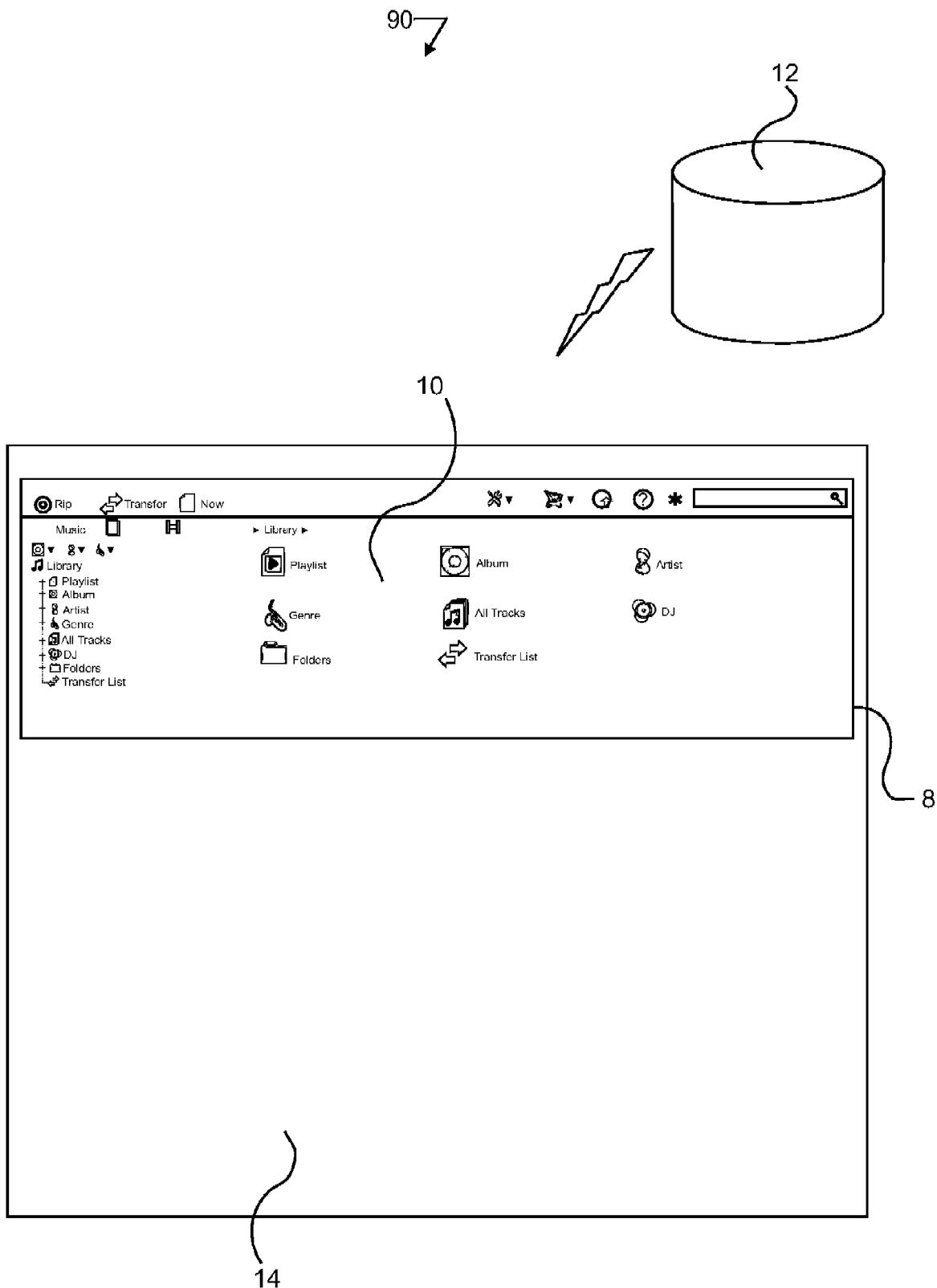


Fig. 214. Method for Generating a User Interface for Enabling Access to Data on a Server (US2010115021)

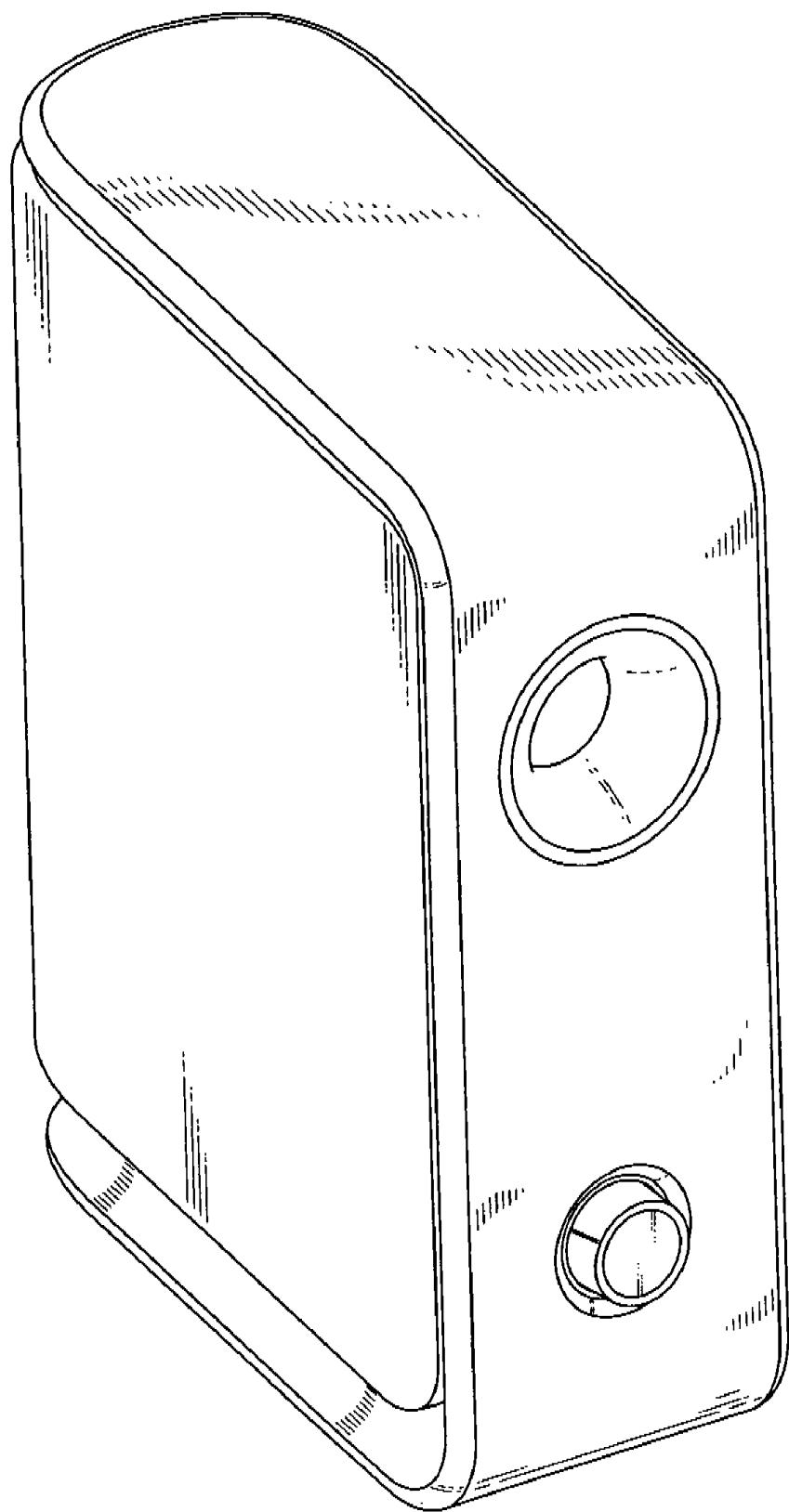


Fig. 215. Loudspeaker (USD577004)

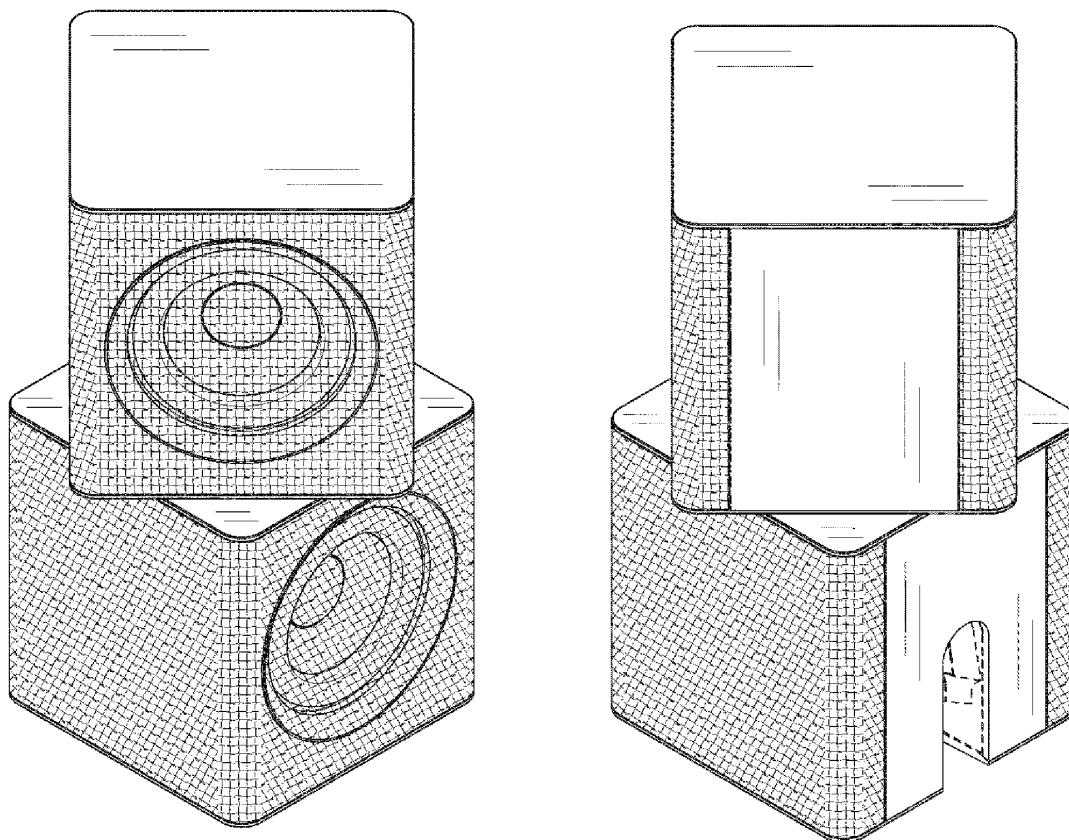


Fig. 216. Speaker (USD727293)

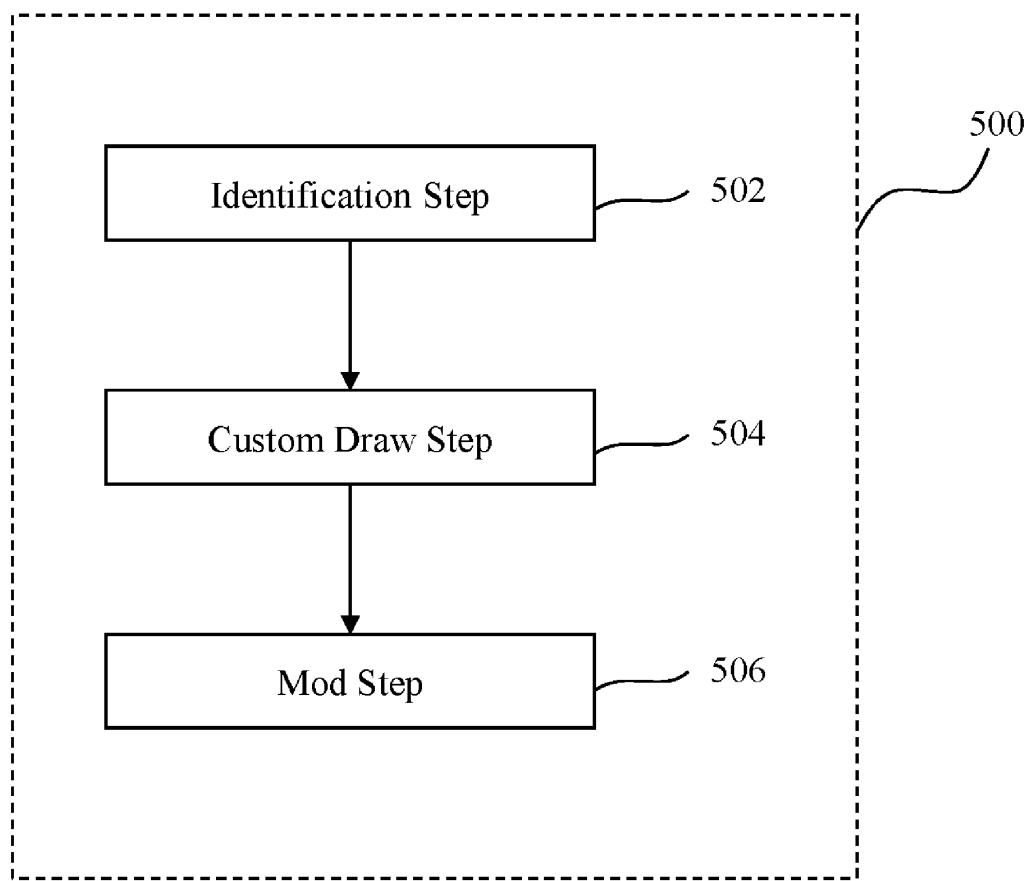


Fig. 217. A system suitable for one or both of audio processing and graphics processing and a method of processing in association therewith (US2016335788)

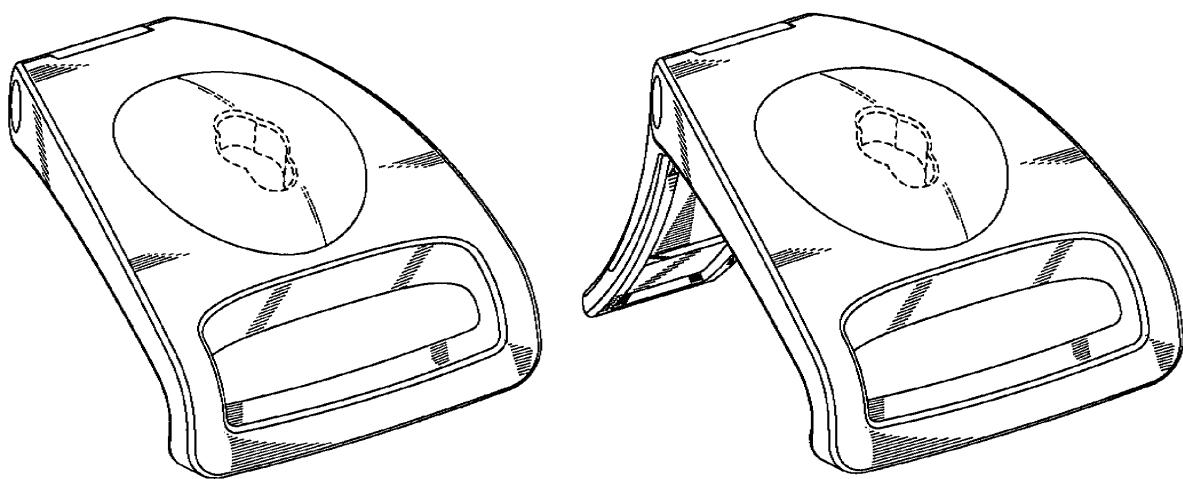


Fig. 218. Camera stand (USD555699)

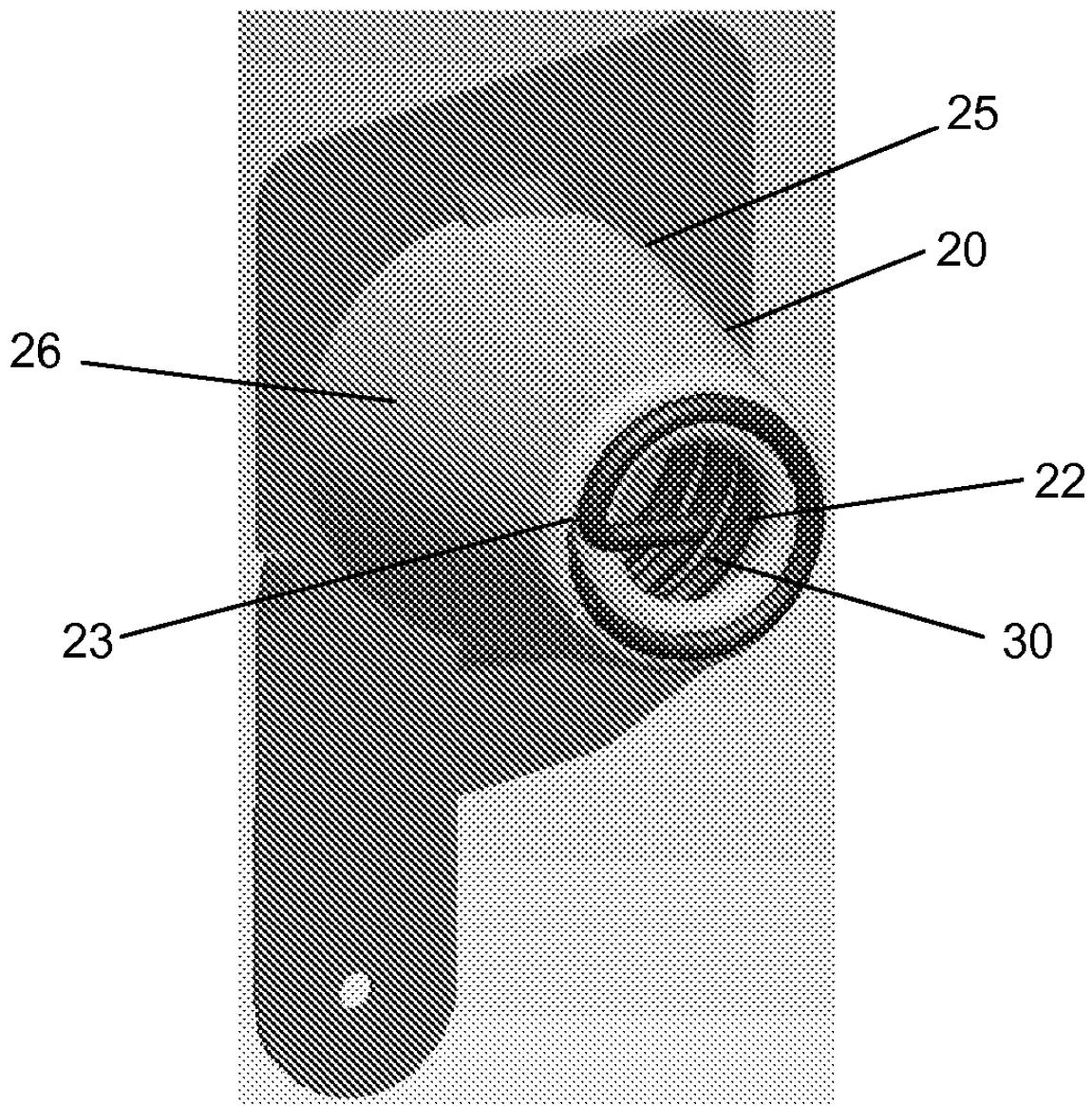


Fig. 219. Sheath for a flexible electrical contact (US7717736)

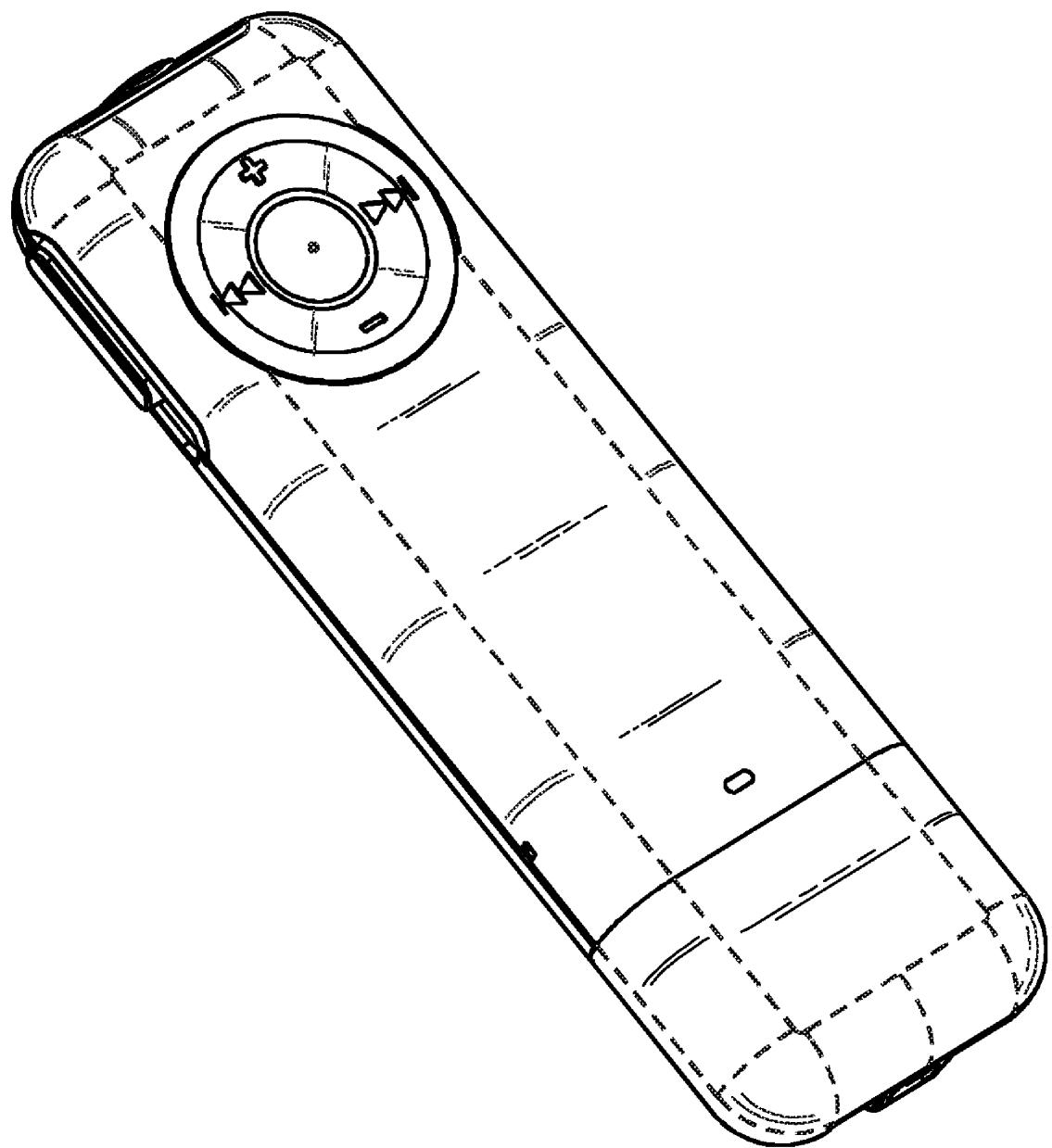


Fig. 220. Media player (USD580456)

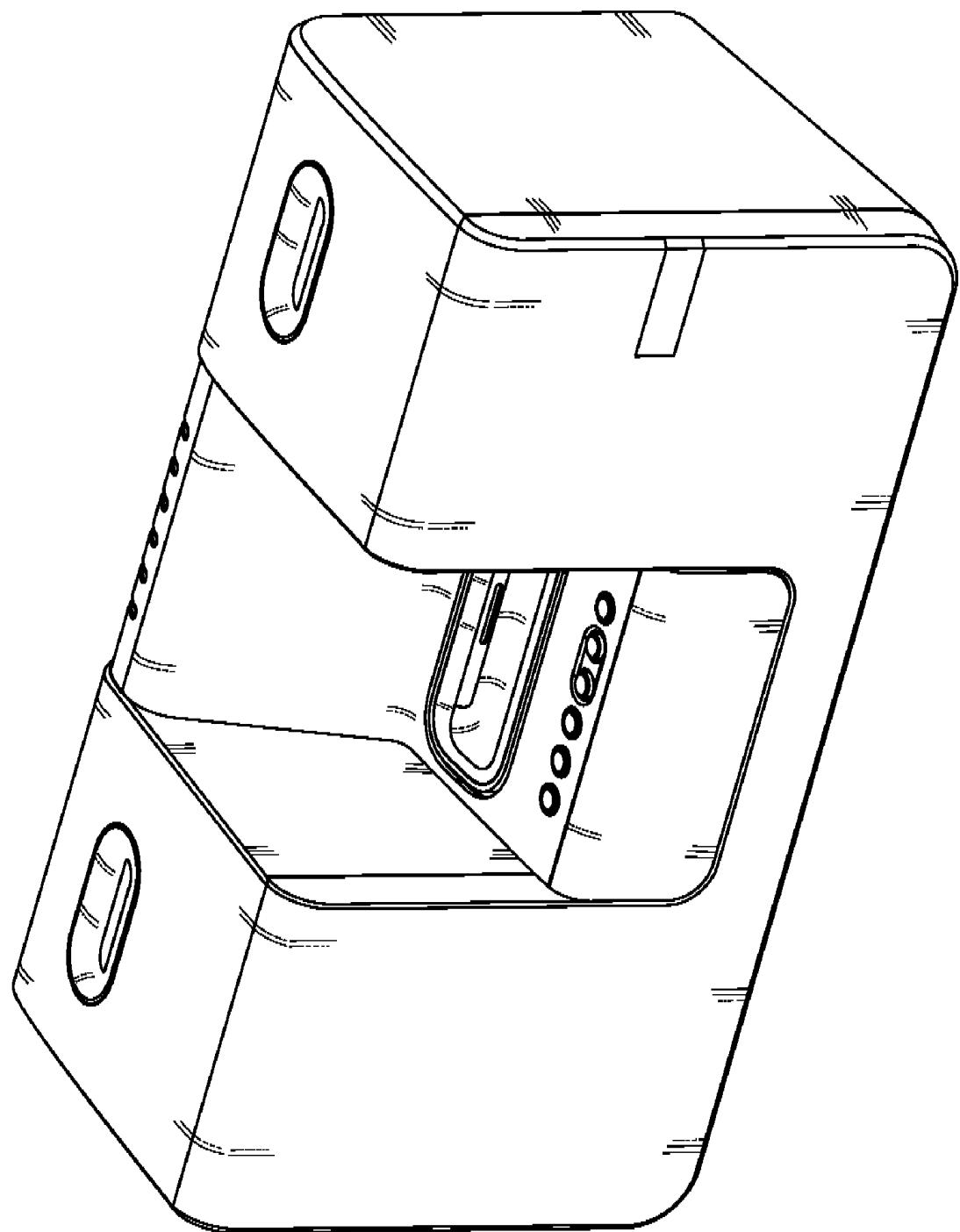


Fig. 221. Docking loudspeaker for media player (USD582891)

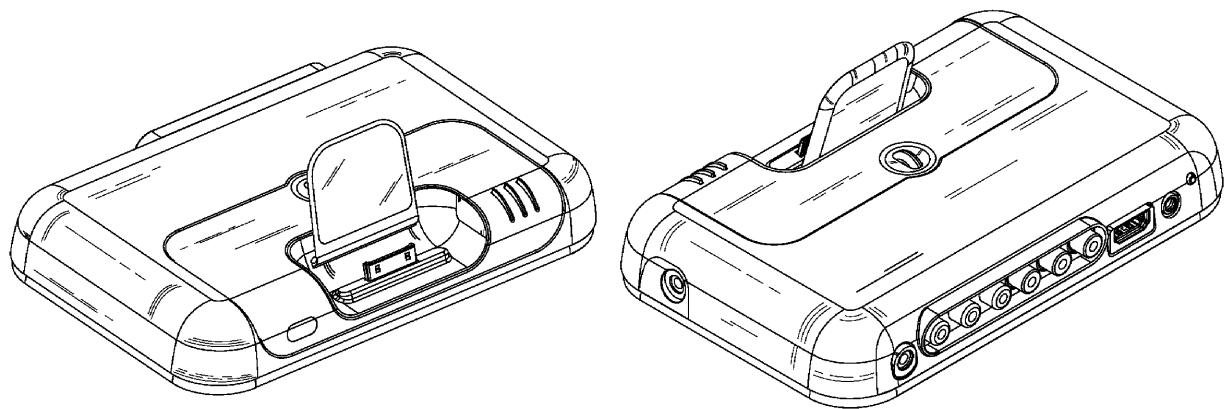


Fig. 222. Dock for media player (USD579917)

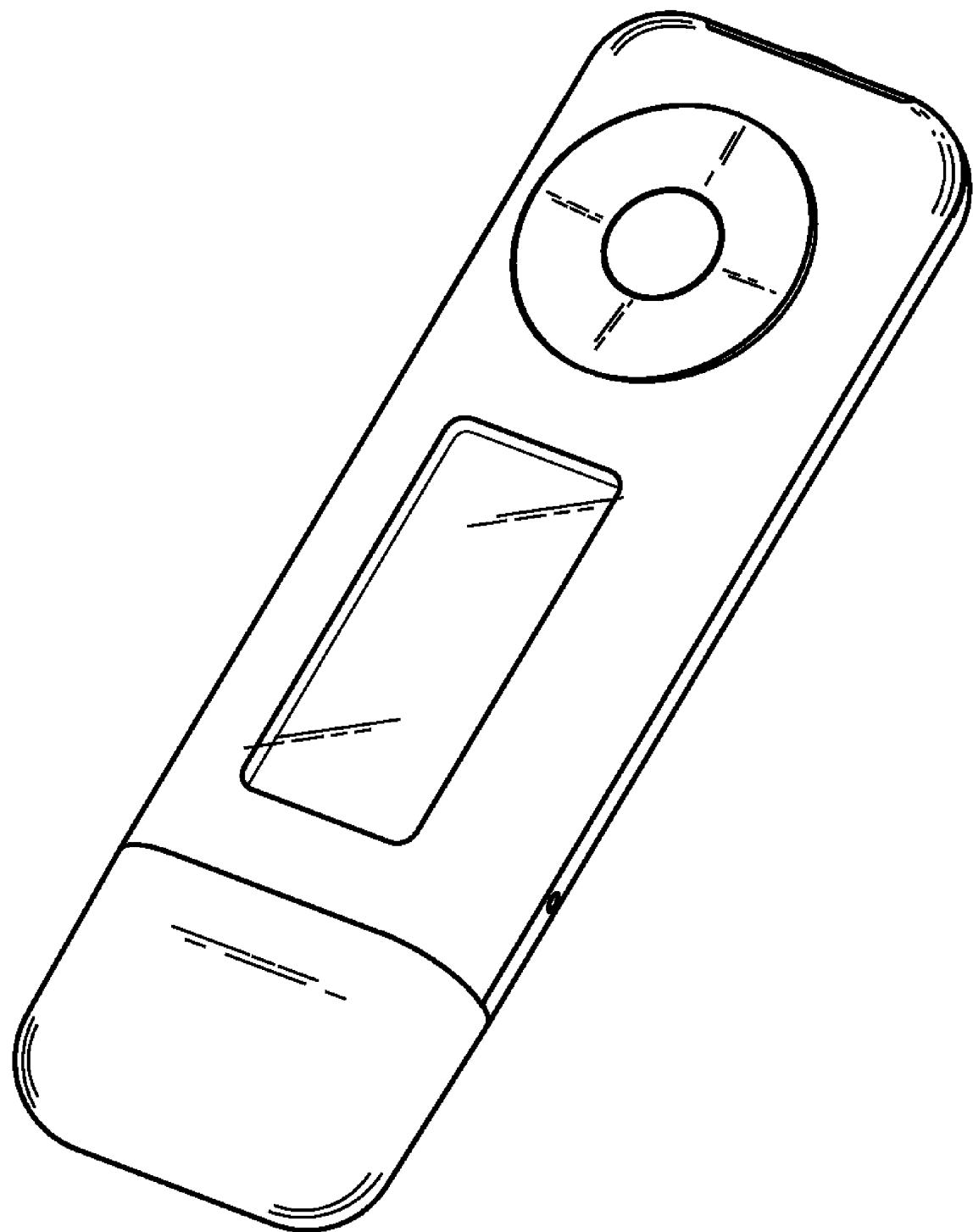


Fig. 223. Media player (USD588611)

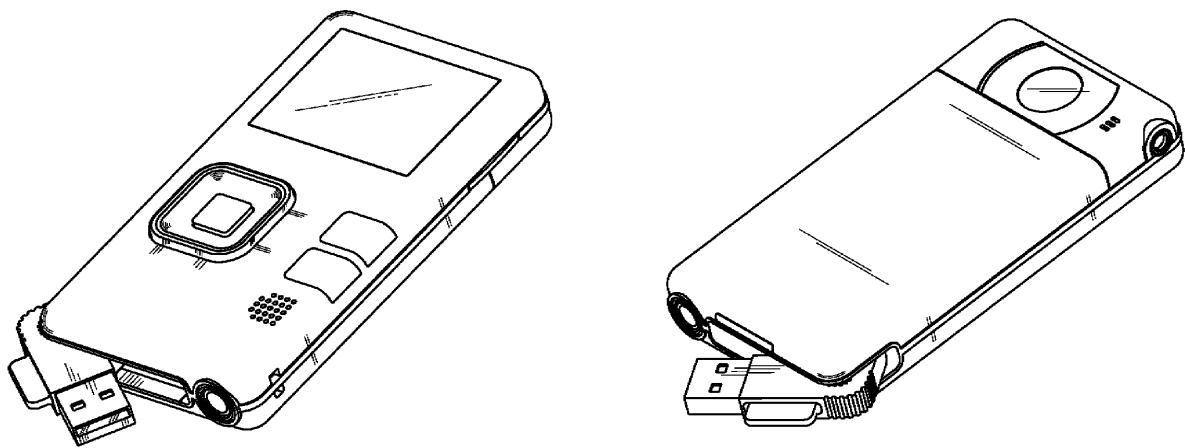


Fig. 224. Camera (USD608813)

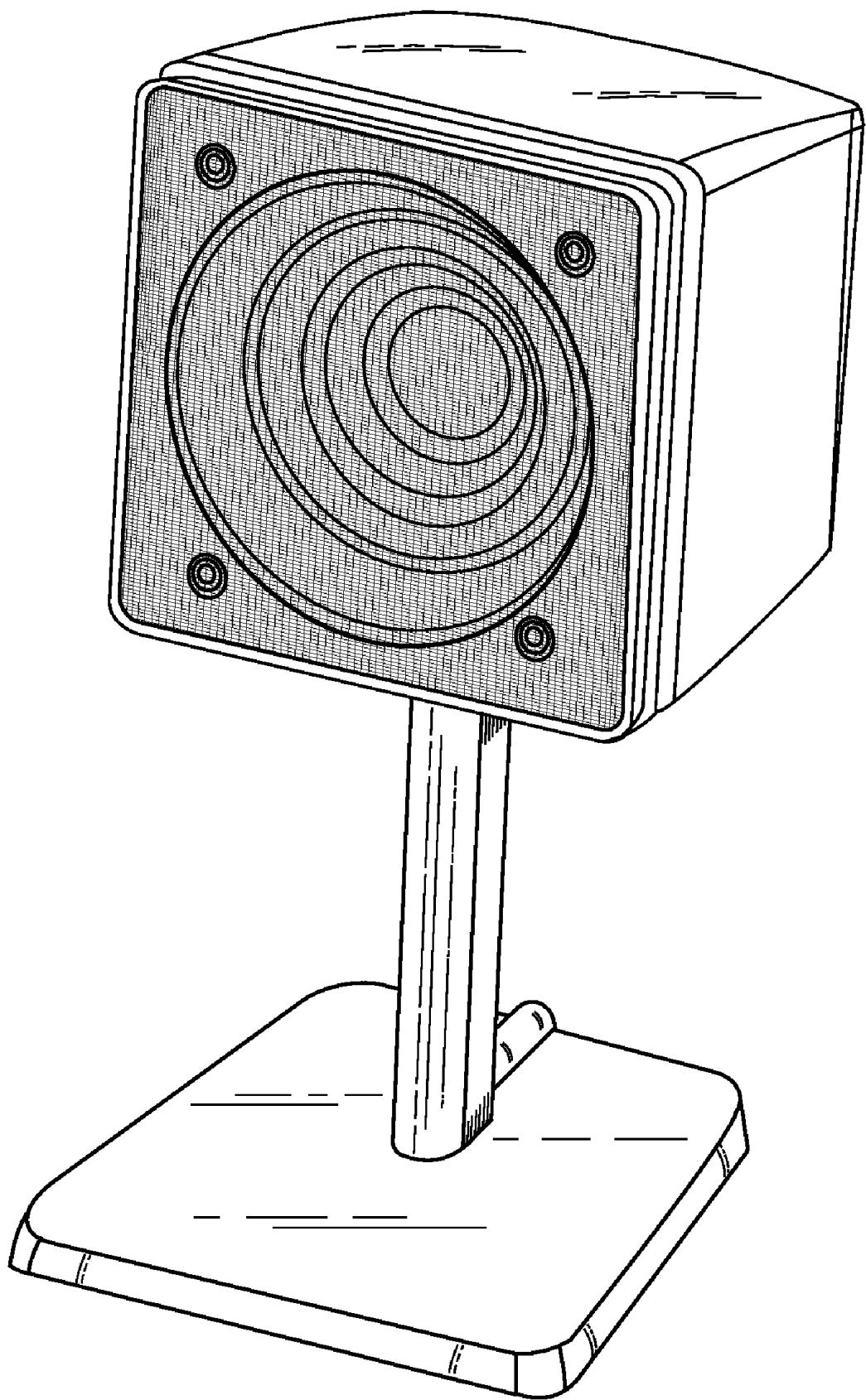


Fig. 225. Loudspeaker (USD606974)

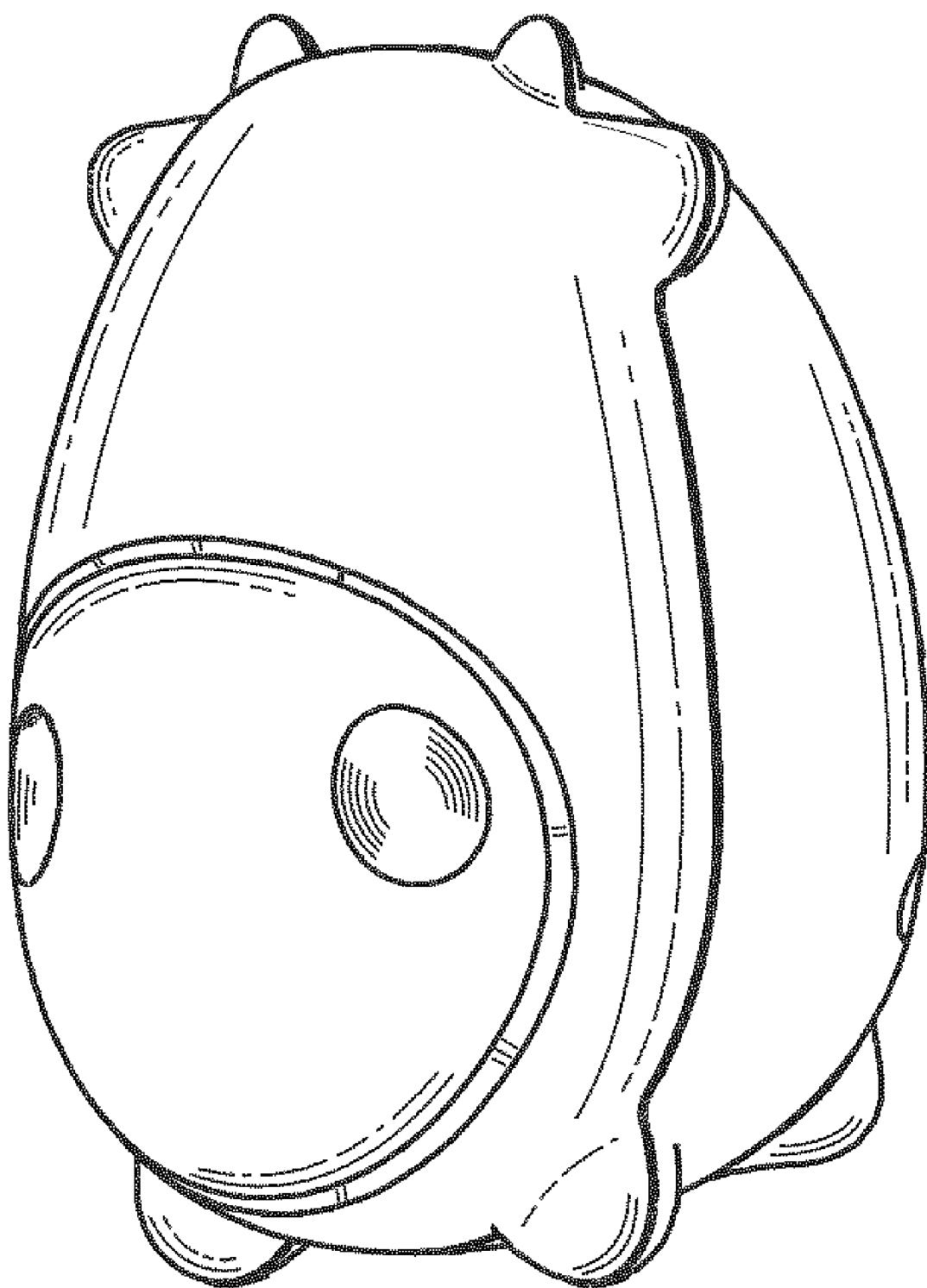


Fig. 226. Loudspeaker (USD607877)

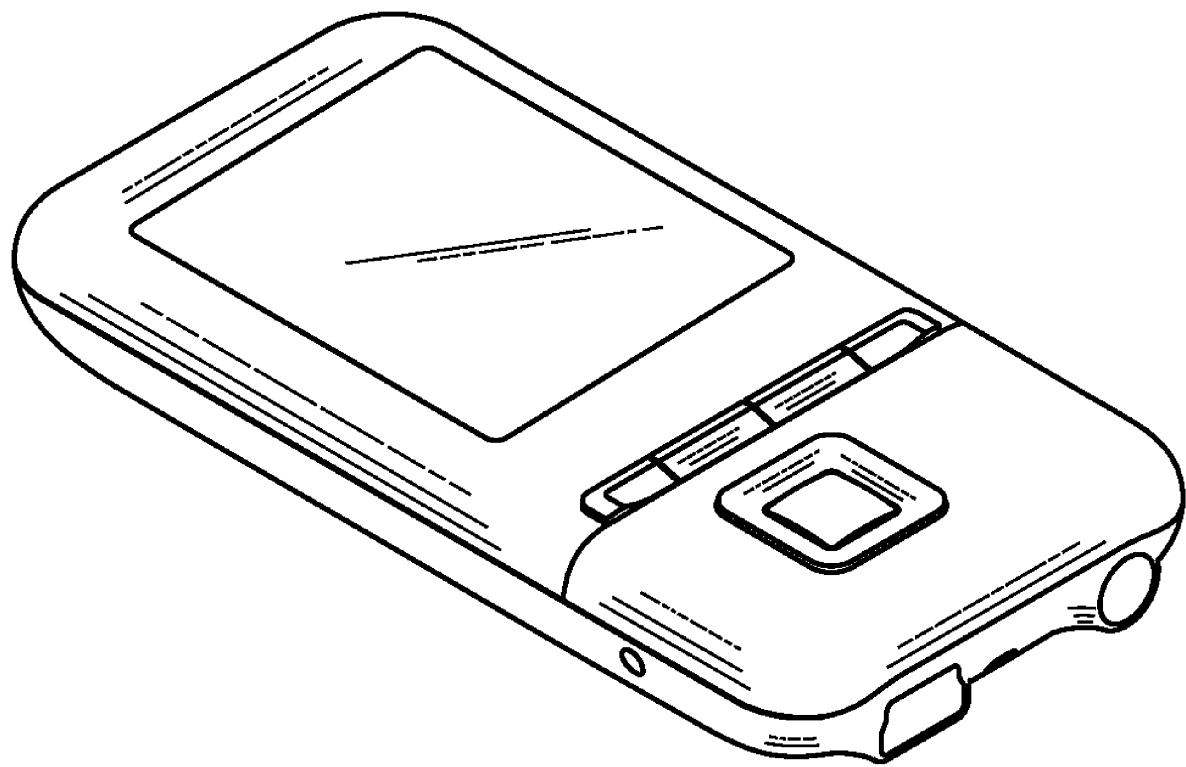


Fig. 227. Media player (USD627332)

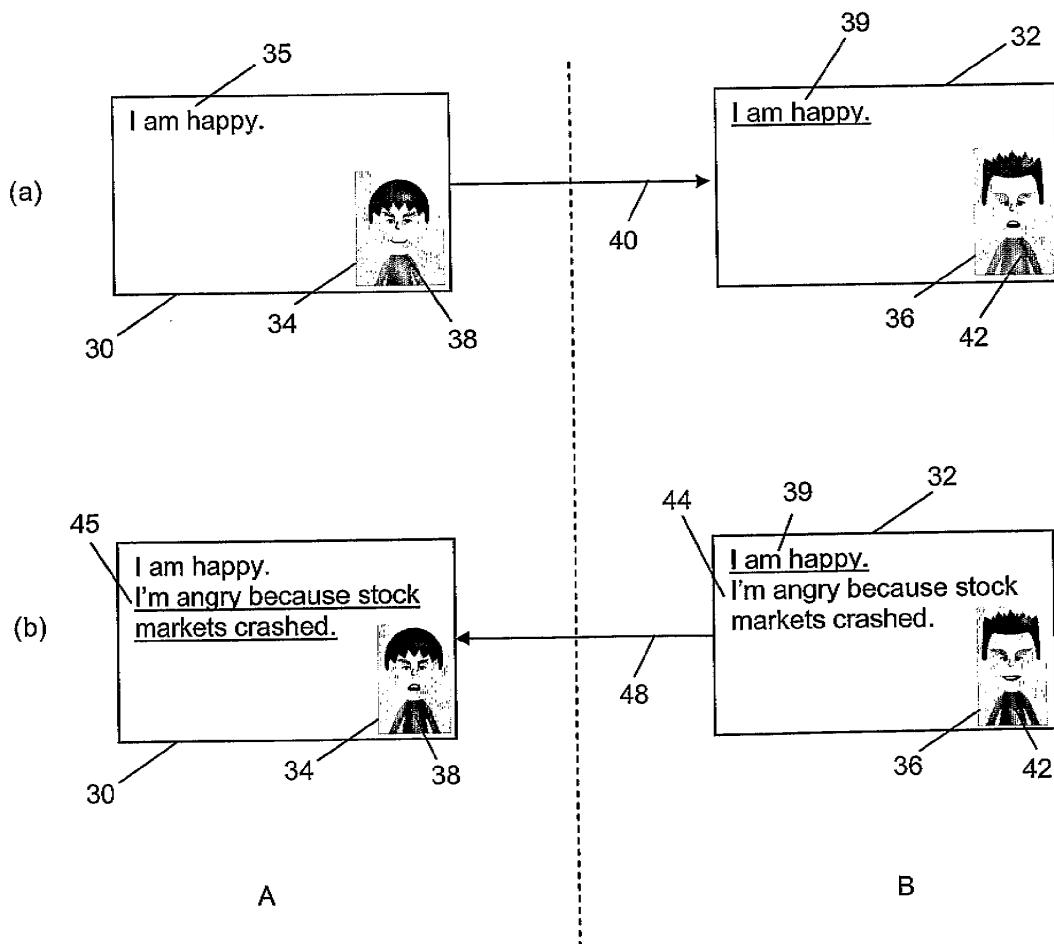


Fig. 228. Dynamic digitized visual icon and methods for generating the aforementioned (US2010281121)

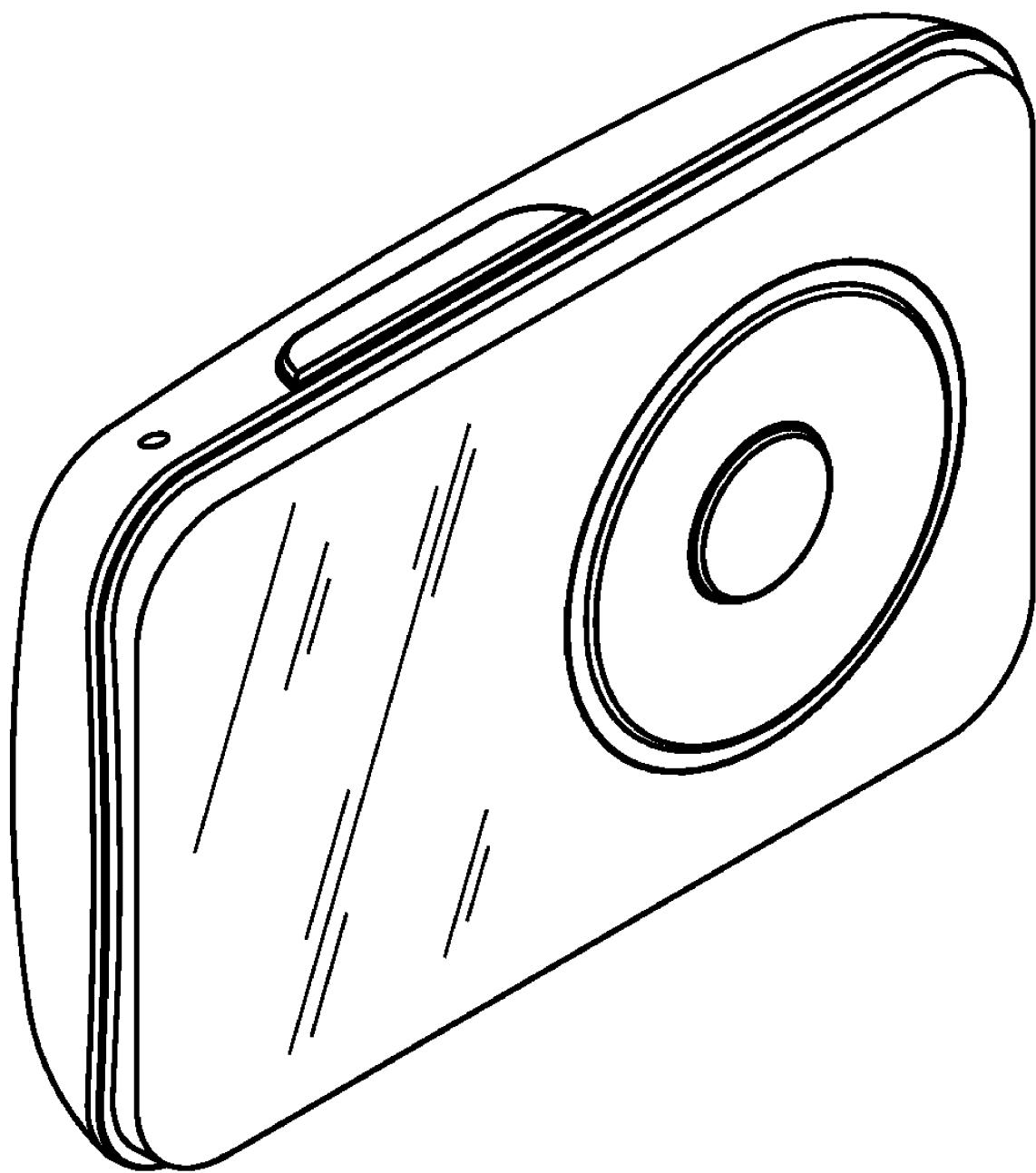


Fig. 229. Media player (USD584316)

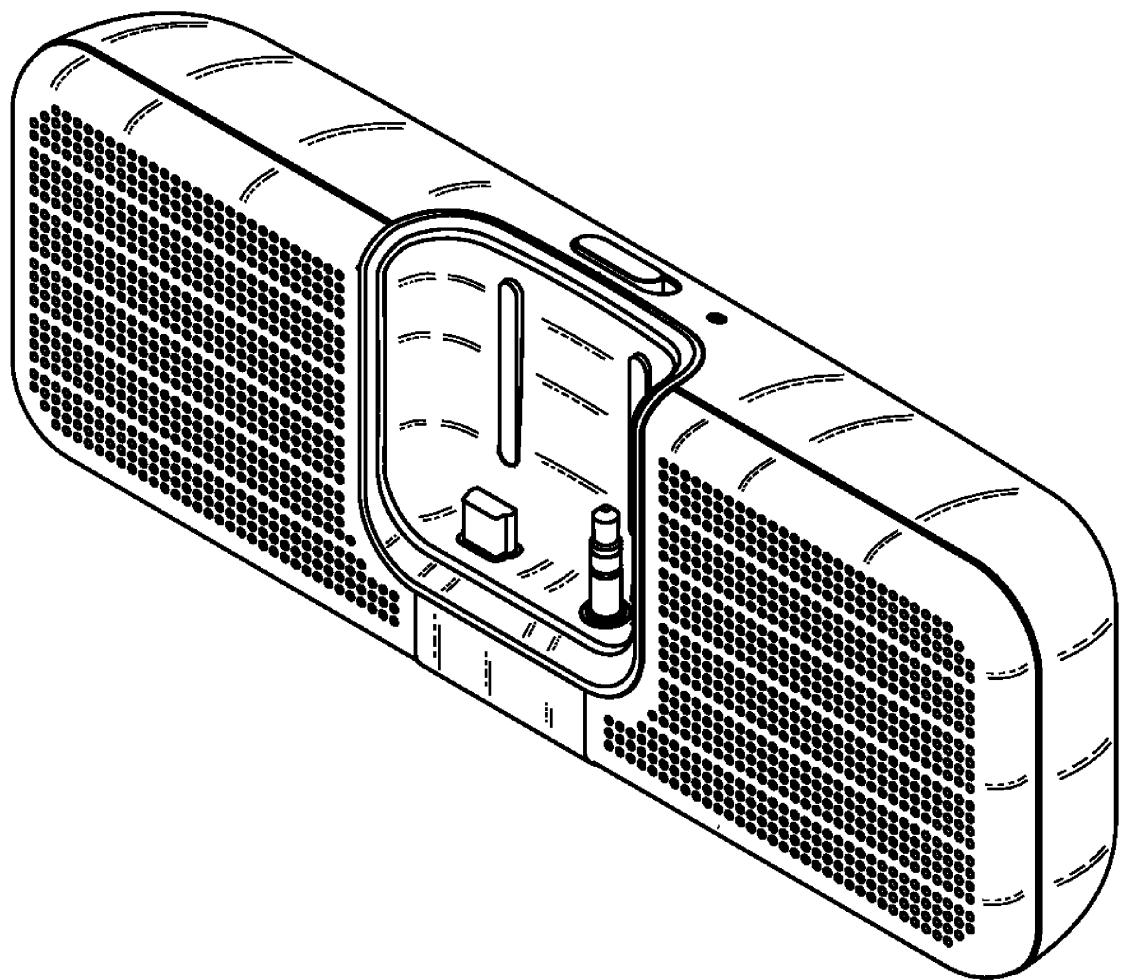


Fig. 230. Loudspeaker (USD592186)

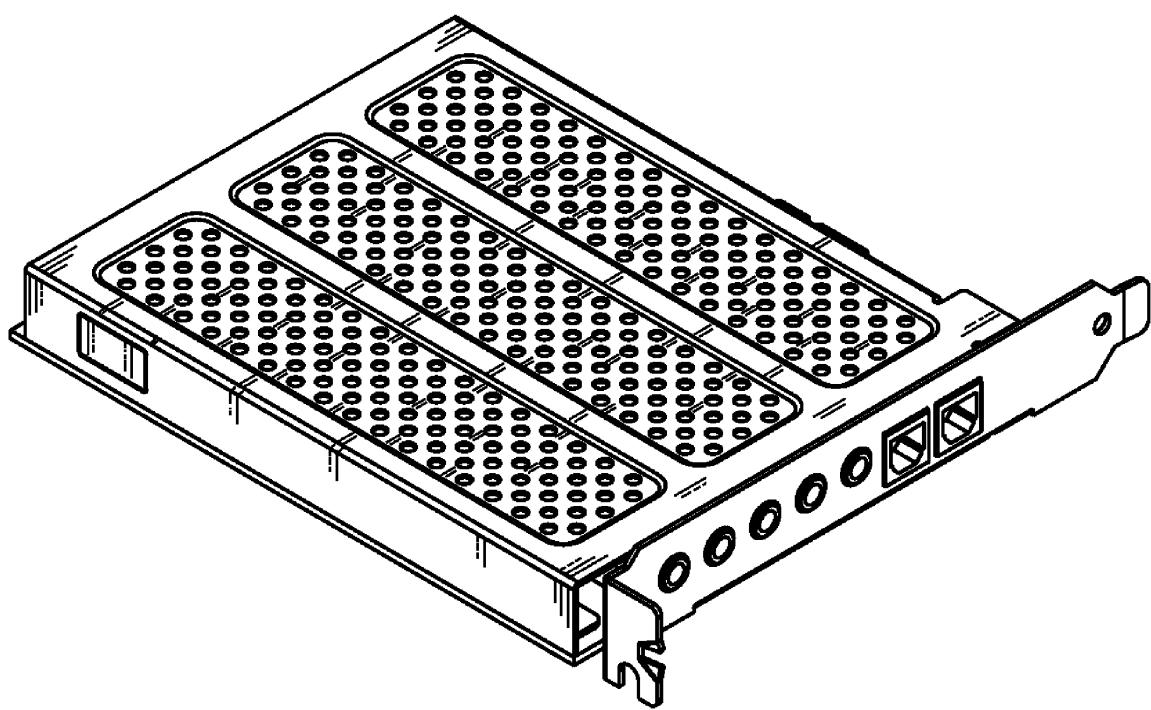


Fig. 231. Media enhancement peripheral for a computer (USD618680)

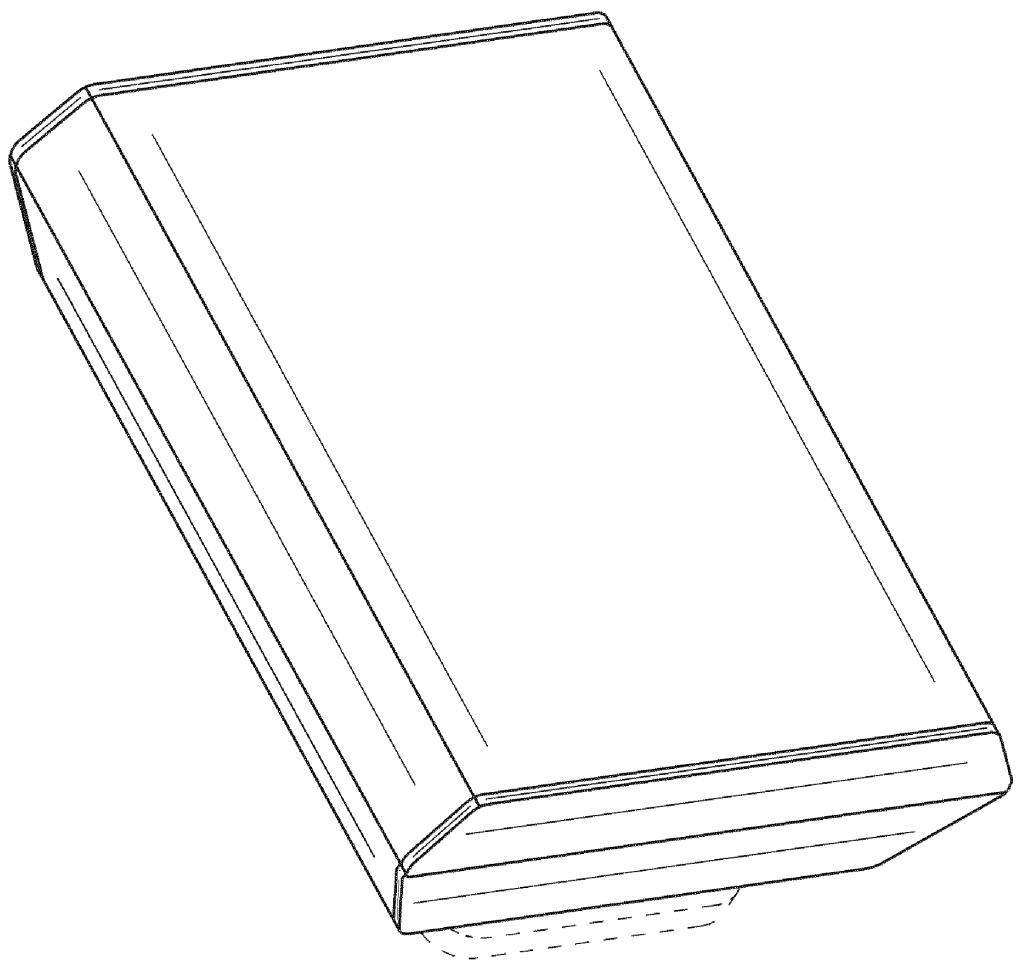


Fig. 232. Sound device (USD754095)

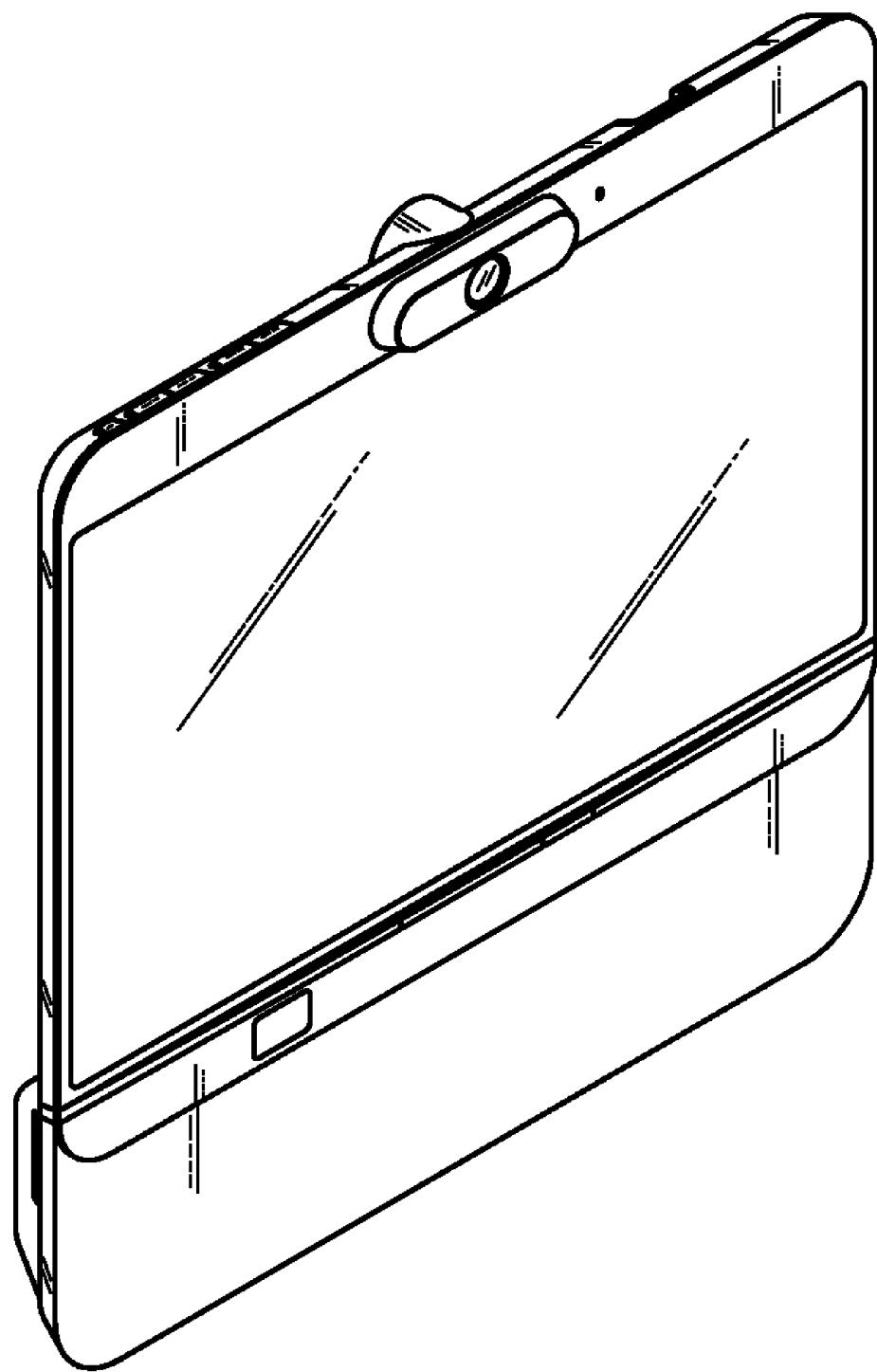


Fig. 233. Communication device (USD641749)

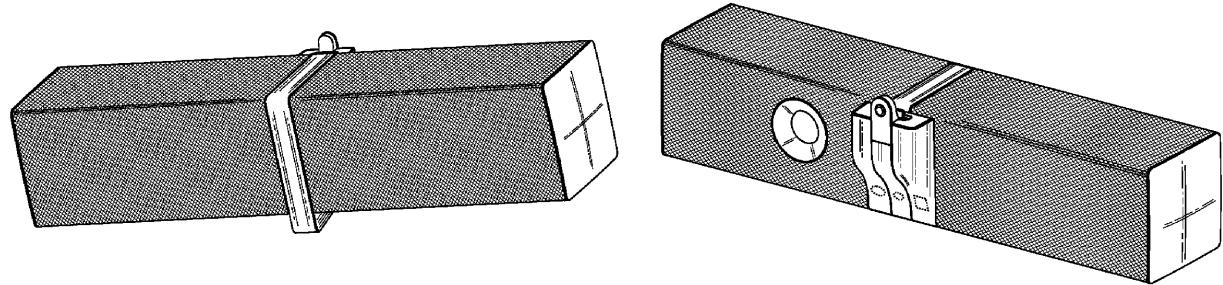


Fig. 234. Loudspeaker (USD618213)

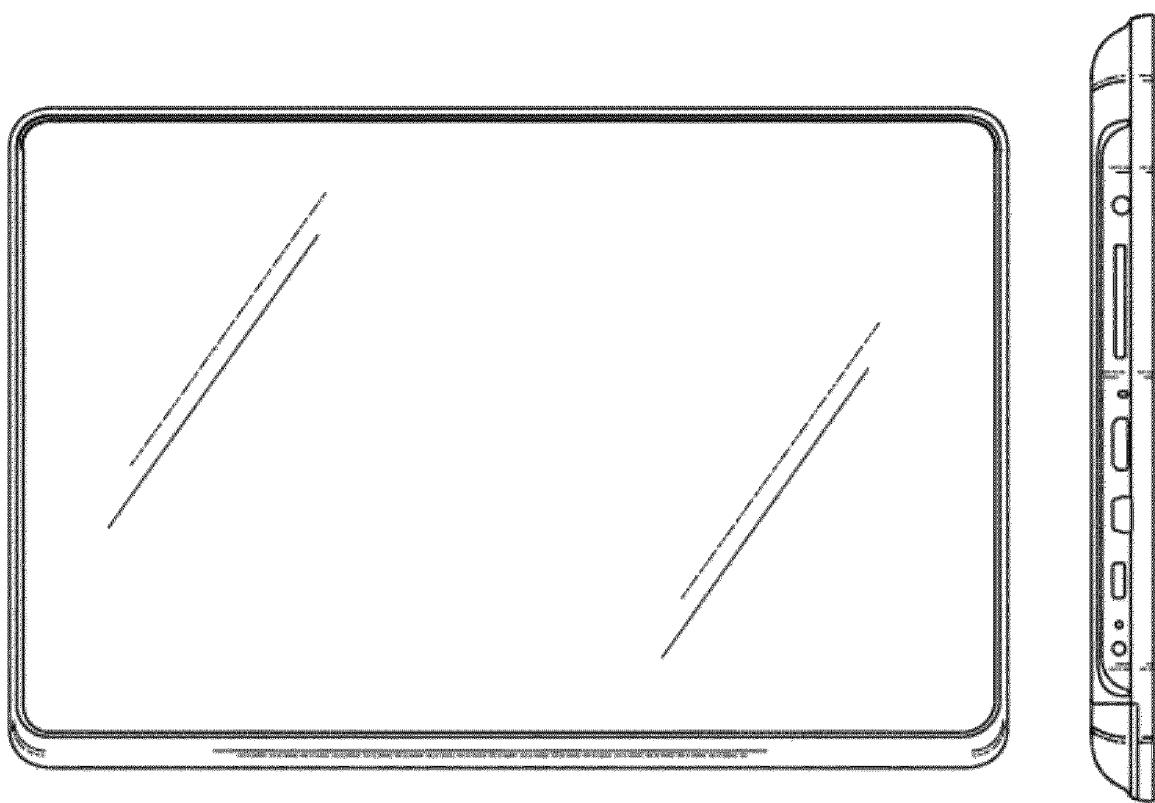


Fig. 235. Electronic reader device (USD669470)

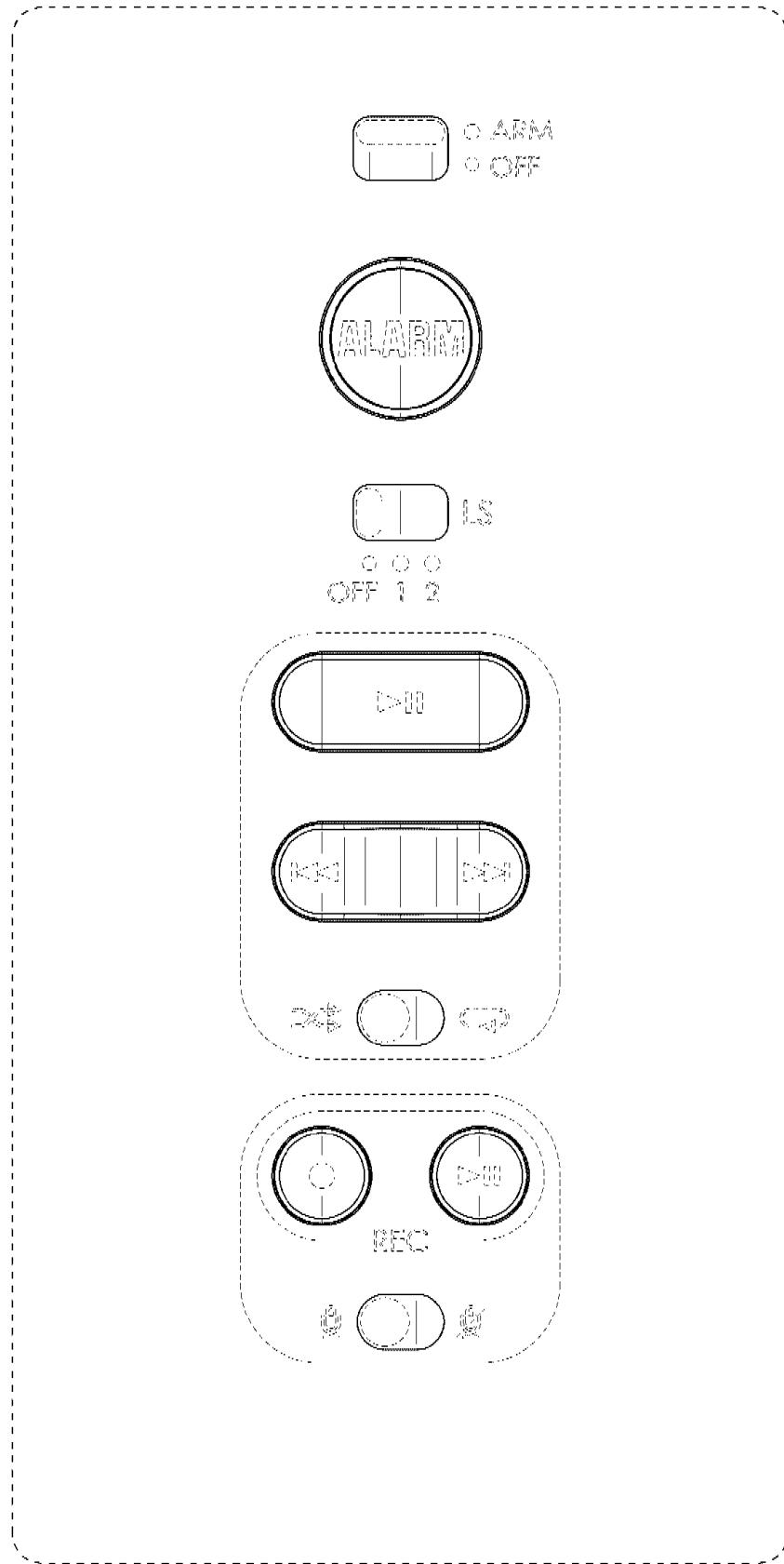


Fig. 236. Button set for an electronic device (USD774502)

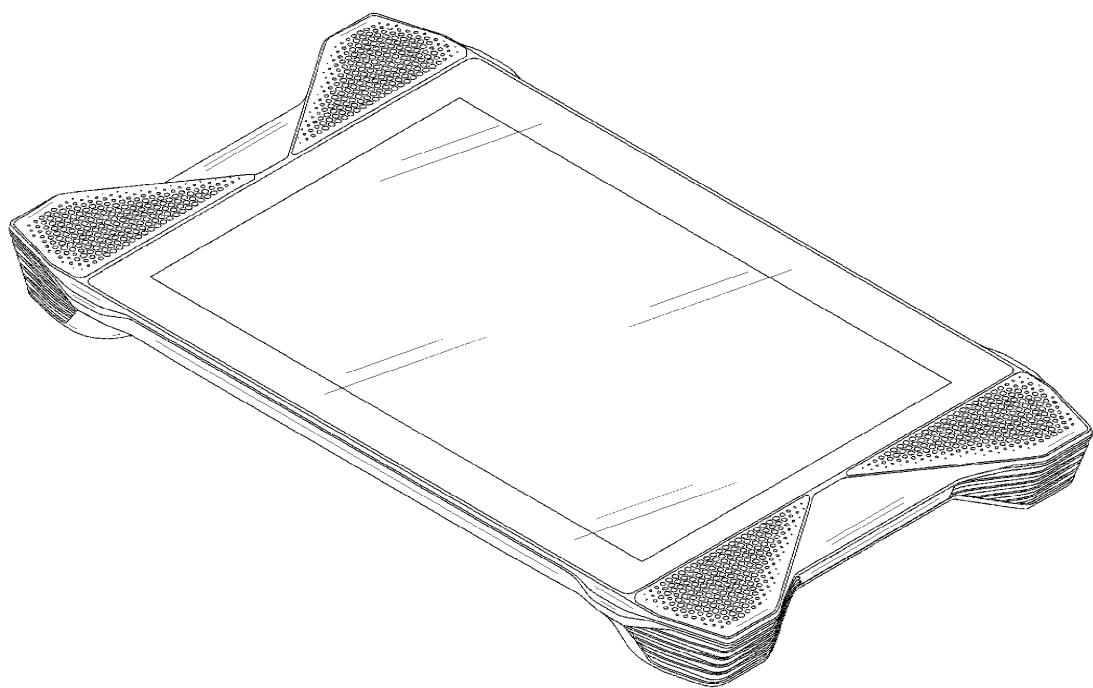


Fig. 237. Electronic reader device (USD729243)



Fig. 238. Headphone (USD711850)

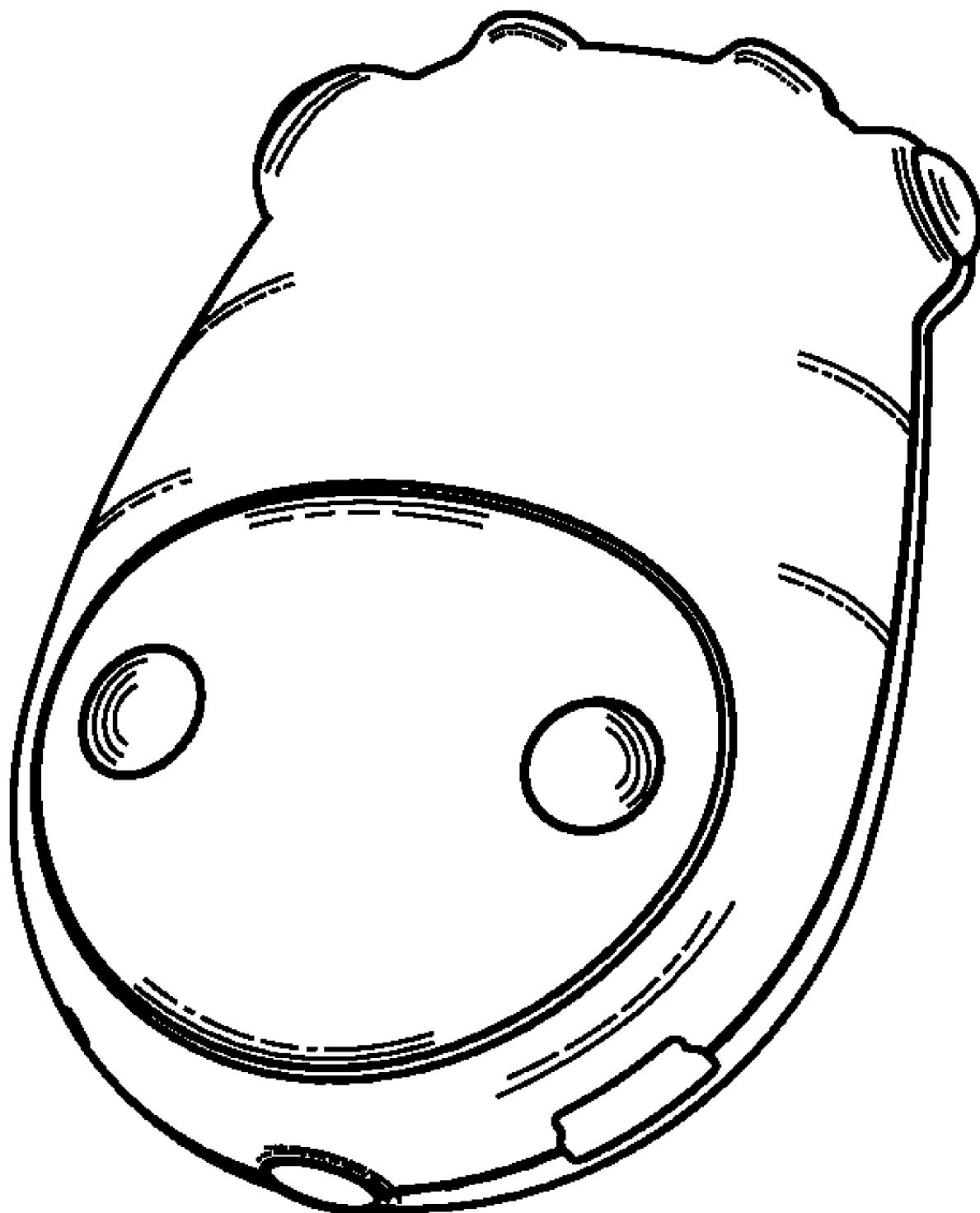


Fig. 239. Media player (USD608762)

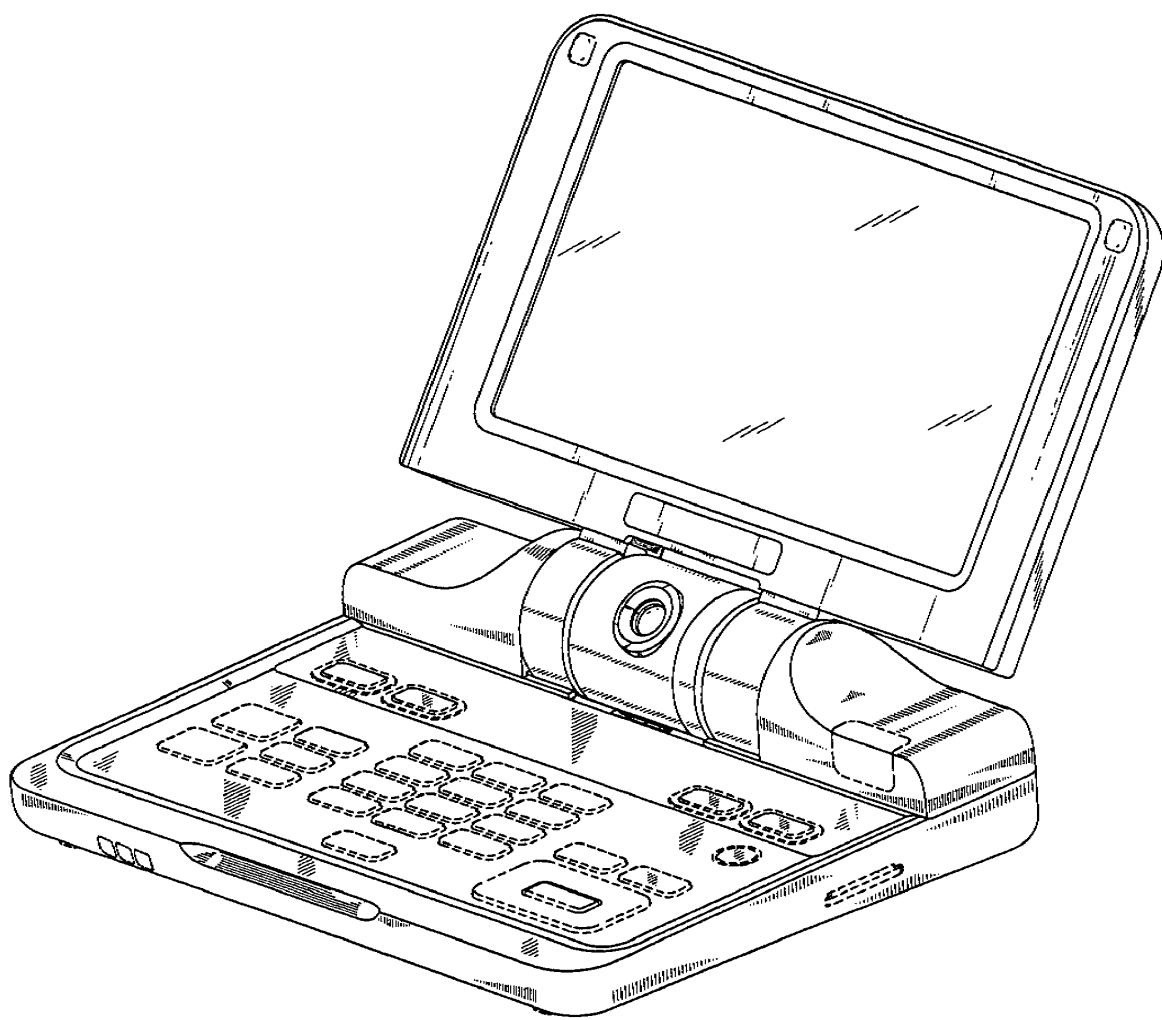


Fig. 240. Communication device (USD584301)

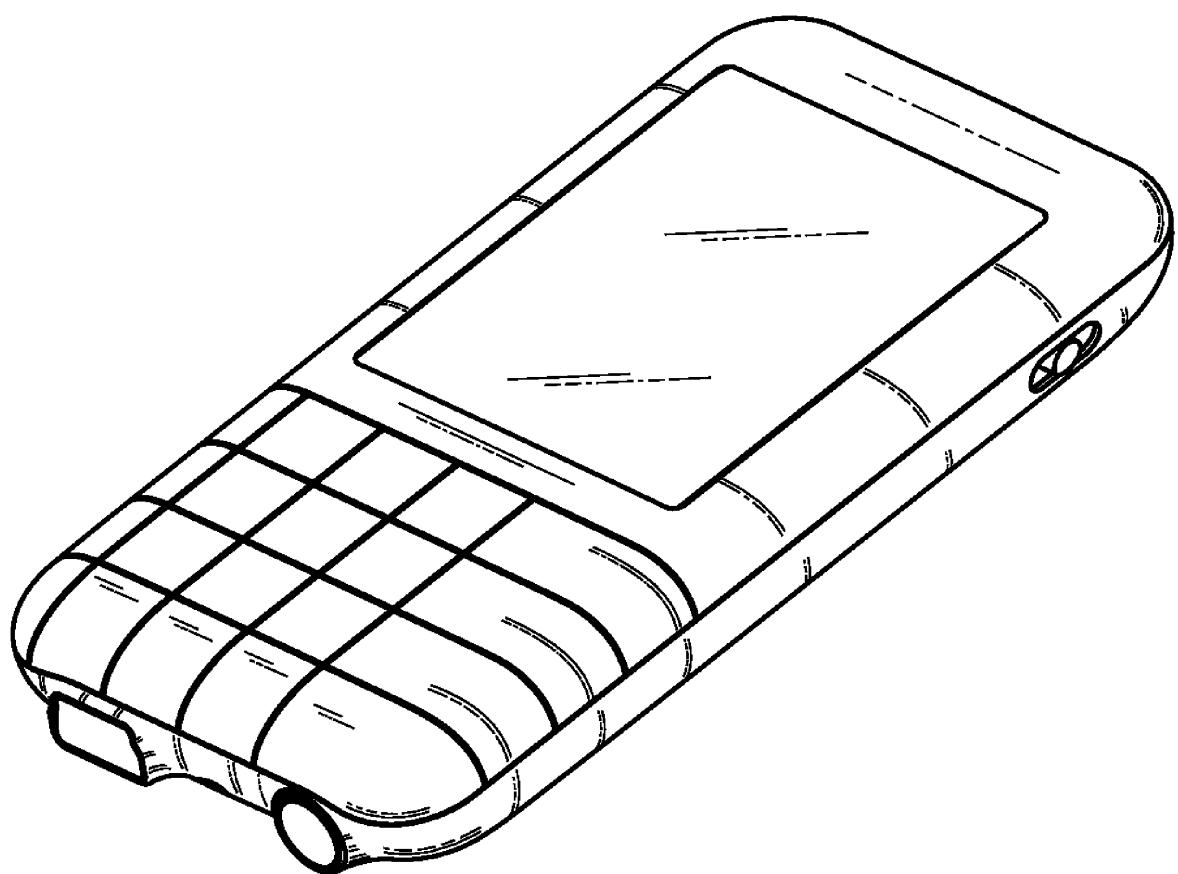


Fig. 241. Media player (USD605164)

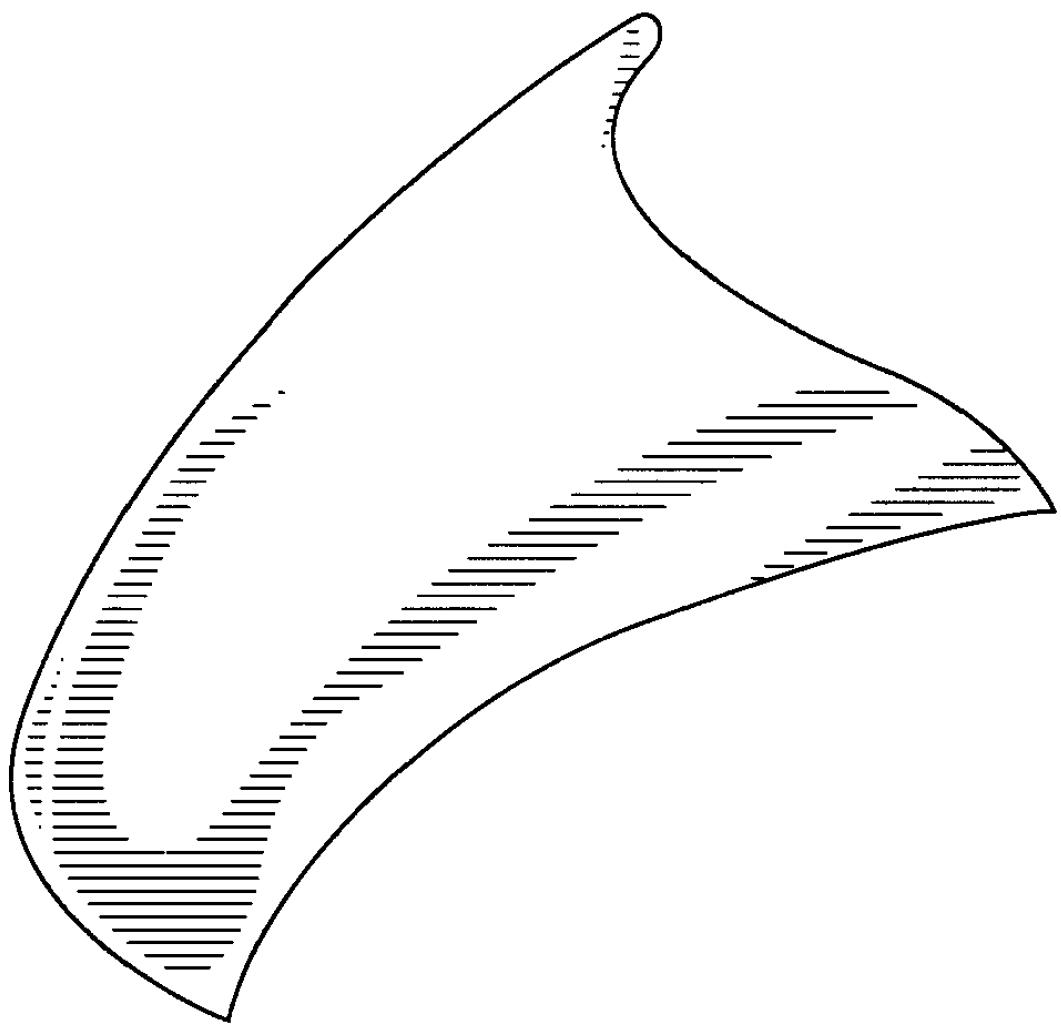


Fig. 242. Replaceable mouse cover (USD550224)

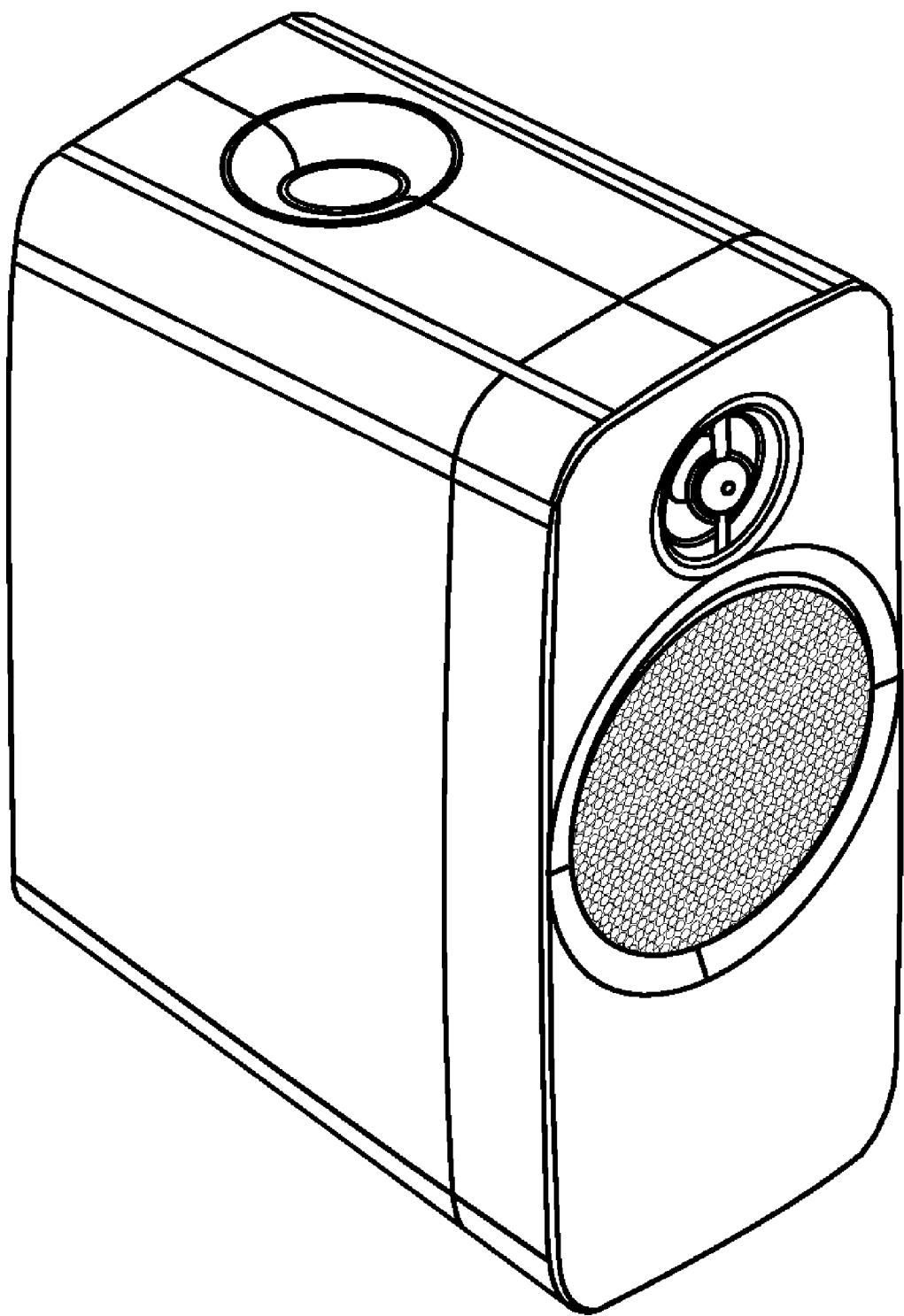


Fig. 243. Loudspeaker (USD578511)

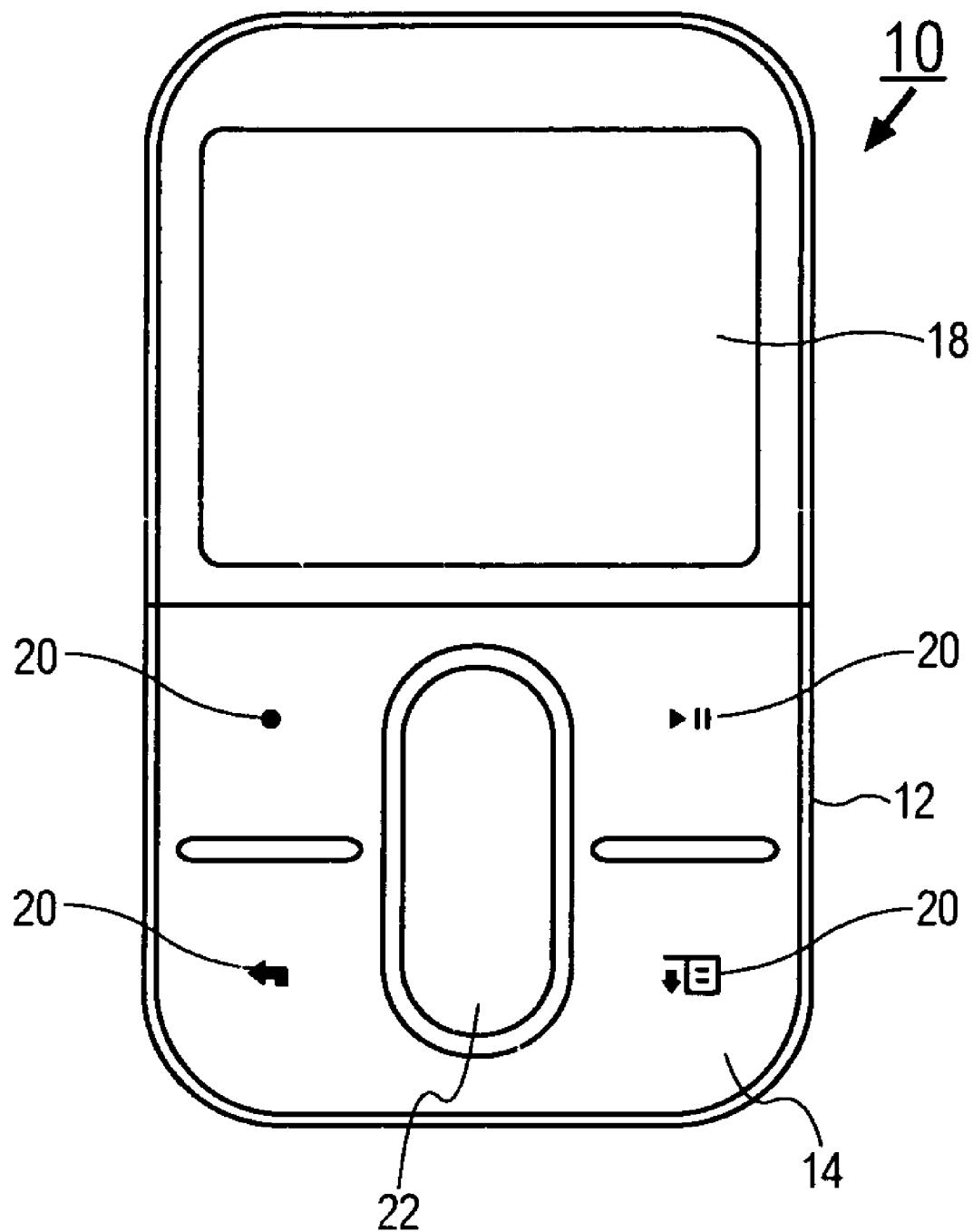


Fig. 244. Scrolling interface for media player (US2006012569)

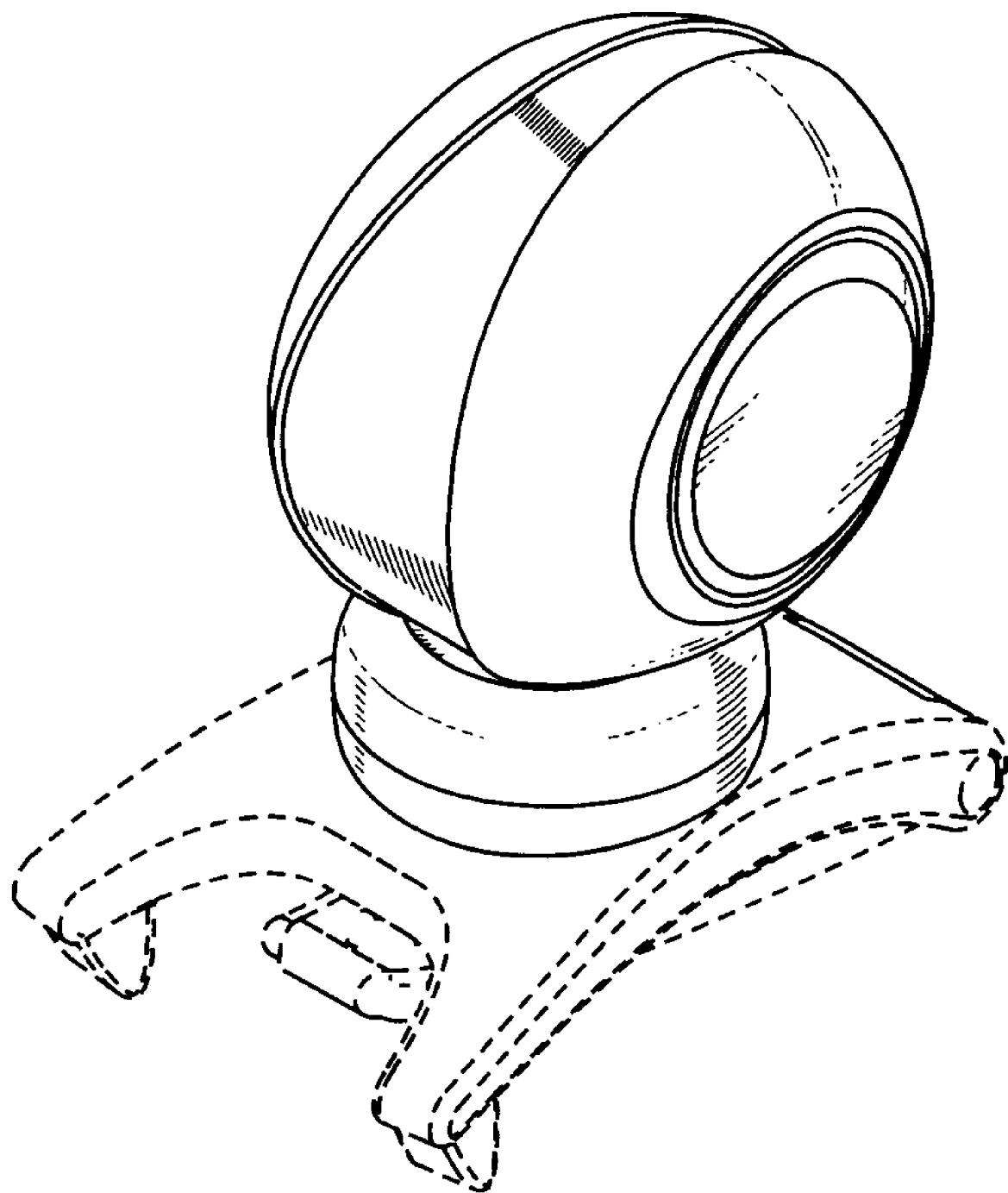


Fig. 245. Camera (USD523887)

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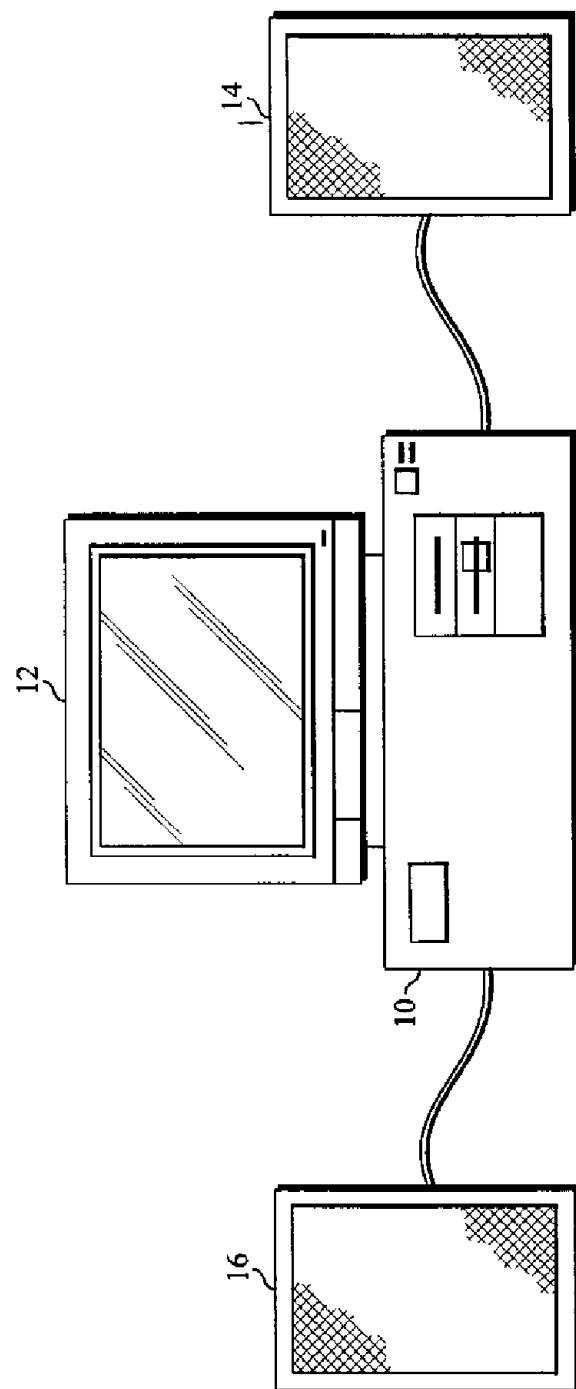
5,943,427*Fig. 1A*

Fig. 246. Method and apparatus for three dimensional audio spatialization (US5943427)

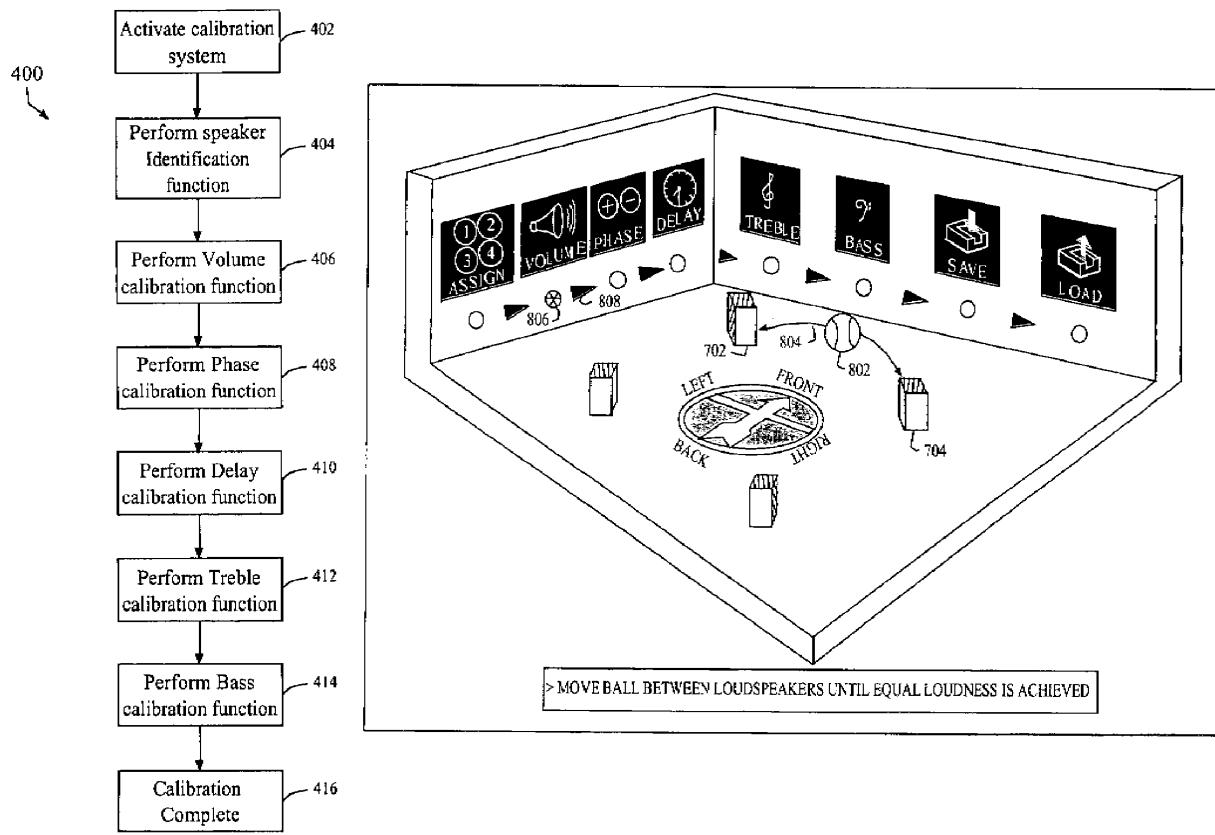


Fig. 247. Method and apparatus for multi channel sound system calibration (US6798889)

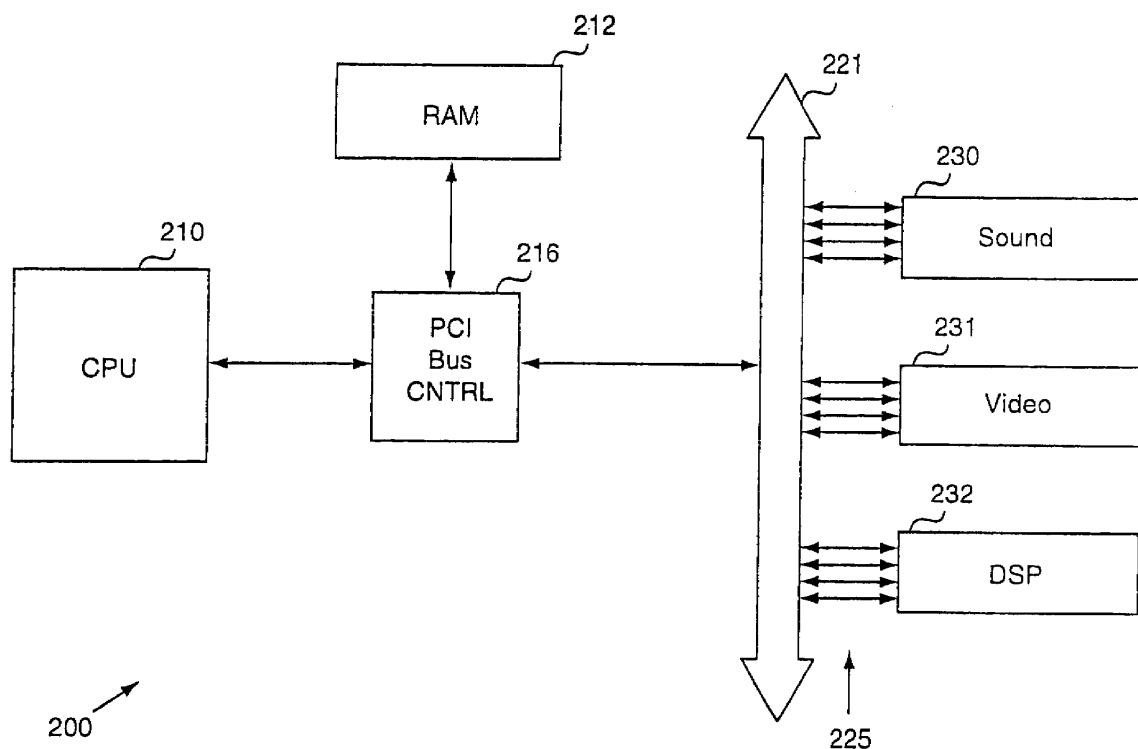


Fig. 248. Methods and apparatuses for managing multiple direct memory access channels (US6434645)

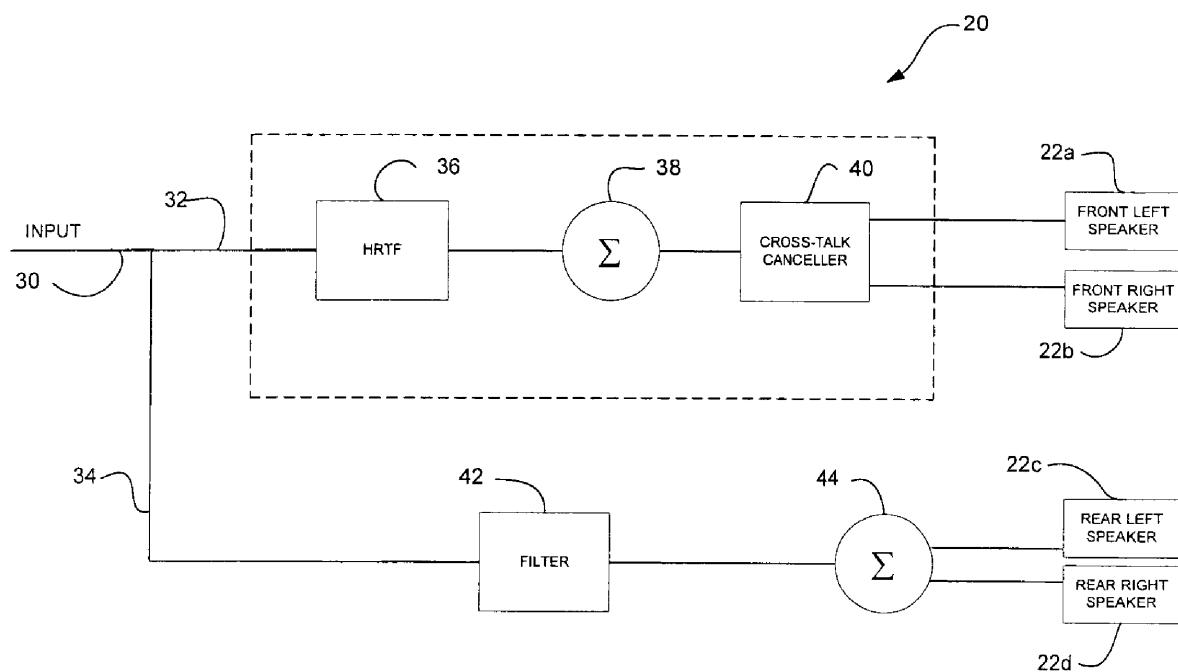


Fig. 249. Positional audio rendering (US6839438)

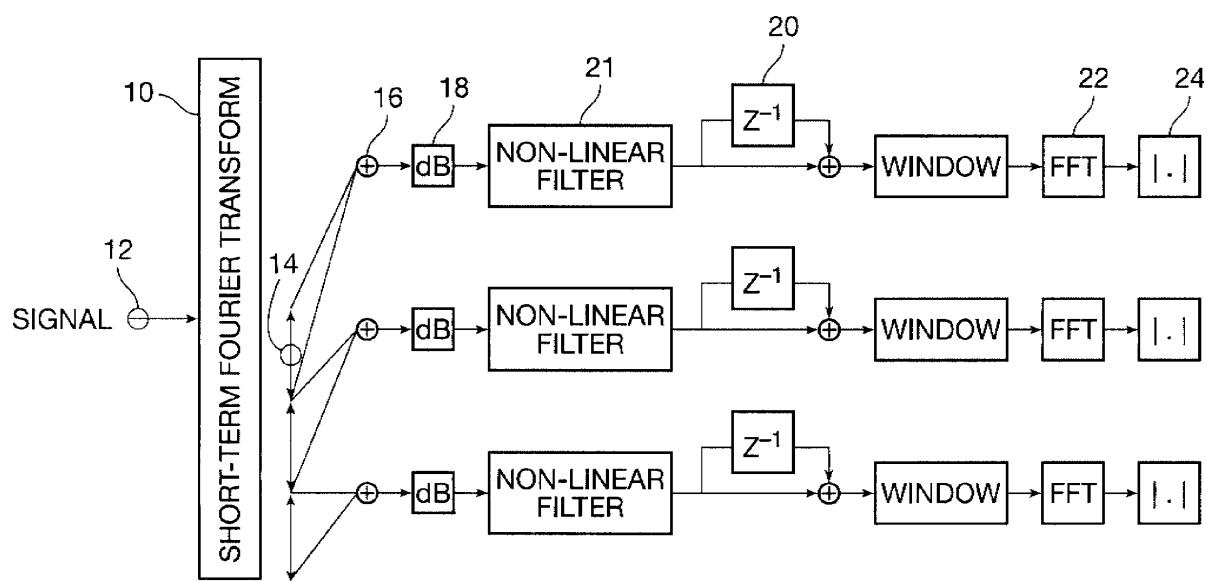


Fig. 250. Process for identifying audio content (US6453252)

U.S. Patent

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6,151,670

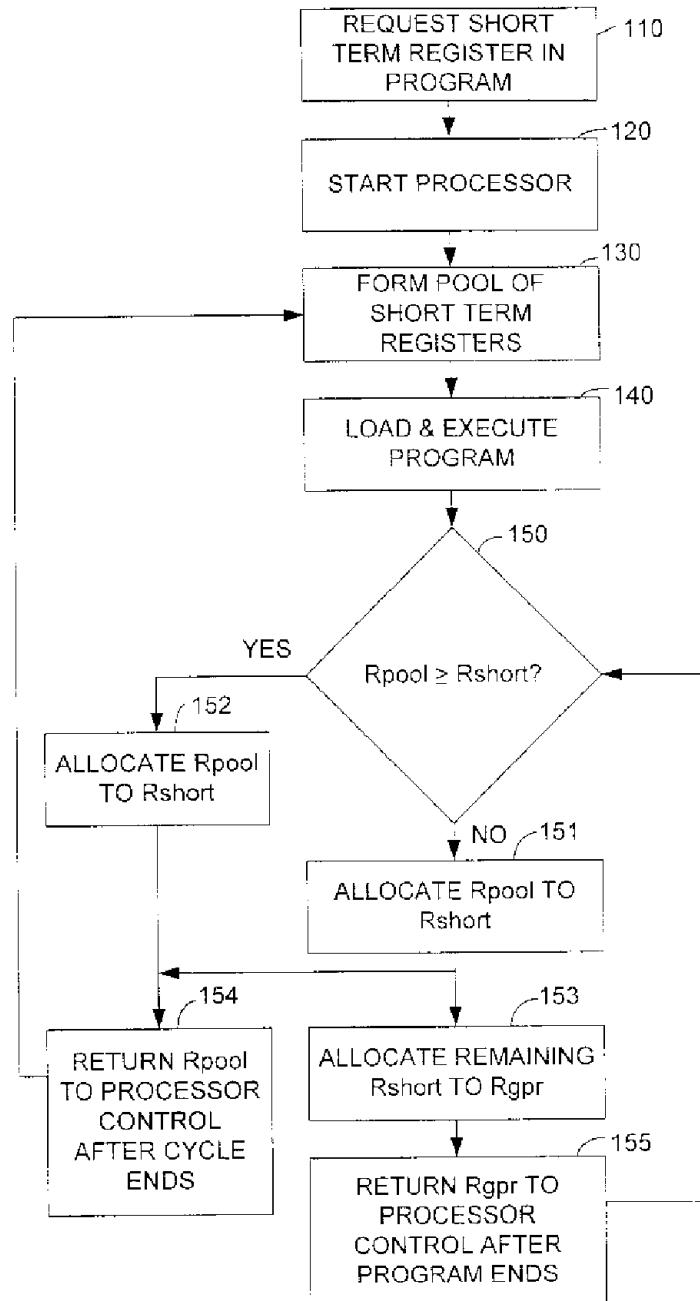


FIG. 1.

U.S. Patent

Feb. 25, 2003

Sheet 1 of 2

US 6,526,325 B1

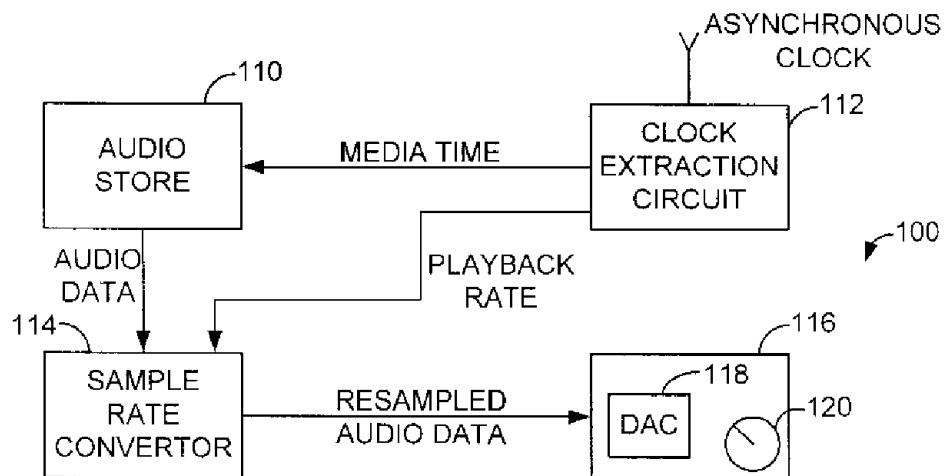


FIG. 1
PRIOR ART

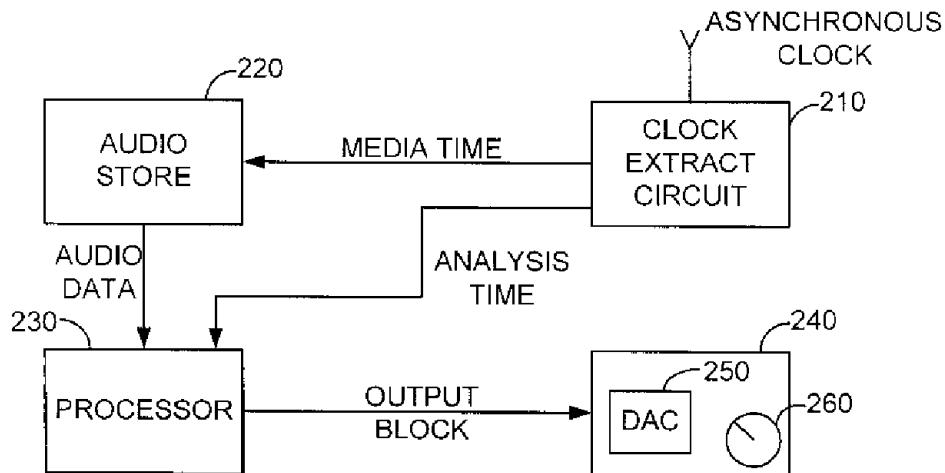


FIG. 2

U.S. Patent

Apr. 10, 2001

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US 6,213,880 B1

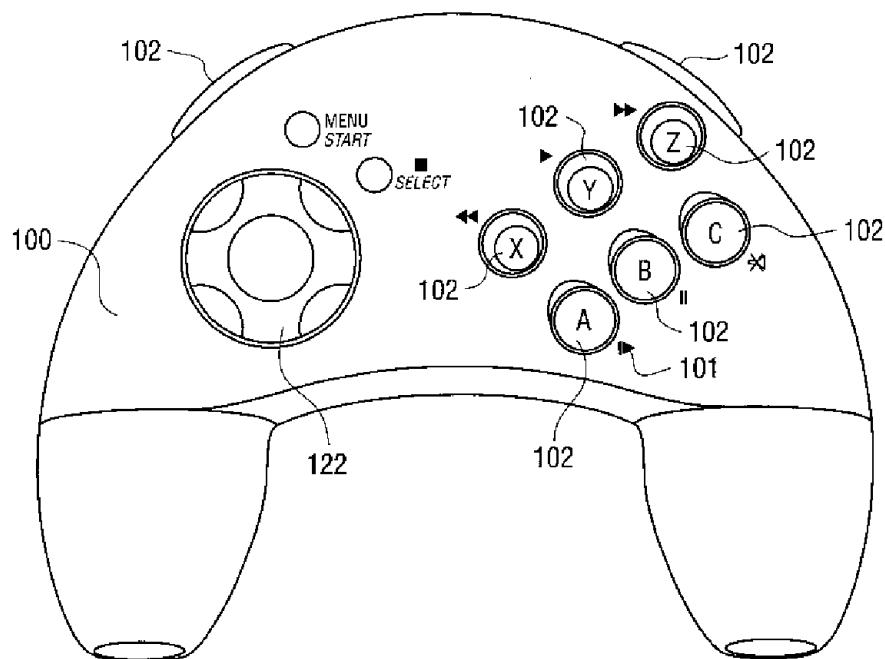


FIG. 1a

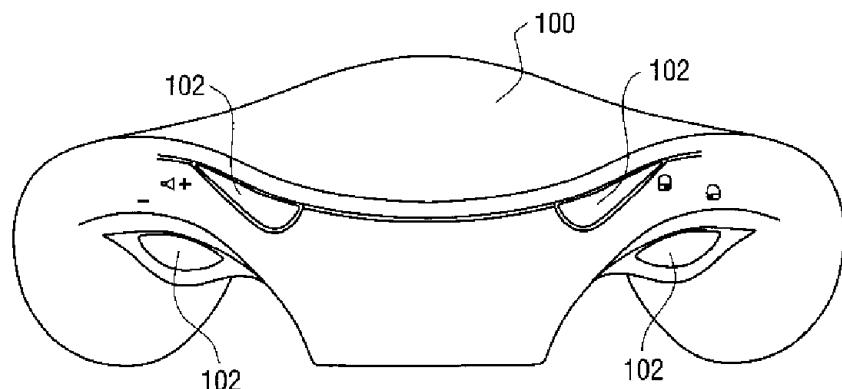


FIG. 1b

U.S. Patent

Aug. 14, 2001

Sheet 1 of 6

US 6,275,919 B1

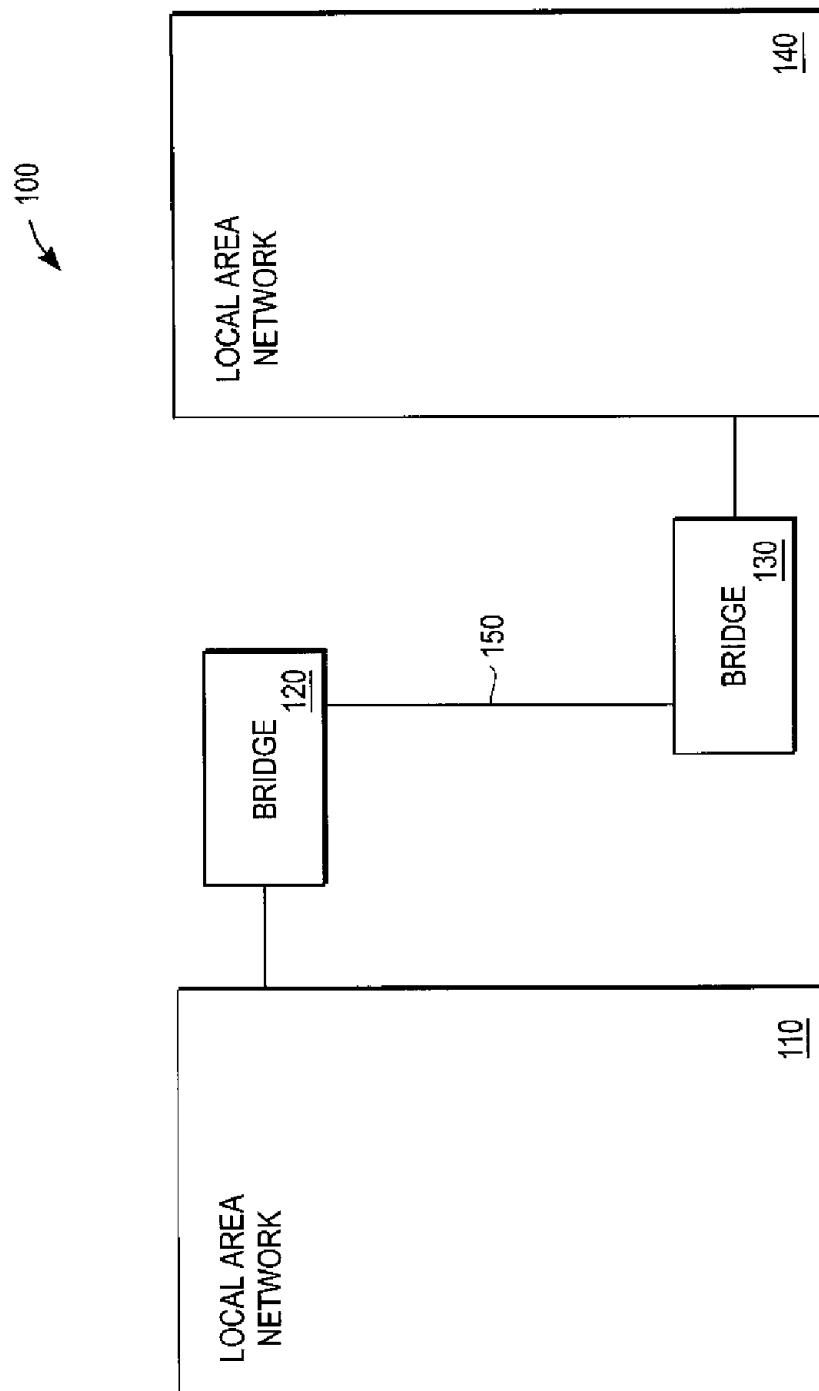


FIG. 1

Fig. 254. Memory storage and retrieval with multiple hashing functions (US6275919)

U.S. Patent

Nov. 13, 2001

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US 6,316,712 B1

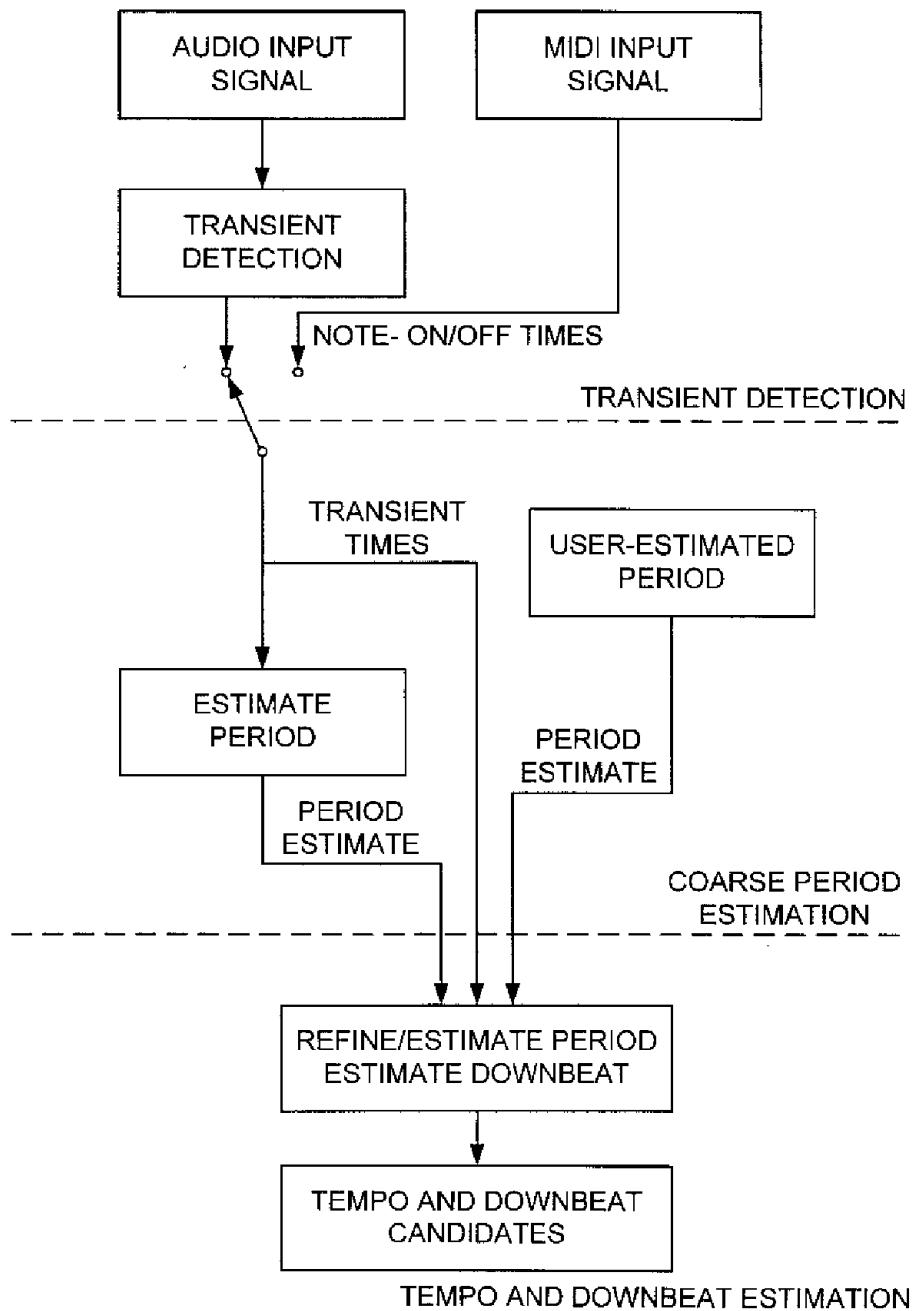


FIG. 1.

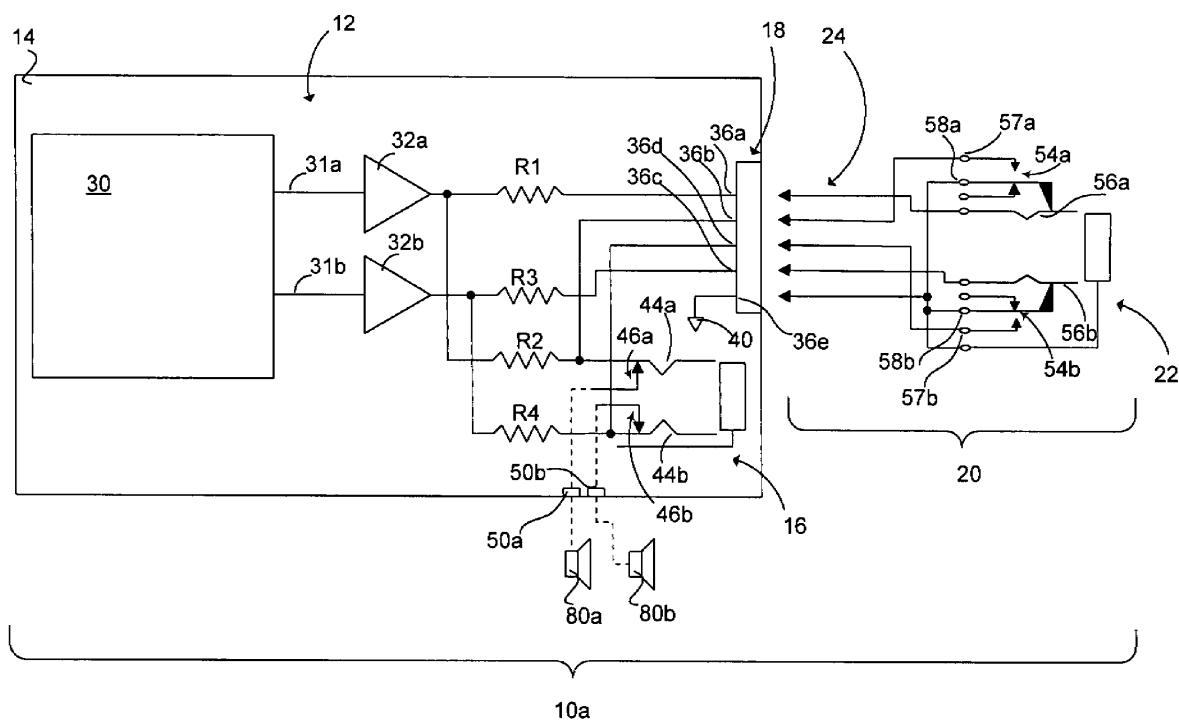


Fig. 256. Audio system with optional auto switching secondary connector and method for same (US6928175)

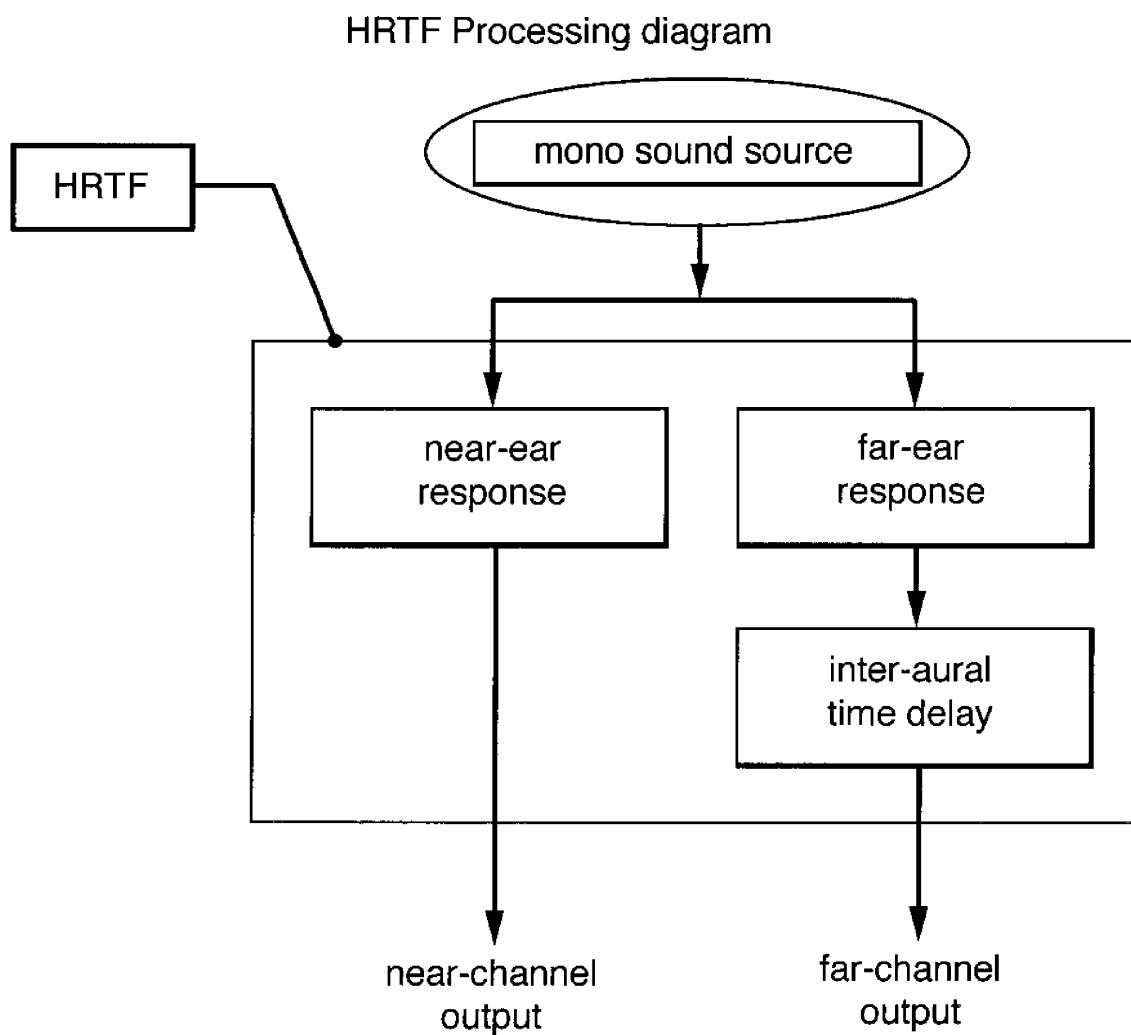


Fig. 257. Method of modifying one or more original head related transfer functions (US6795556)

U.S. Patent

Dec. 16, 1997

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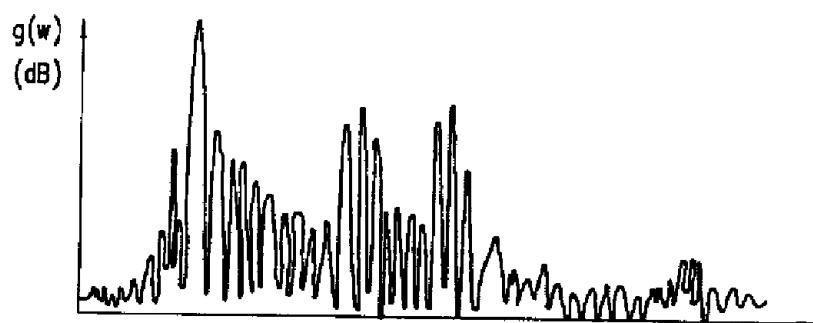
5,698,807

FIG. 1A FREQUENCY

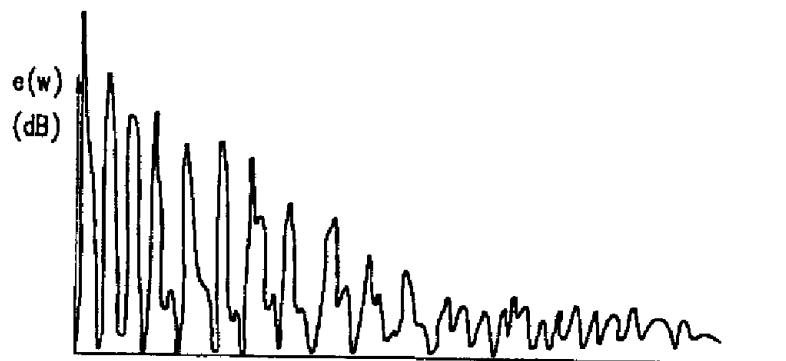


FIG. 1B FREQUENCY

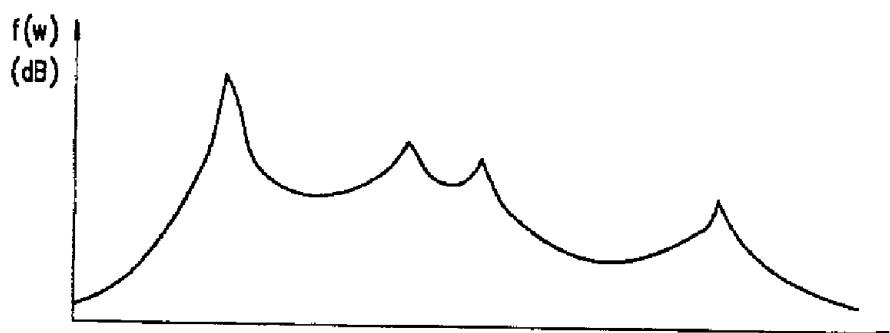


FIG. 1C FREQUENCY

U.S. Patent

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6,049,766

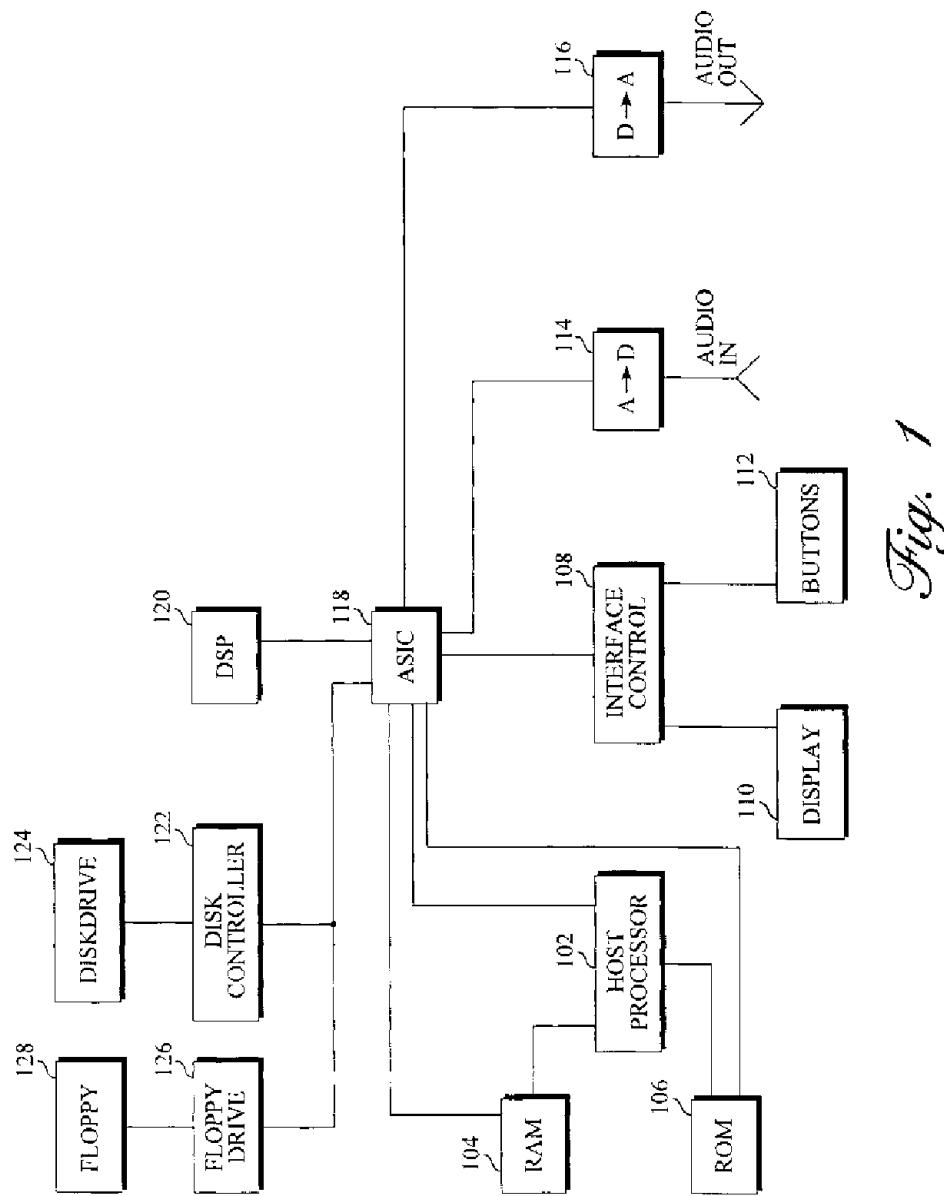
*Fig. 1*

Fig. 259. Time domain time/pitch scaling of speech or audio signals with transient handling (US6049766)

U.S. Patent

Feb. 3, 2004

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US 6,687,664 B1

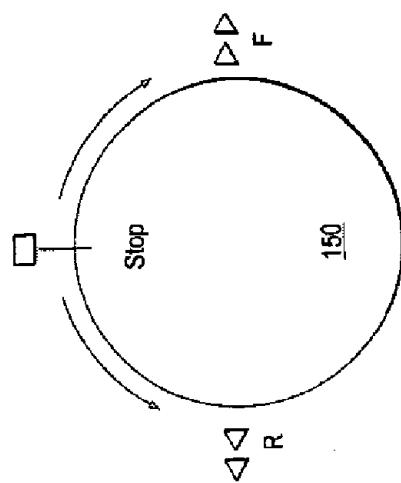


FIG. 1B

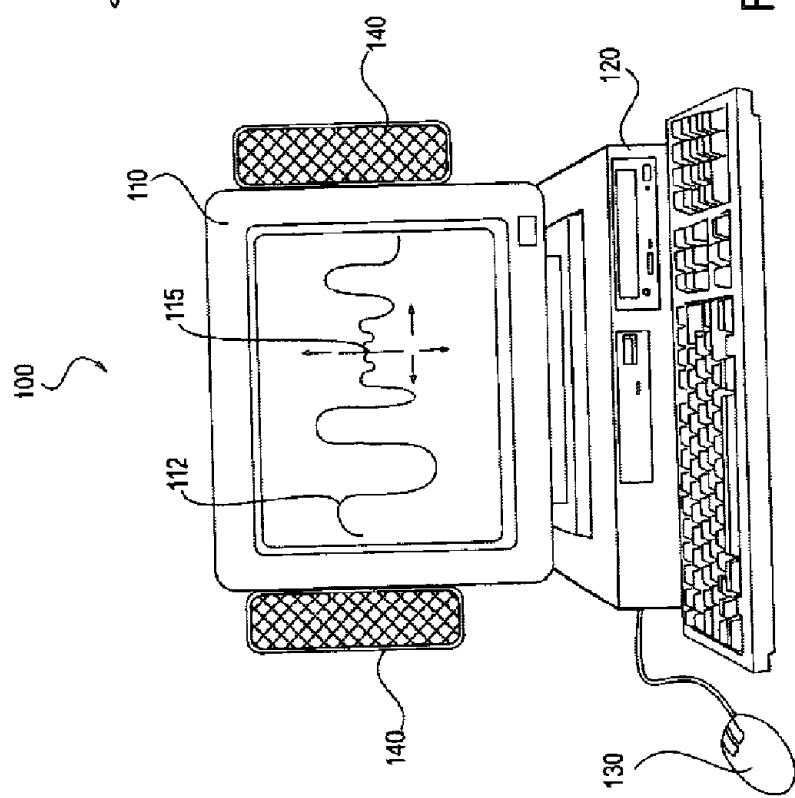


FIG. 1A

Fig. 260. Audio visual scrubbing system (US6687664)

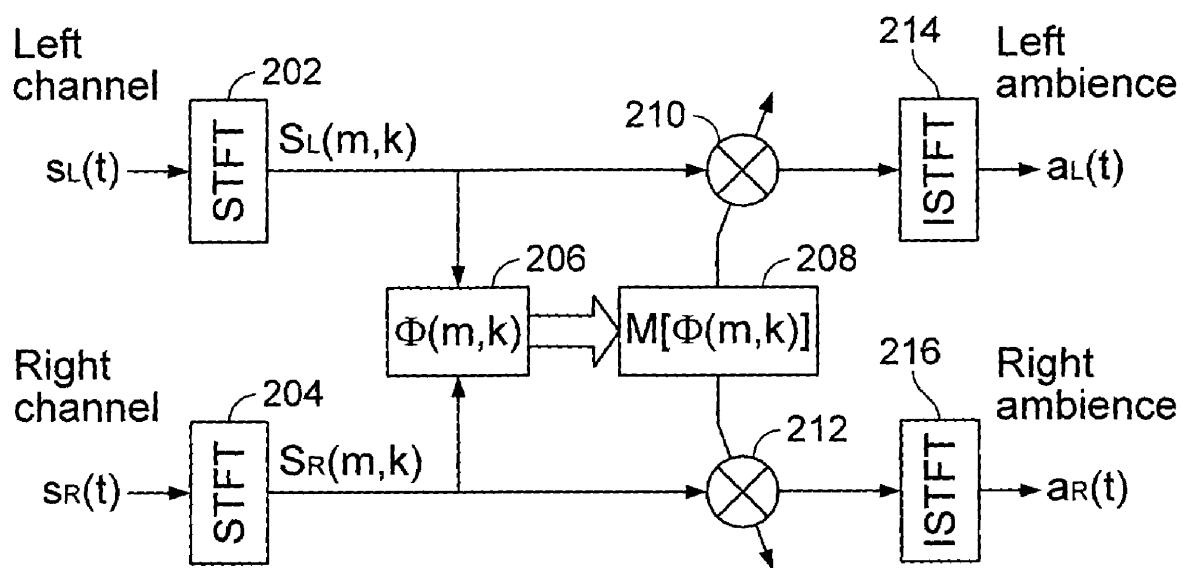


Fig. 261. Ambience generation for stereo signals (US7567845)

U.S. Patent

Jan. 26, 1999

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5,864,876

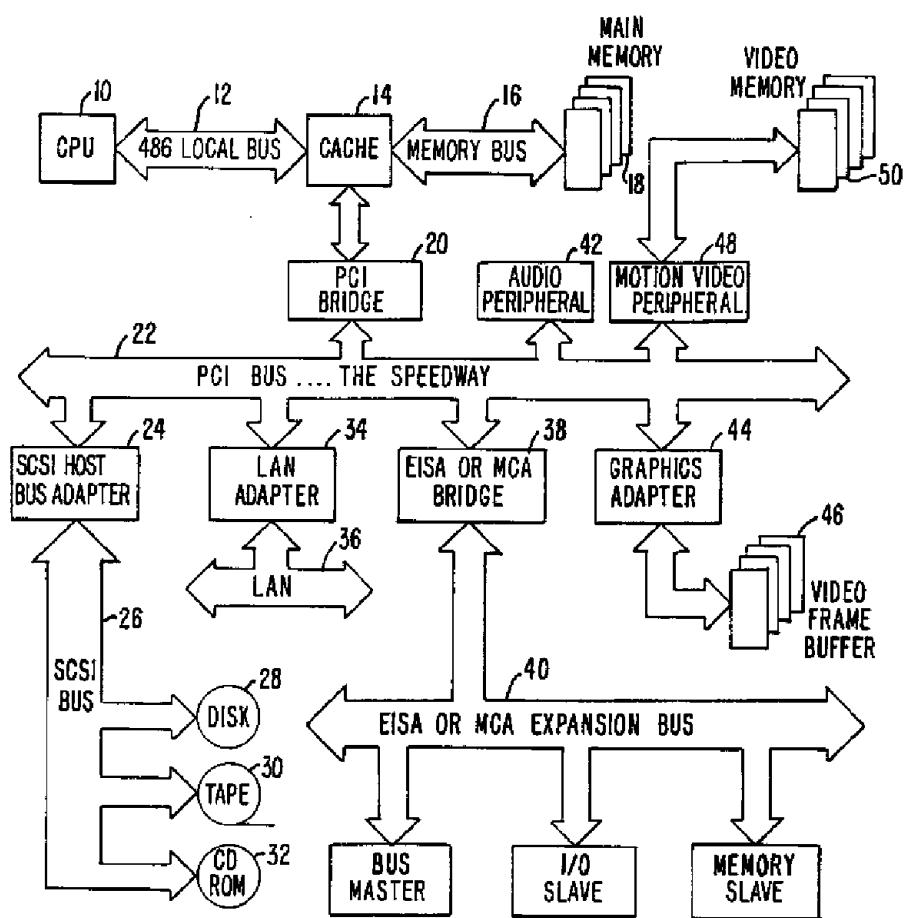


FIG. 1.

U.S. Patent

Jun. 11, 2002

Sheet 1 of 2

US 6,405,163 B1

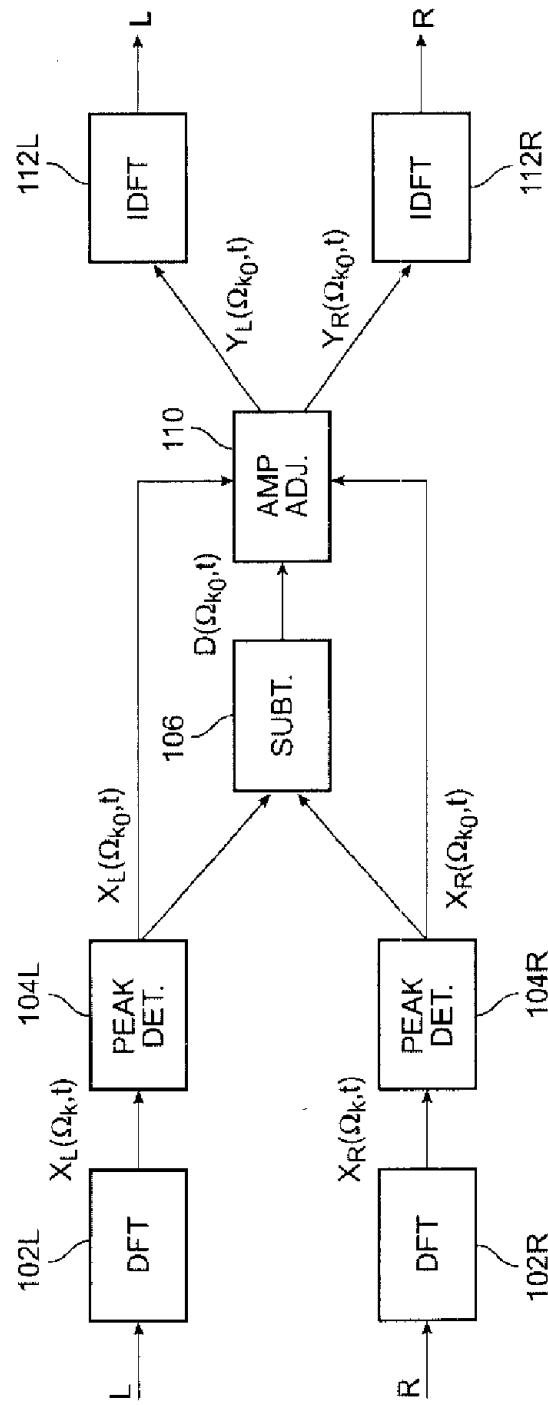


FIG. 1

Fig. 263. Process for removing voice from stereo recordings (US6405163)

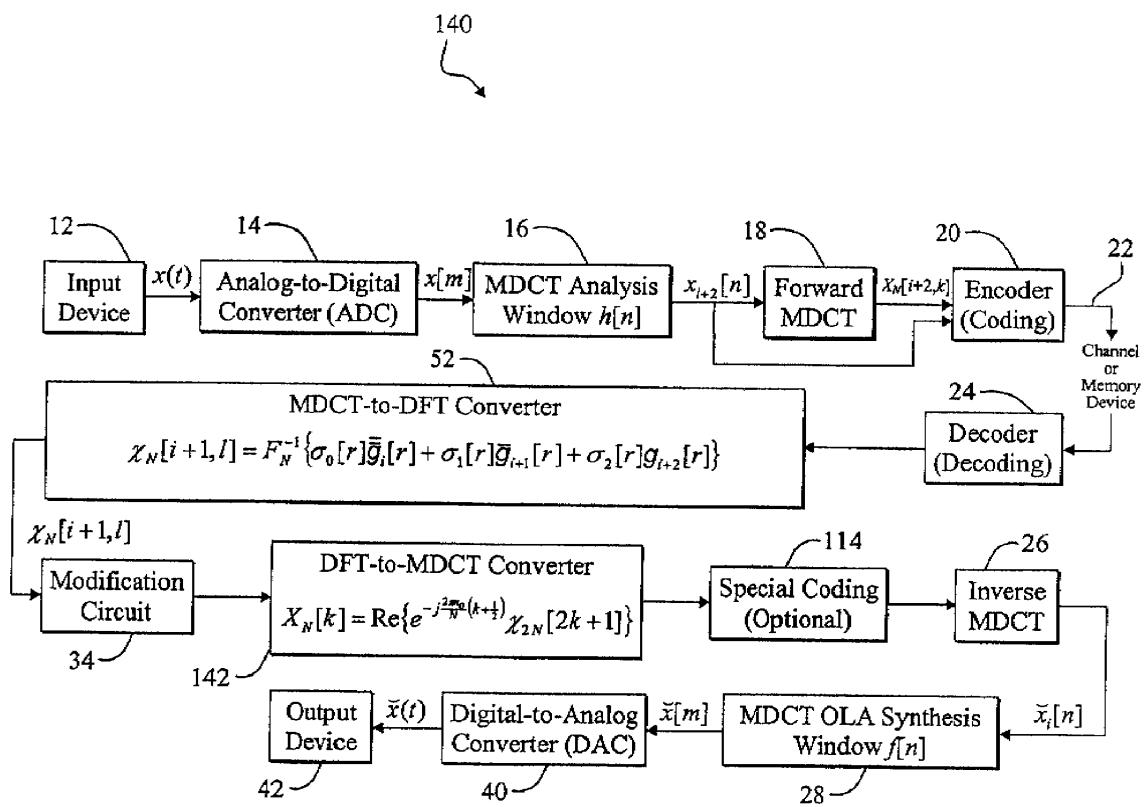


Fig. 264. Efficient system and method for converting between different transform domain signal representations (US6963842)

U.S. Patent

Jun. 12, 2007

Sheet 1 of 13

US 7,231,054 B1

FIG. 1

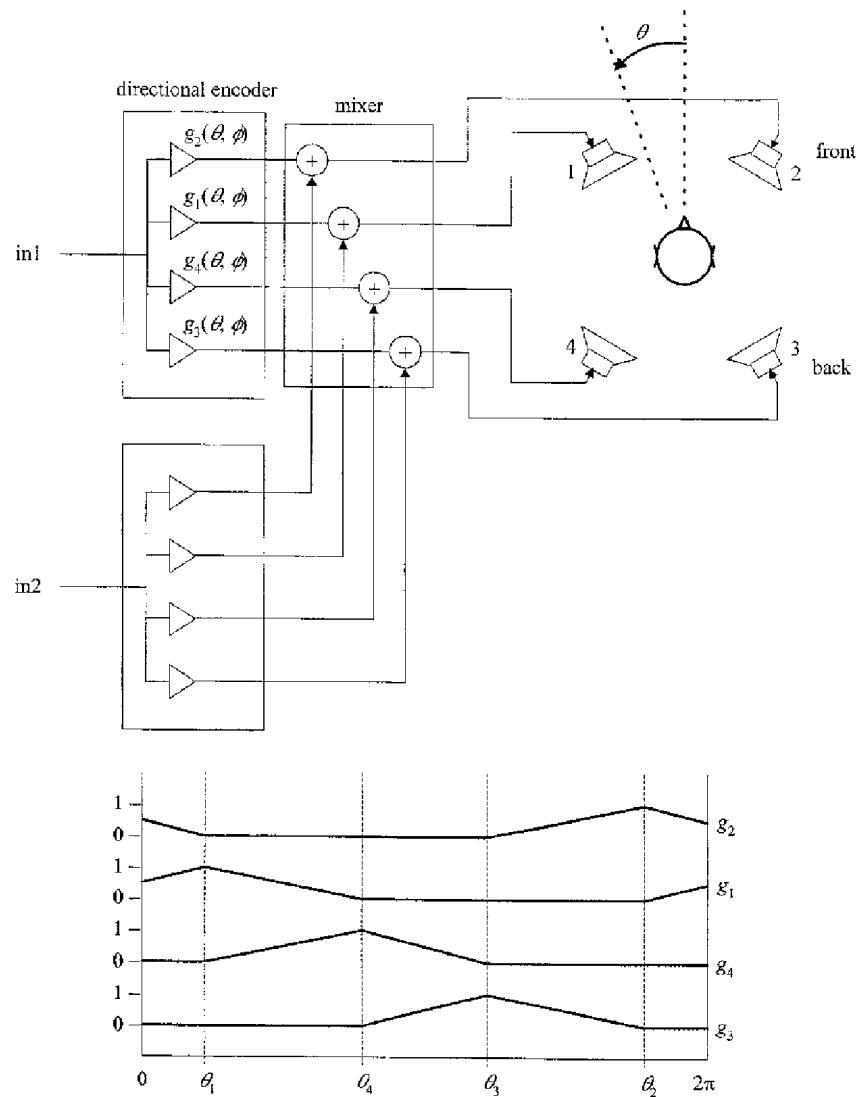


Fig. 265. Method and apparatus for three dimensional audio display (US7231054)

U.S. Patent

May 7, 2002

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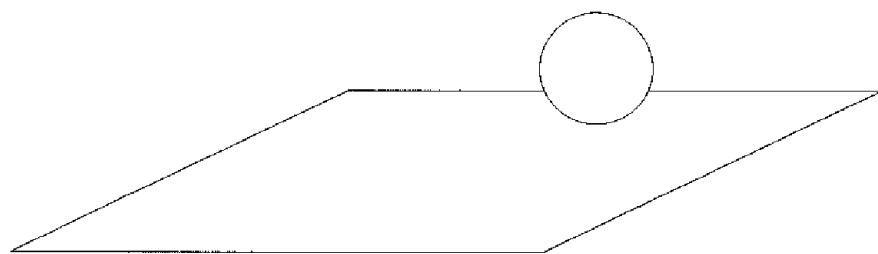
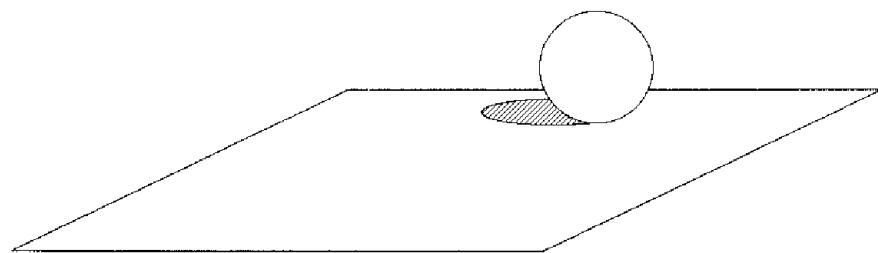
US 6,384,822 B1**FIG. 1A****FIG. 1B**

Fig. 266. Method for rendering shadows using a shadow volume and a stencil buffer (US6384822)

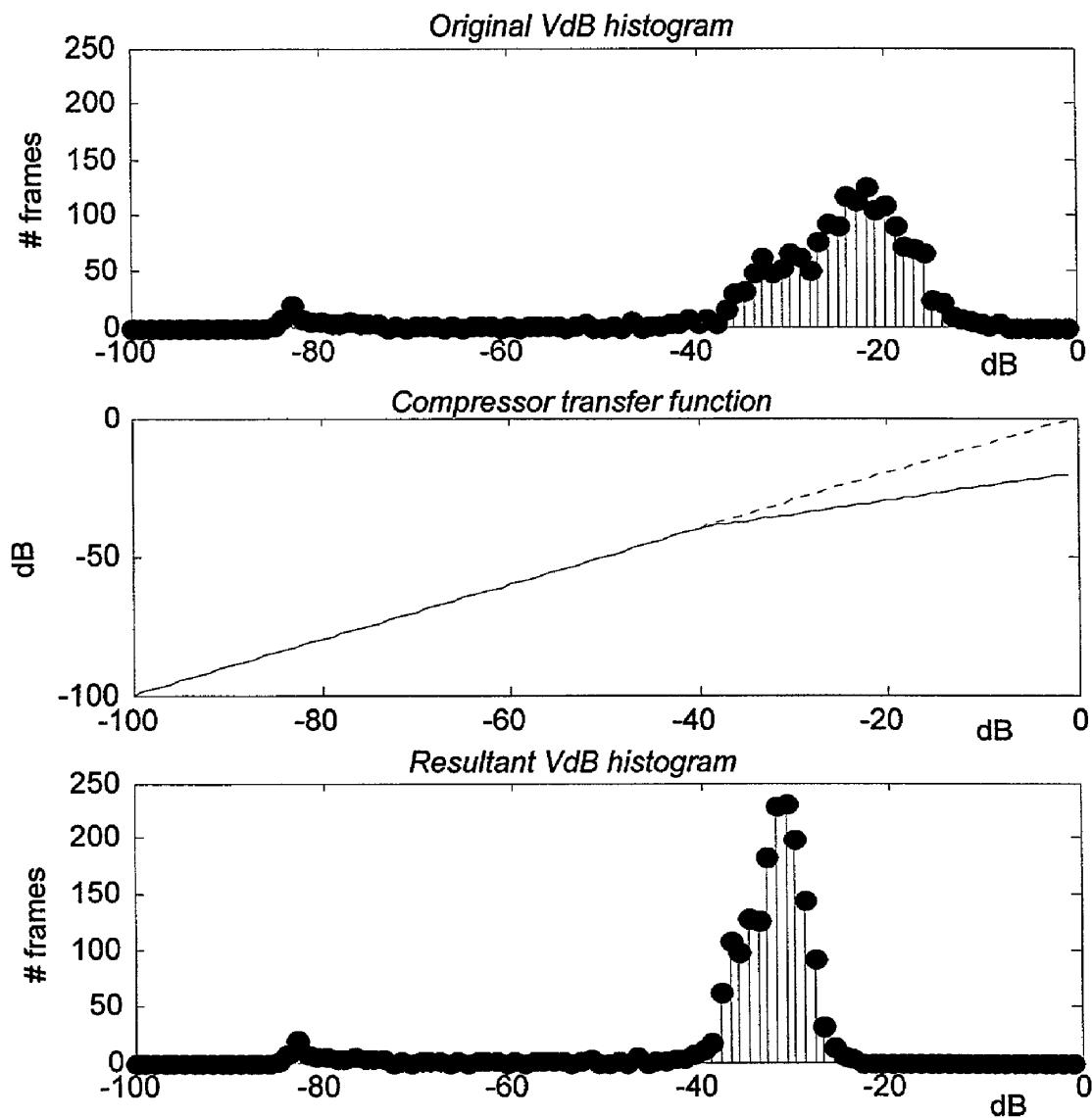


Fig. 267. Method and apparatus for audio loudness and dynamics matching (US7848531)

U.S. Patent

Apr. 15, 2003

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US 6,549,884 B1

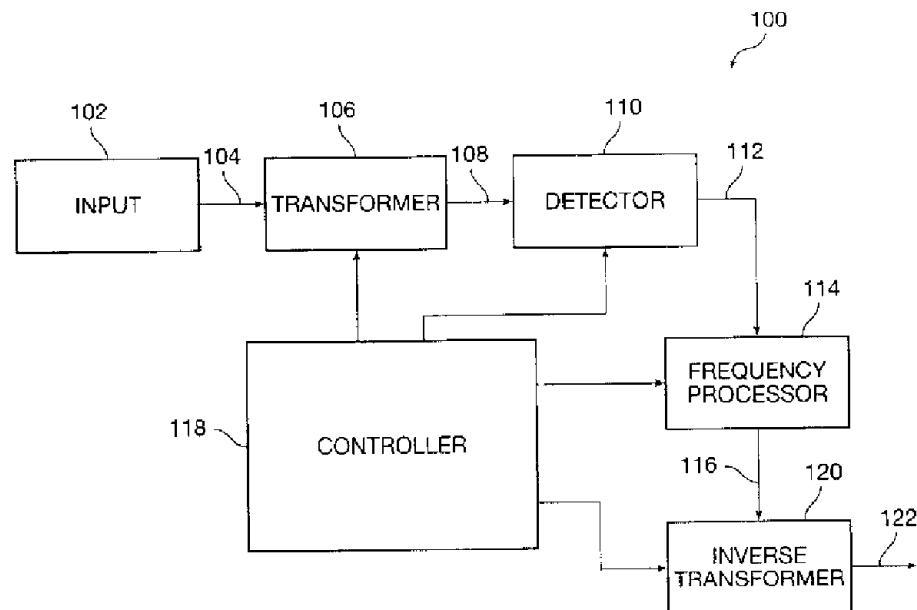


FIG. 1

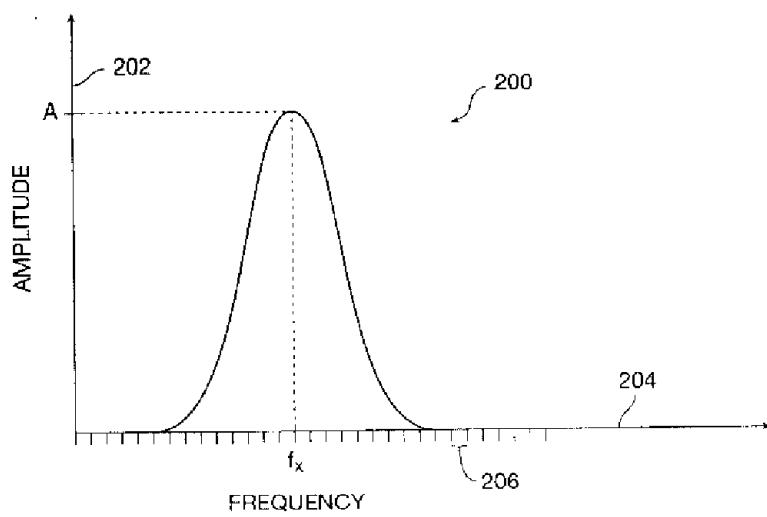


FIG. 2

U.S. Patent

Dec. 30, 2003

Sheet 1 of 3

US 6,671,743 B1

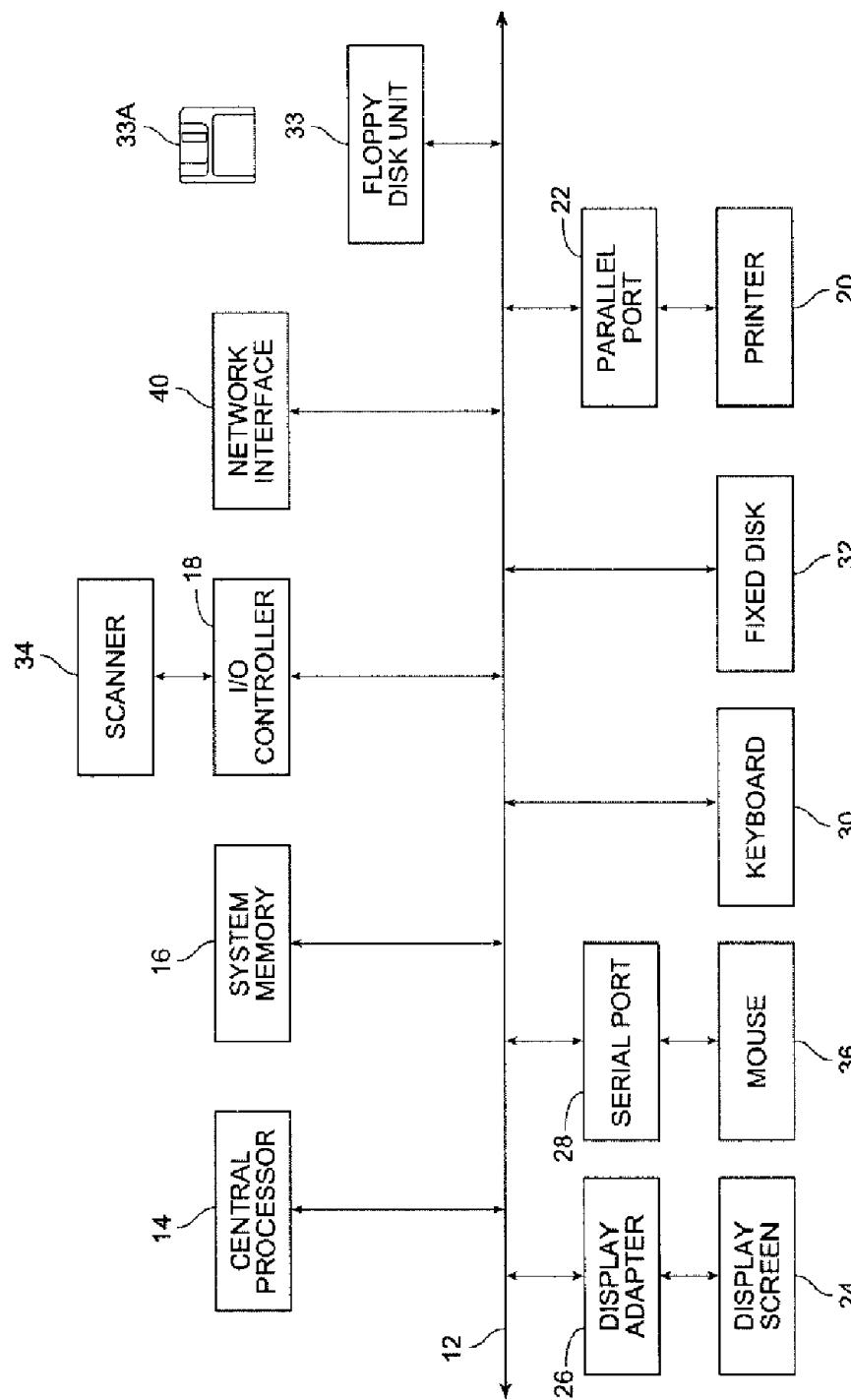


FIG. 1

Fig. 269. Method and system for exposing proprietary APIs in a privileged device driver to an application (US6671743)

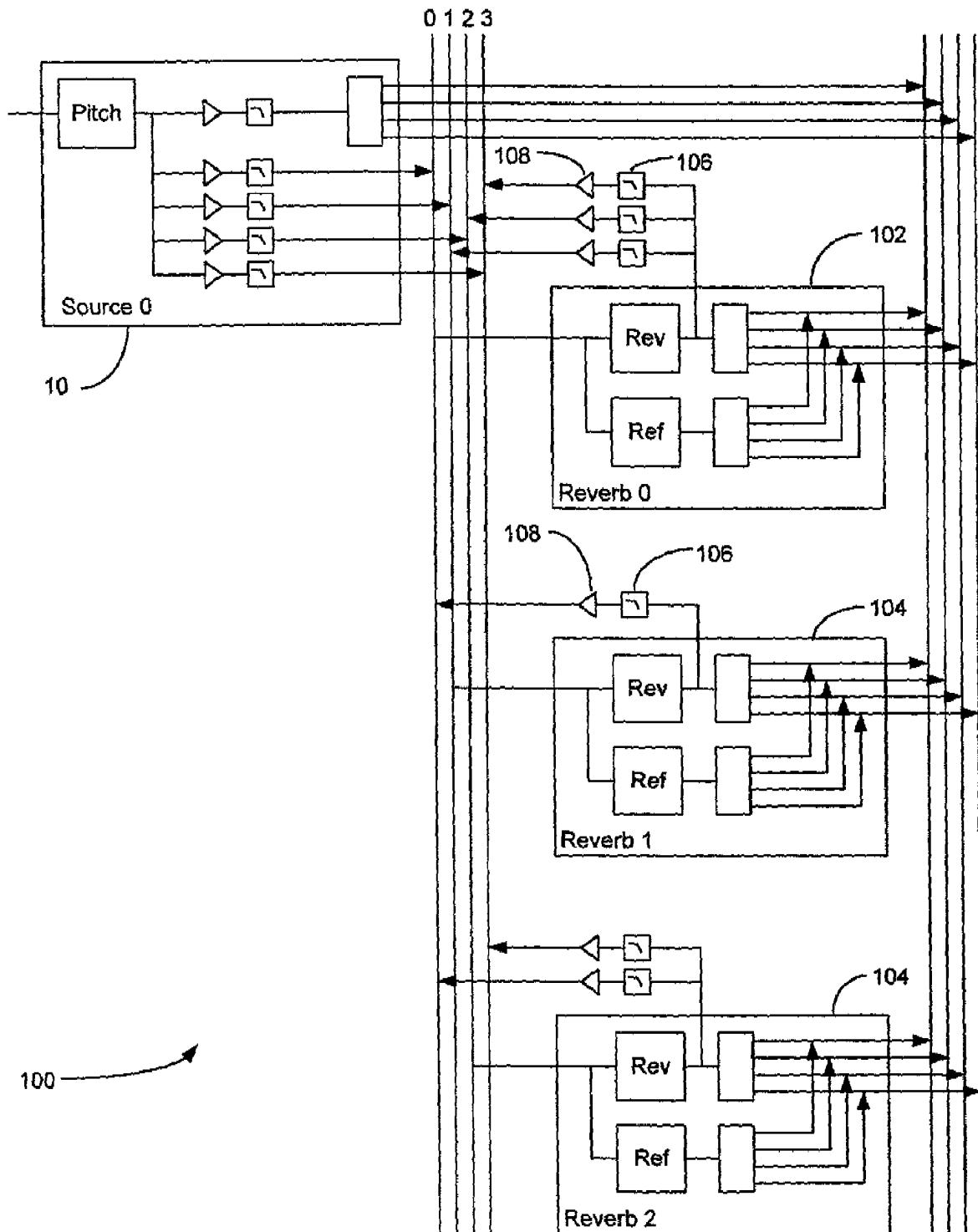


Fig. 270. Method and apparatus for the simulation of complex audio environments (US7099482)

U.S. Patent

Apr. 9, 2002

Sheet 1 of 3

US 6,369,822 B1

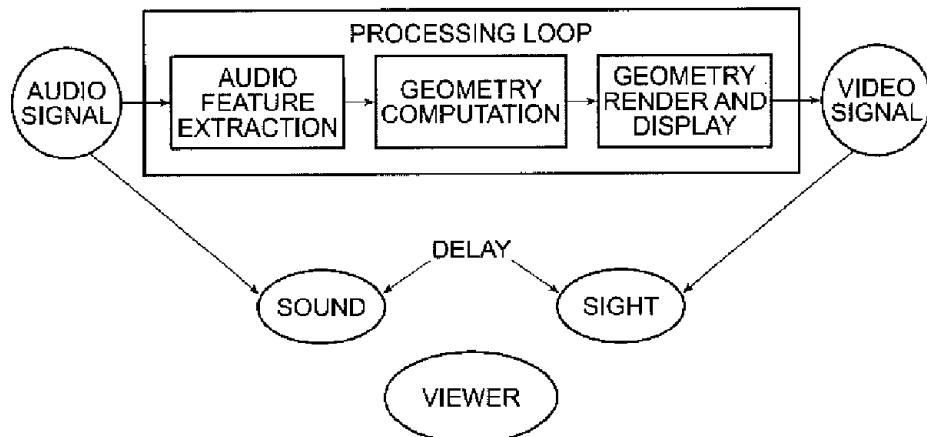


FIG. 1A

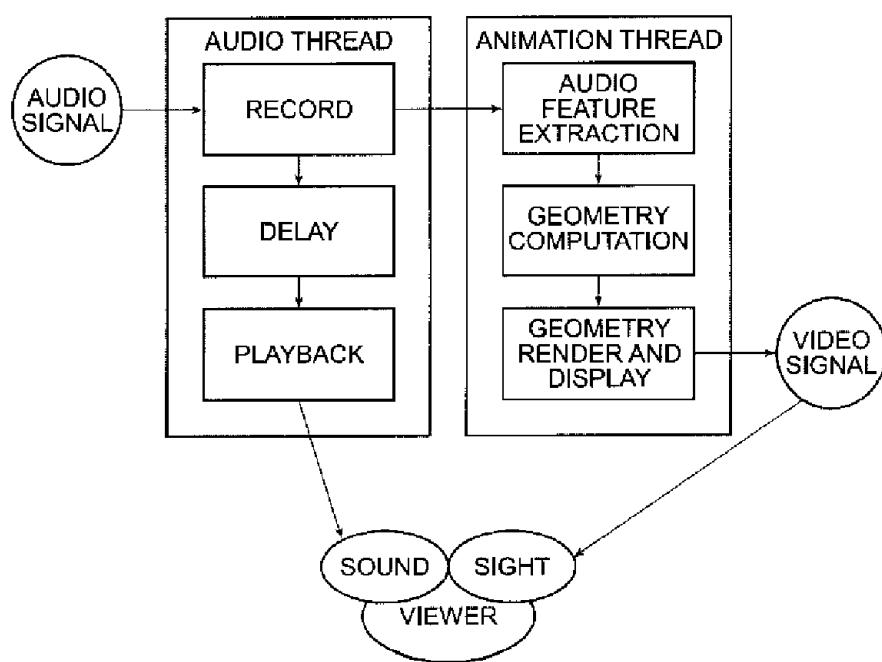


FIG. 1B

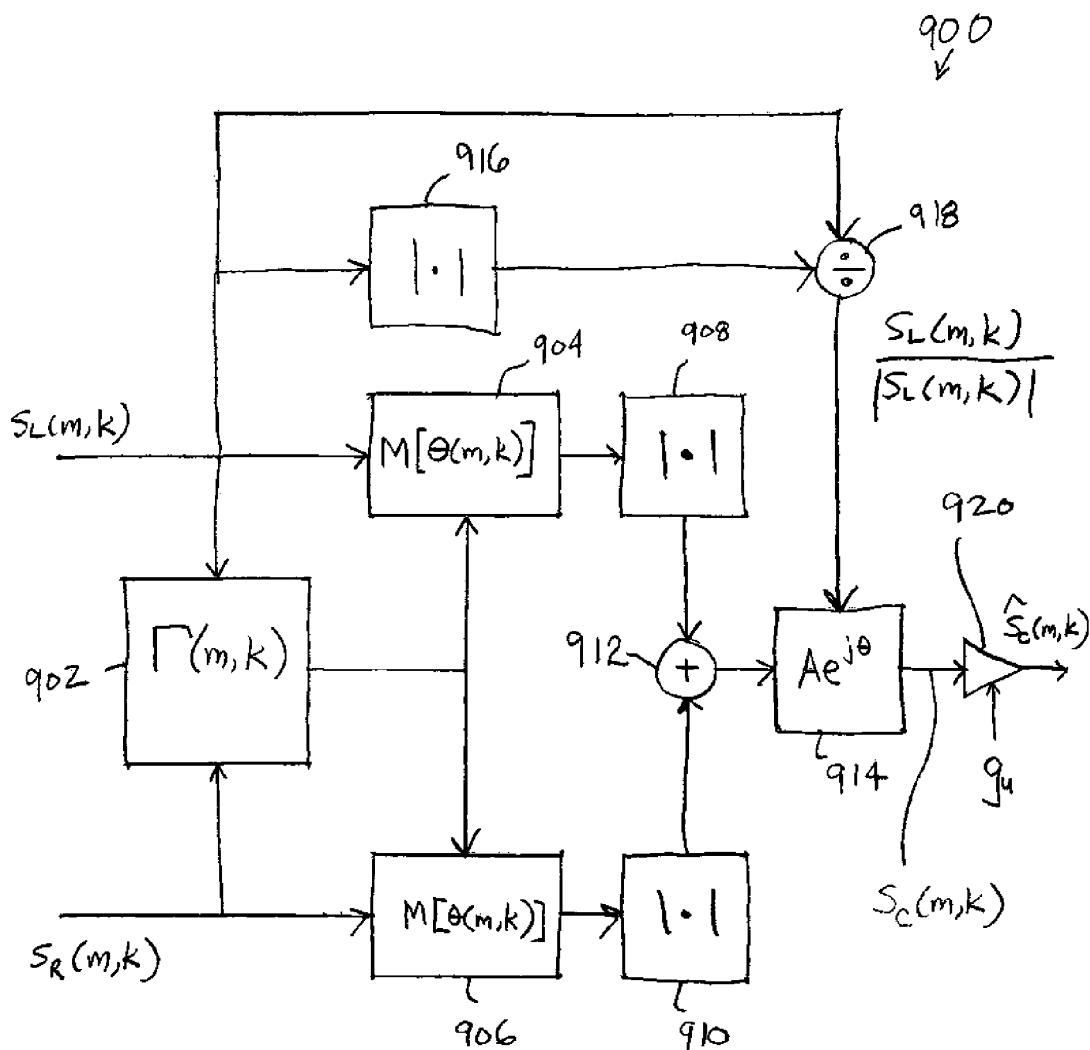


Fig. 272. Extracting and modifying a panned source for enhancement and upmix of audio signals (US7970144)

U.S. Patent

Jun. 18, 1996

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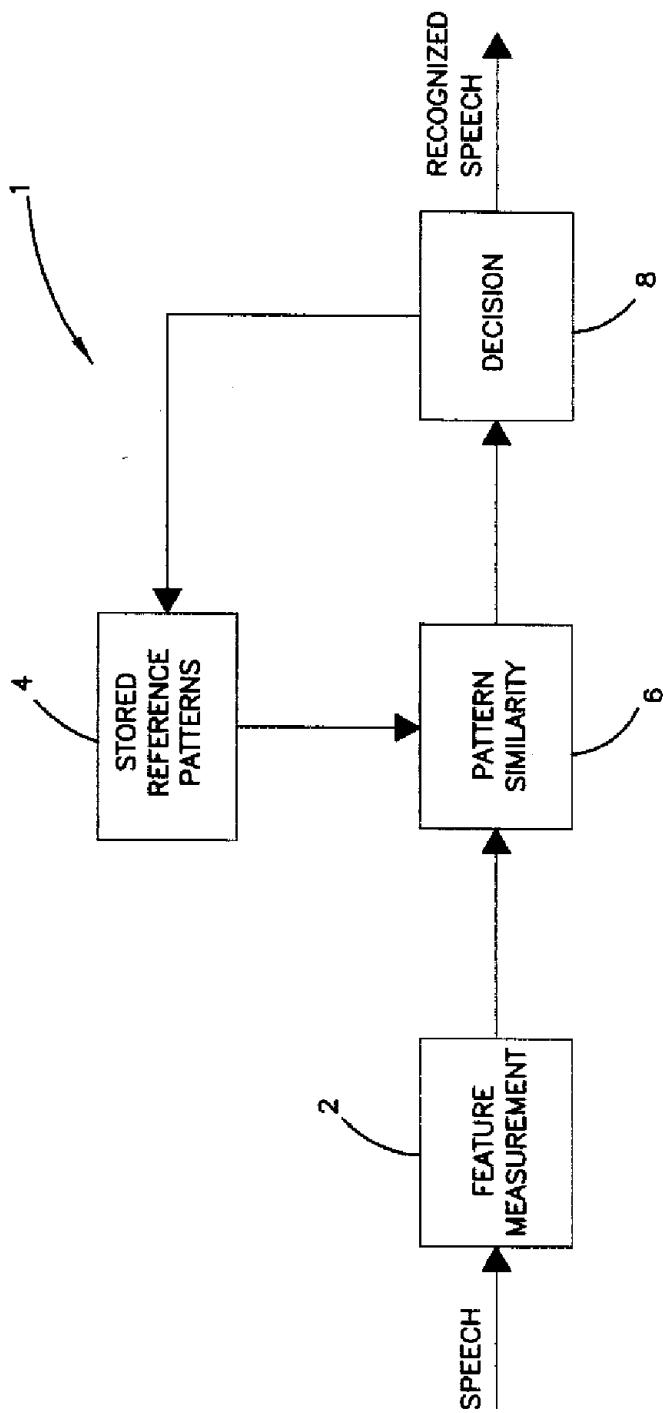
5,528,725

FIG. 1

Fig. 273. Method and apparatus for recognizing speech by using wavelet transform and transient response therefrom (US5528725)

U.S. Patent

Jul. 27, 1999

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5,928,342

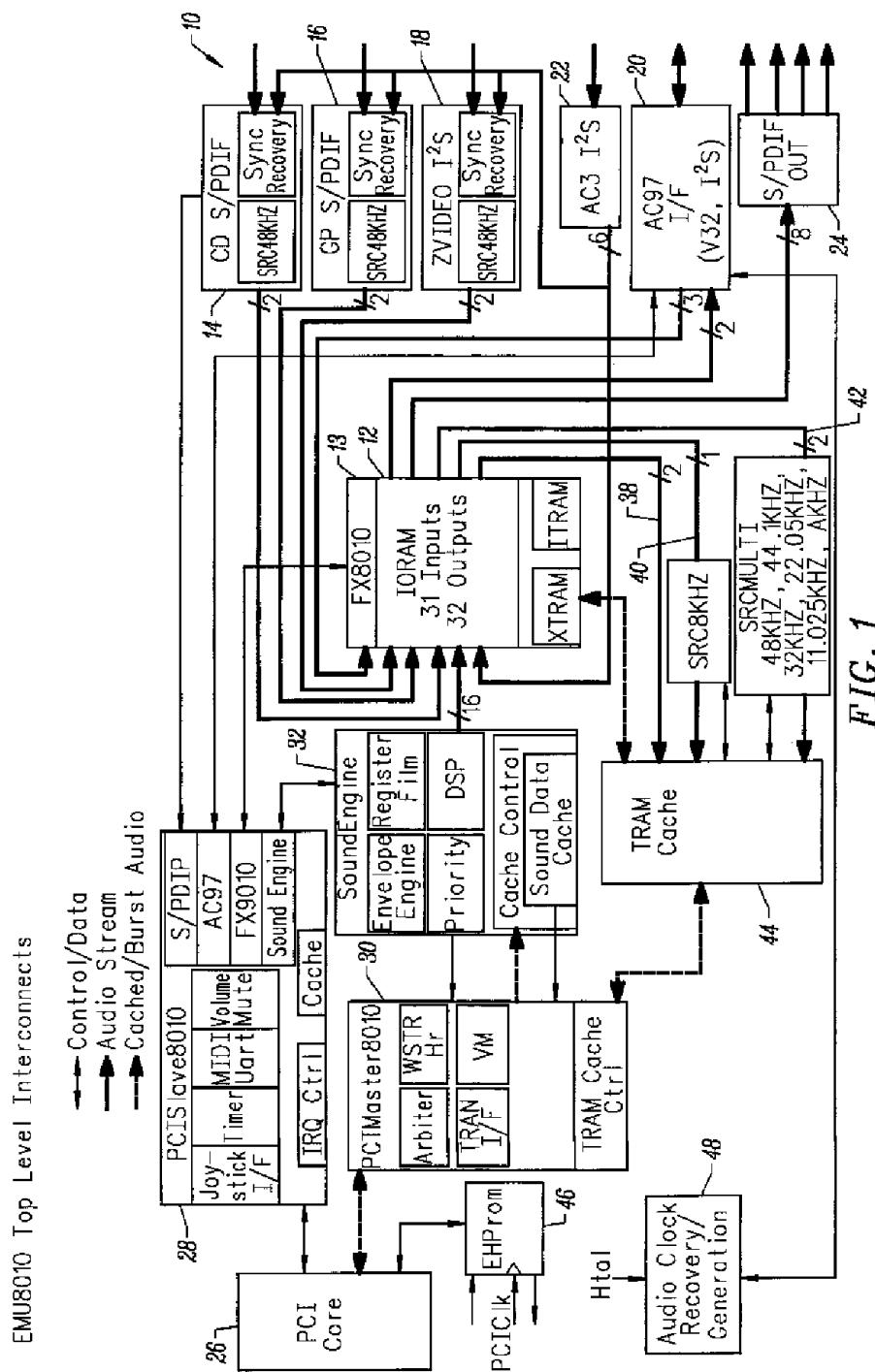


FIG. 1

Fig. 274. Audio effects processor integrated on a single chip with a multiport memory onto which multiple asynchronous digital sound samples can be concurrently loaded (US5928342)

U.S. Patent

Jan. 30, 2001

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US 6,182,042 B1

FIG. 1

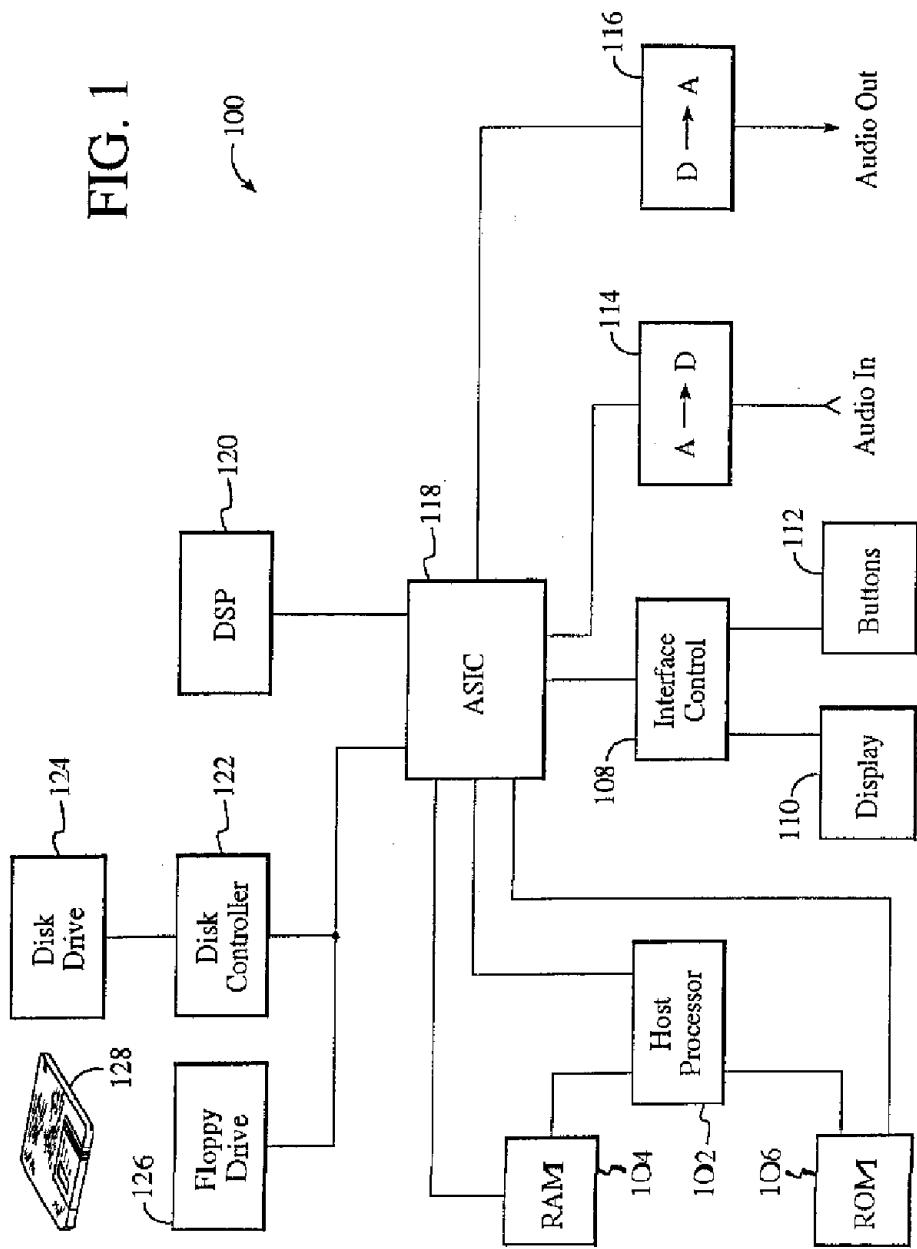


Fig. 275. Sound modification employing spectral warping techniques (US6182042)

U.S. Patent

Apr. 23, 2002

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US 6,377,265 B1

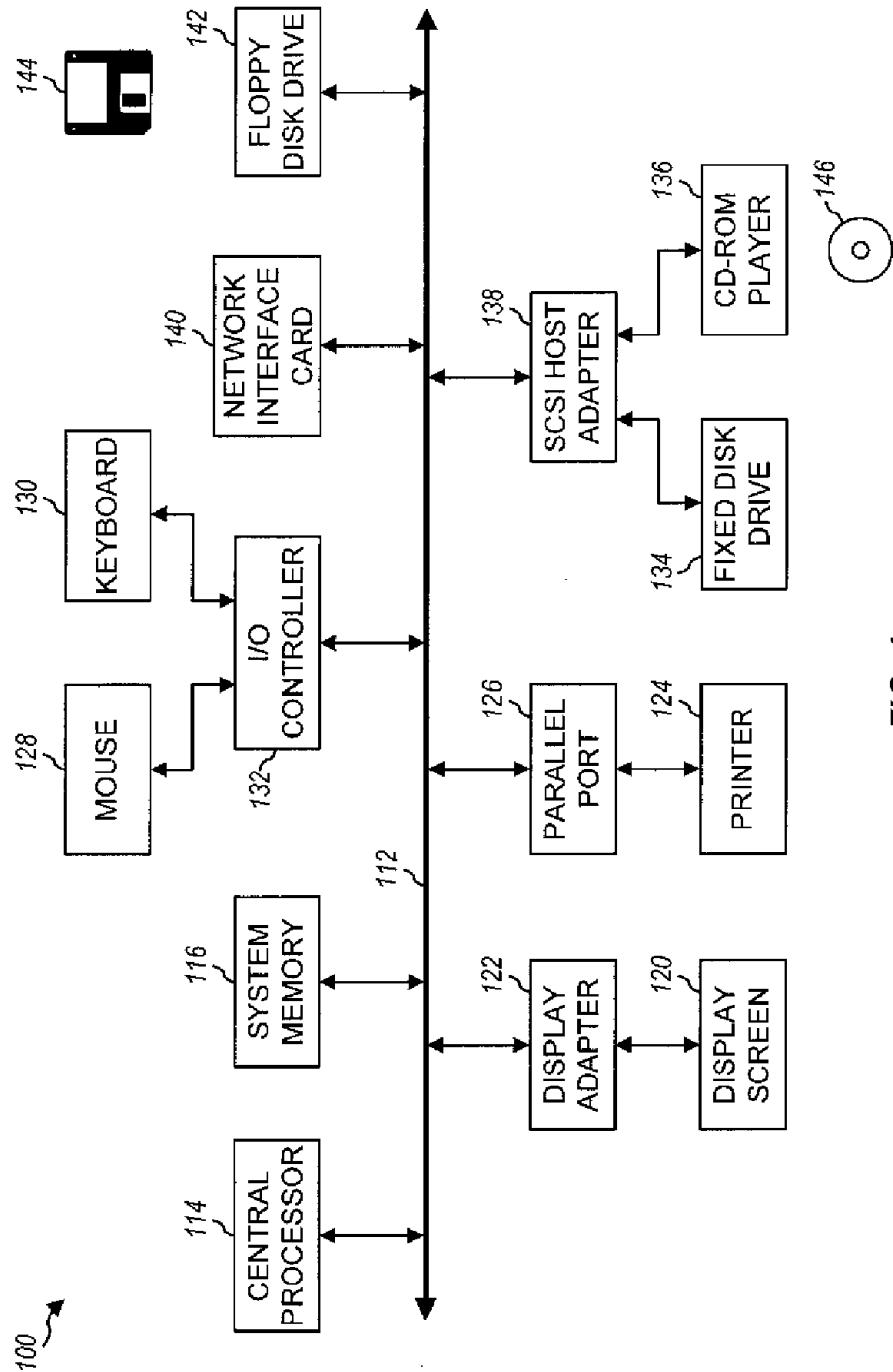


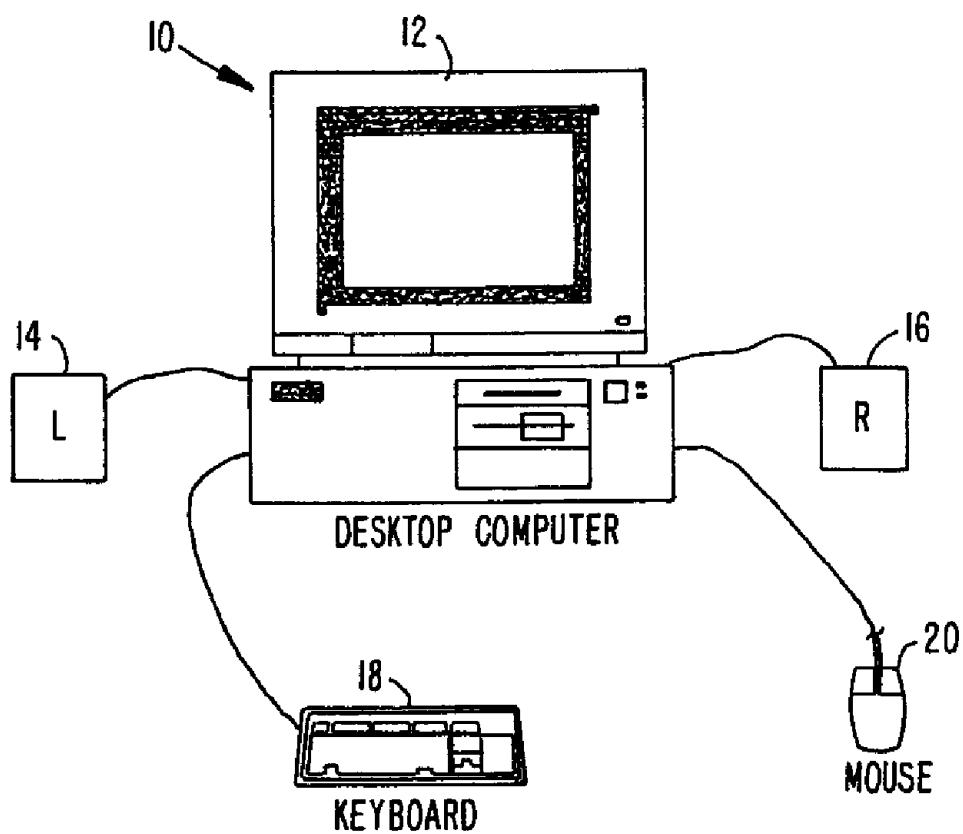
FIG. 1

Fig. 276. Digital differential analyzer (US6377265)

U.S. Patent

May 16, 2000

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6,063,994***FIG. 1A.***

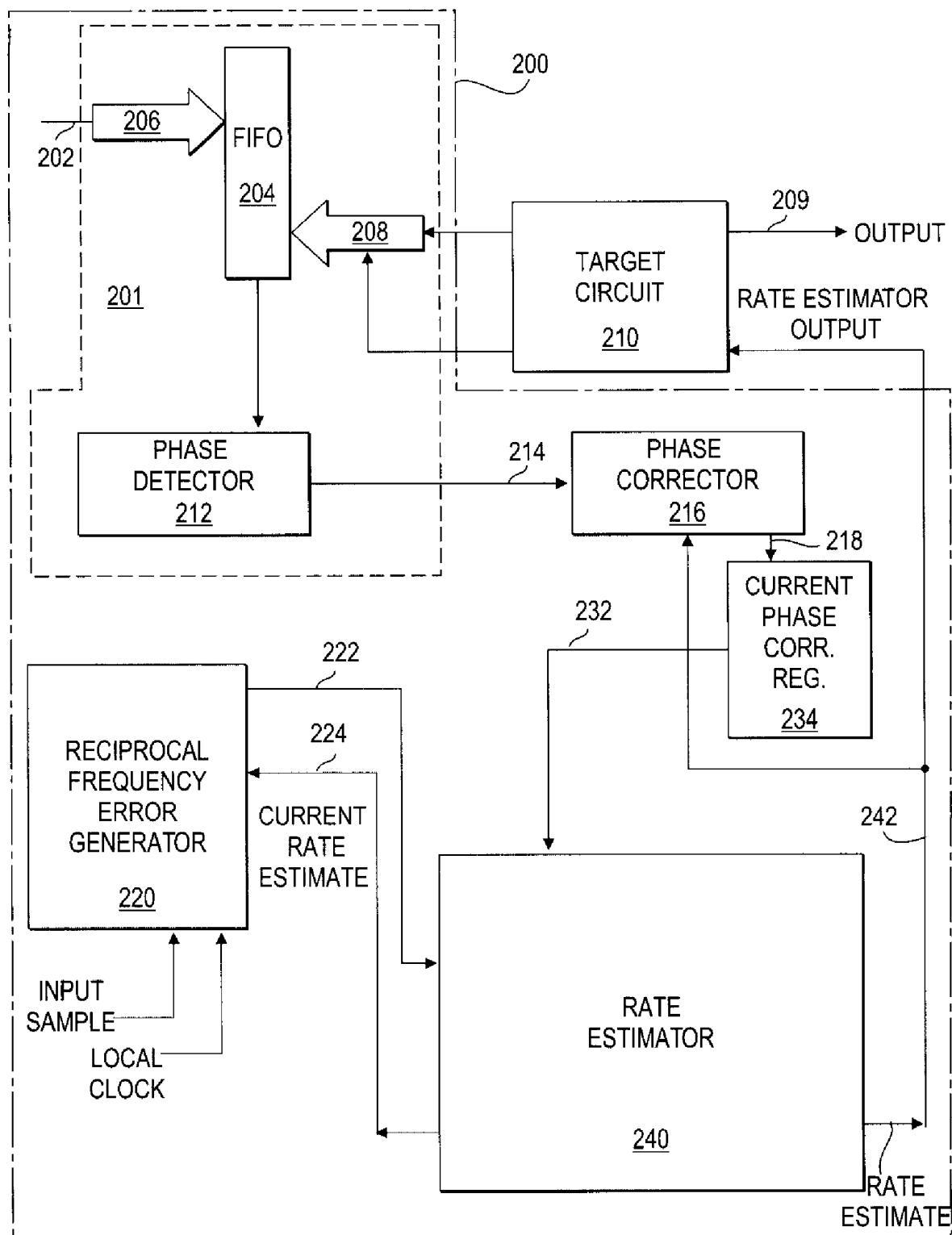


Fig. 278. Asynchronous sample rate estimation using reciprocal frequency error minimization (US6819732)

U.S. Patent

Feb. 9, 1999

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5,870,704

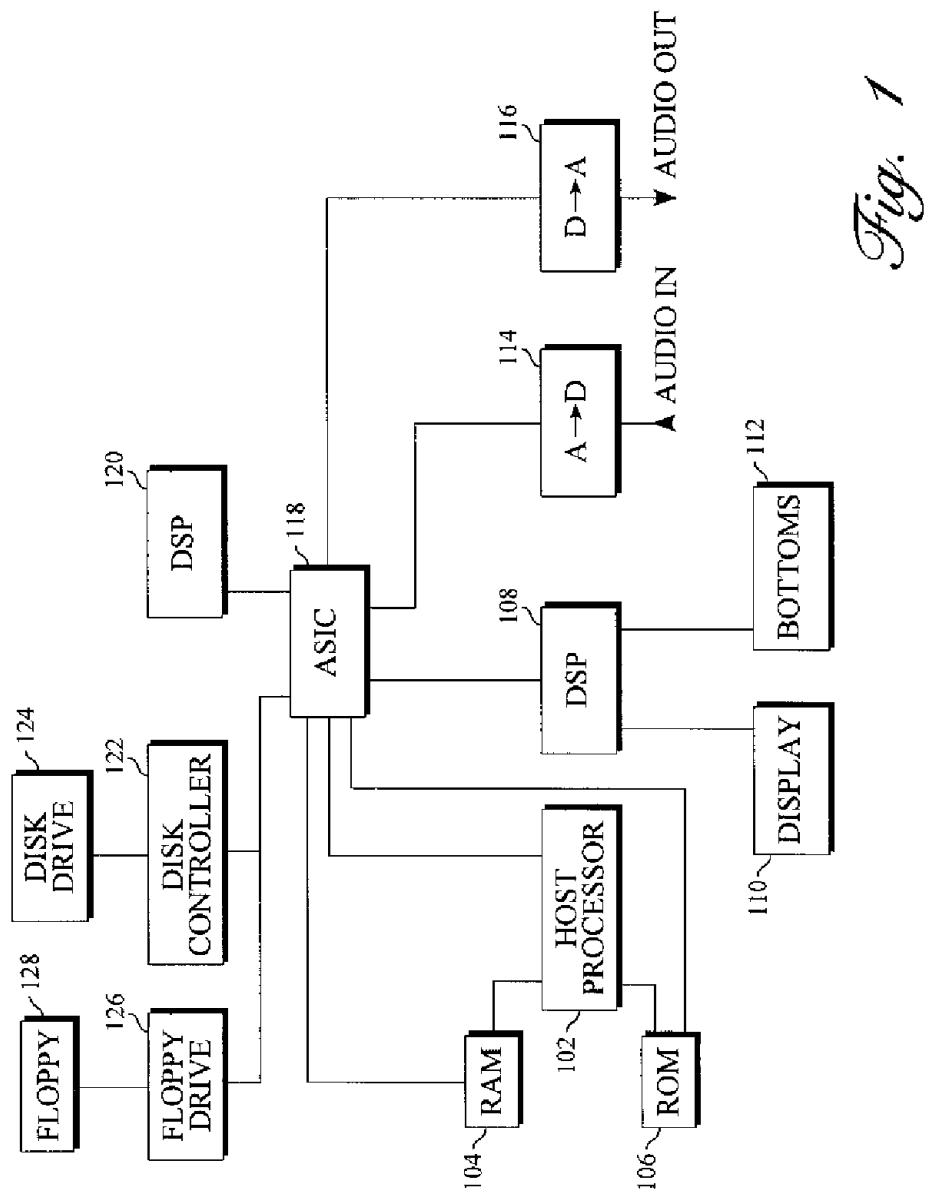
*Fig. 1*

Fig. 279. Frequency domain spectral envelope estimation for monophonic and polyphonic signals (US5870704)

U.S. Patent

Nov. 6, 2001

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US 6,314,136 B1

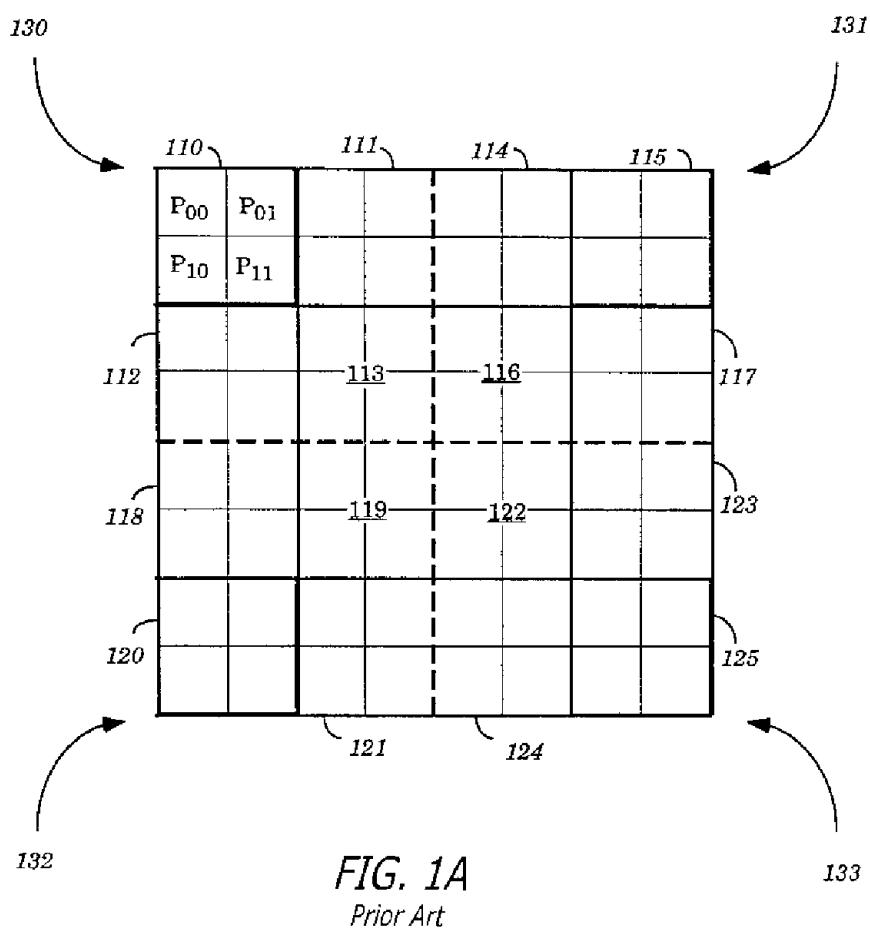


Fig. 280. Method for performing wavelet based image compaction losslessly and low bit precision requirements (US6314136)

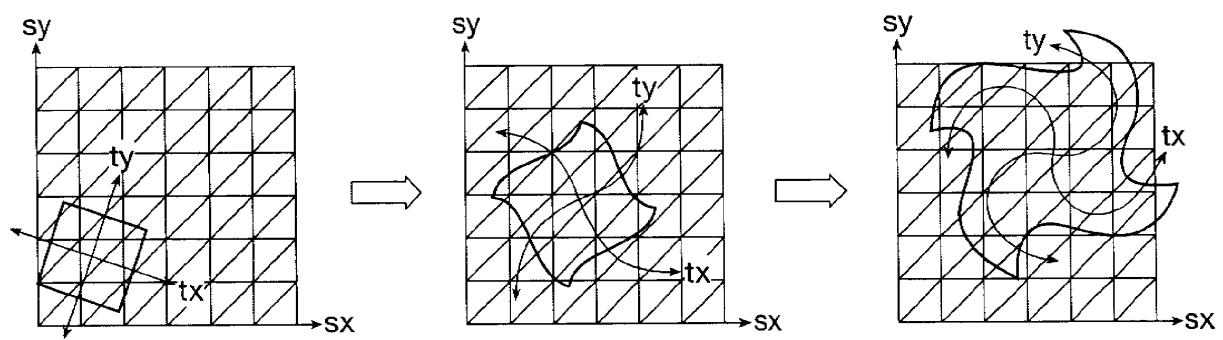


Fig. 281. Audio driven texture and color deformations of computer generated graphics (US6448971)

U.S. Patent

Feb. 26, 2002

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US 6,351,757 B1

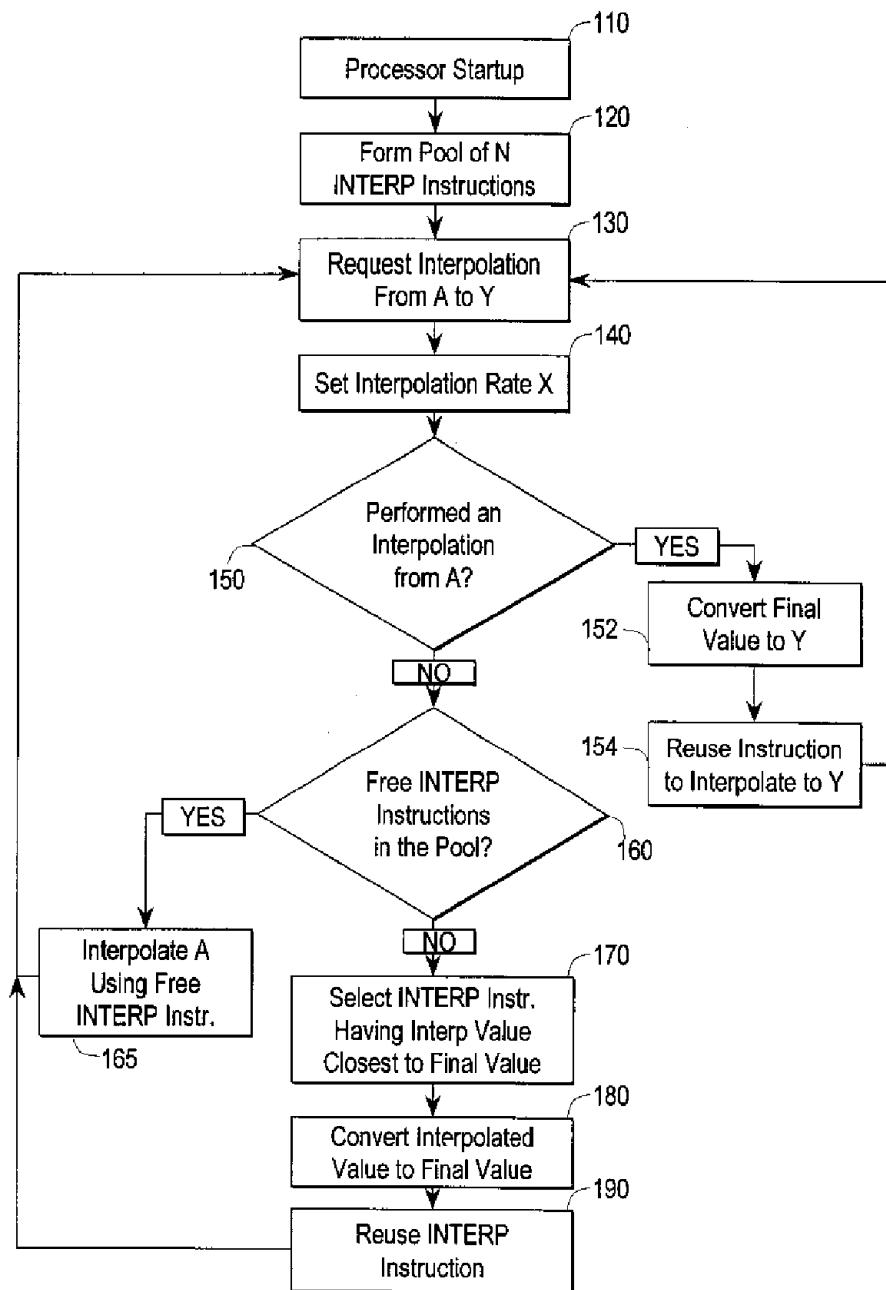


FIG. 1

U.S. Patent

Jun. 30, 1998

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5,772,297

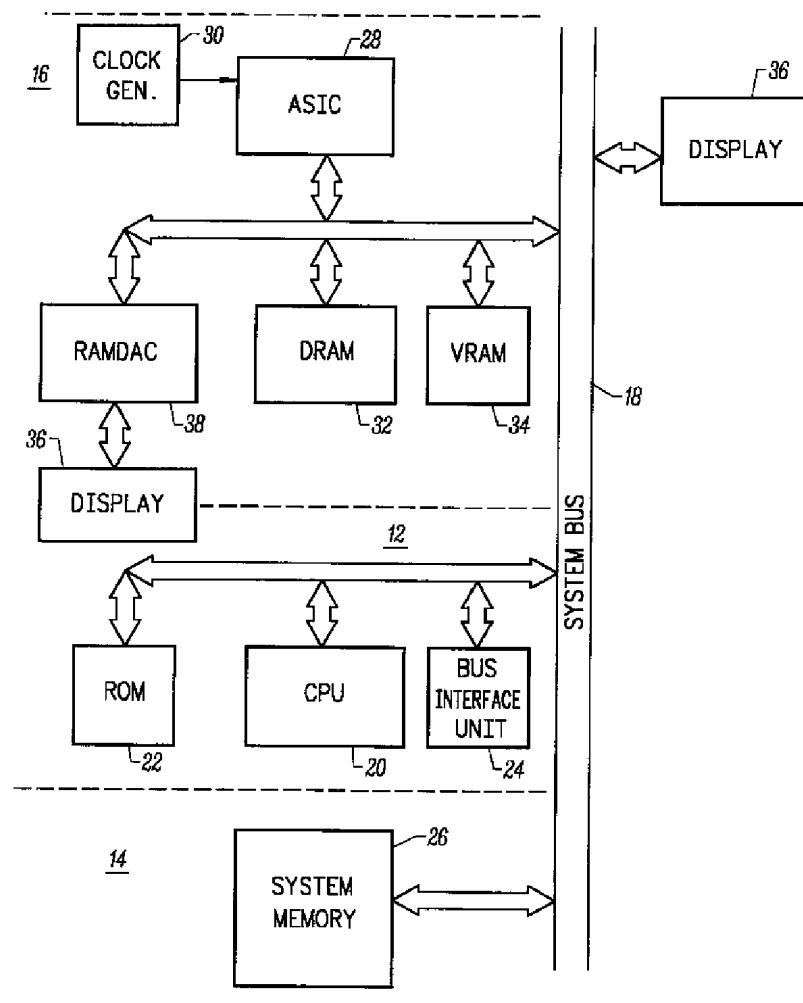


FIG. 1

Fig. 283. 3D graphics library (US5772297)

U.S. Patent

Aug. 14, 2001

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US 6,275,899 B1

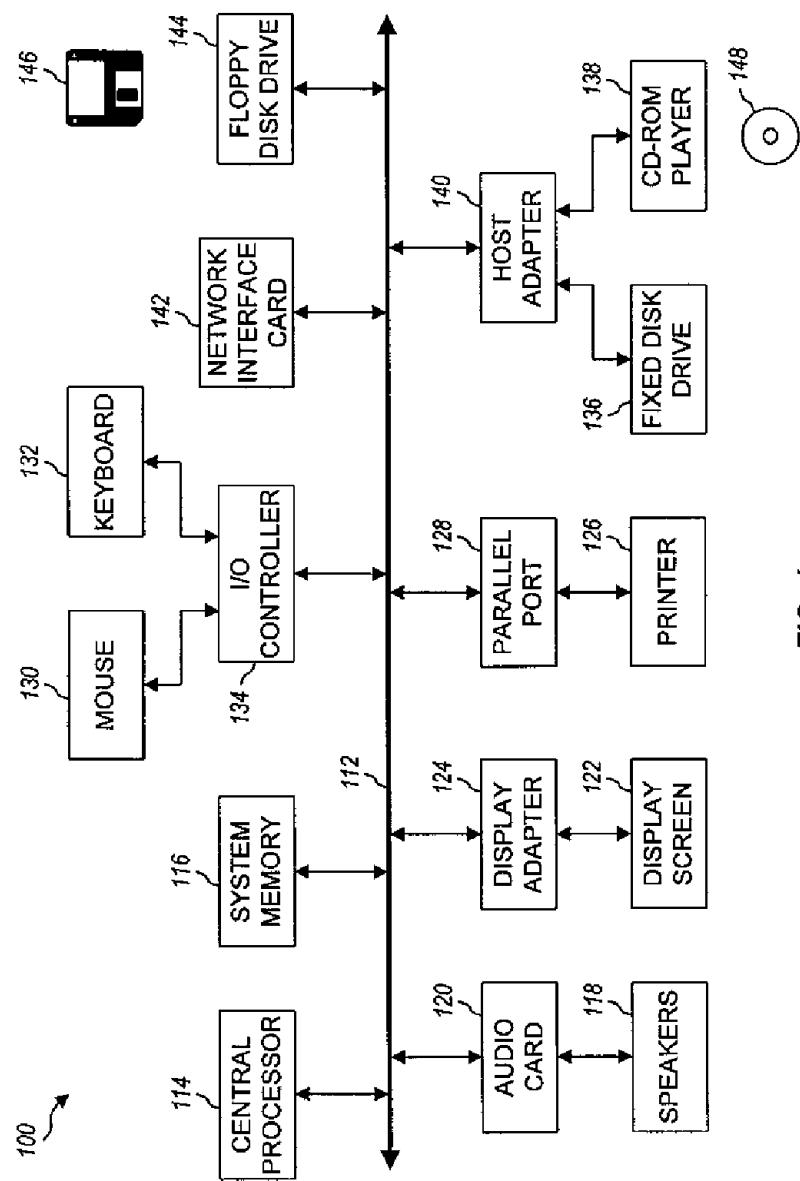
**FIG. 1**

Fig. 284. Method and circuit for implementing digital delay lines using delay caches (US6275899)

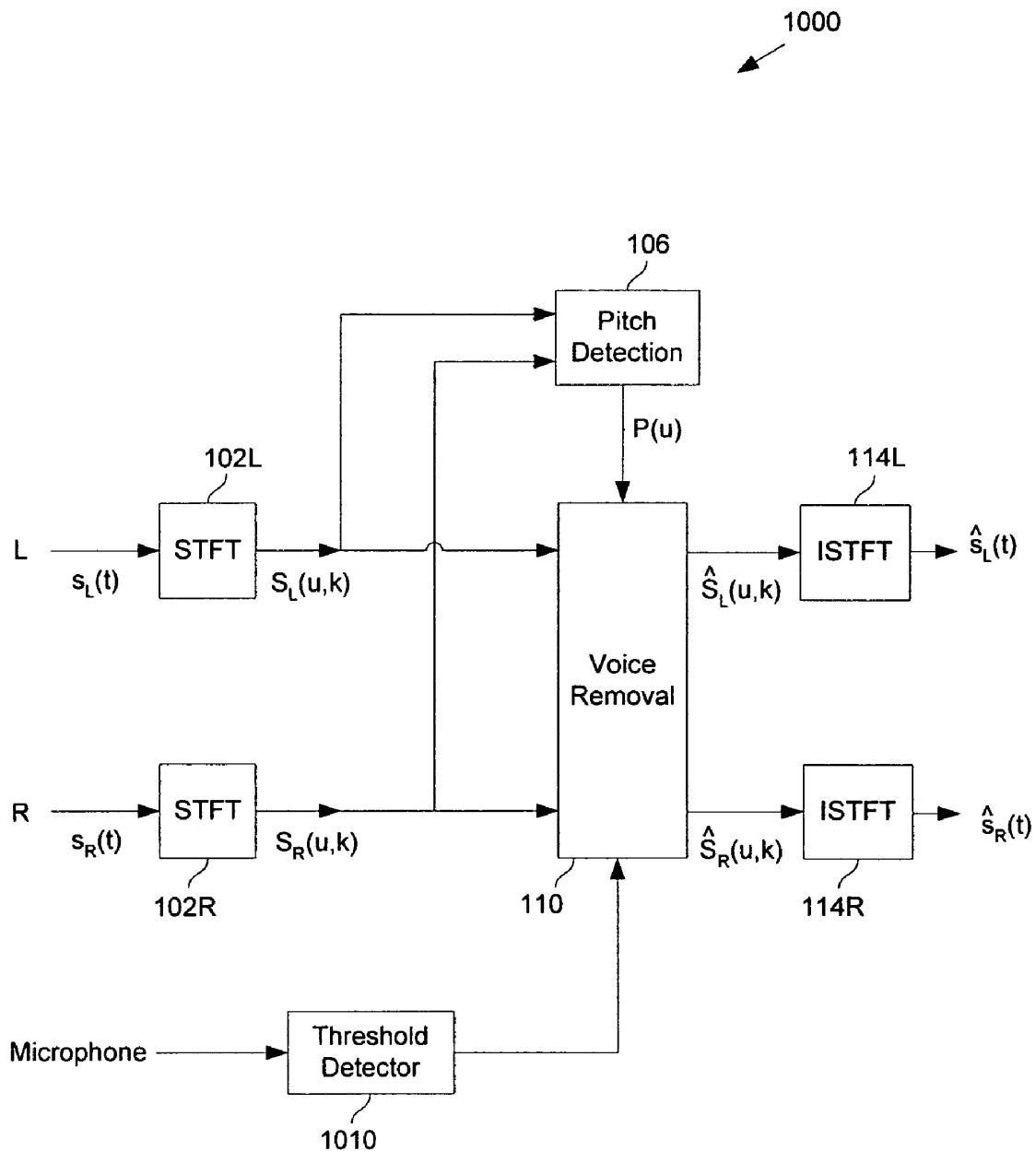


Fig. 285. Pitch based frequency domain voice removal (US8219390)

U.S. Patent

Aug. 10, 1999

Sheet 1 of 8

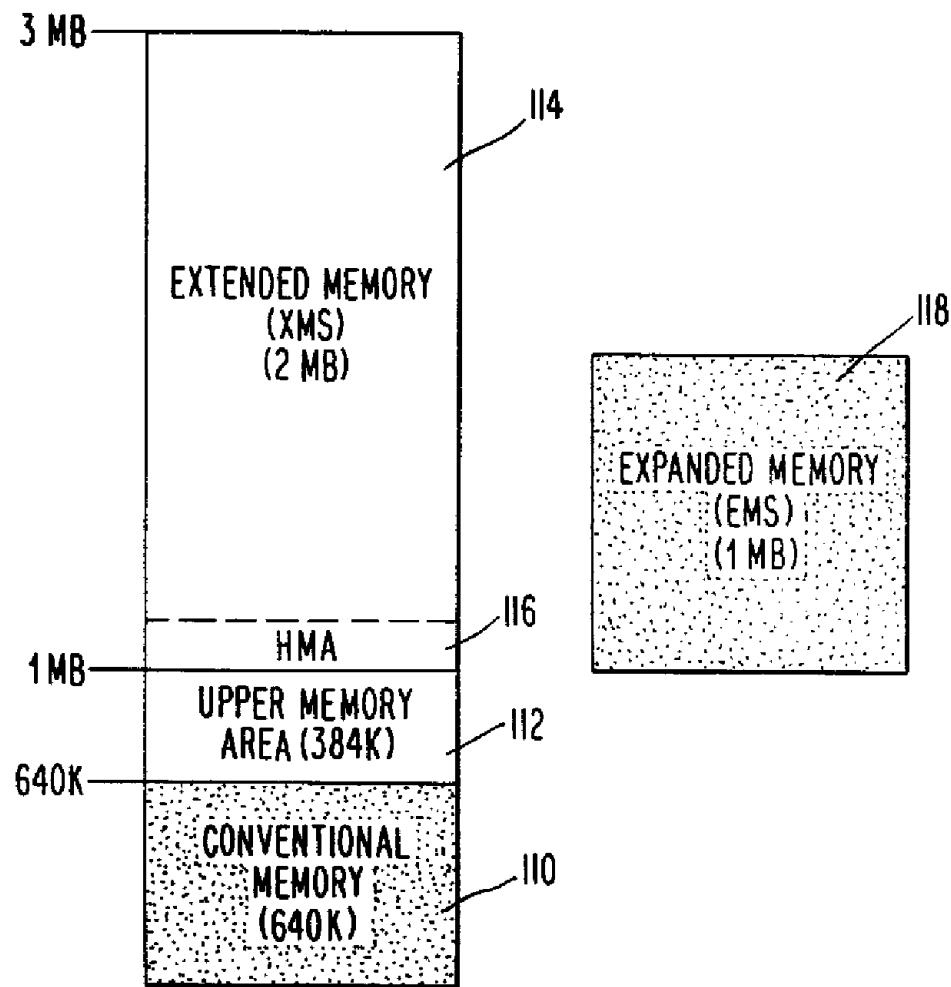
5,937,185

Fig. 1
(PRIOR ART)

U.S. Patent

Nov. 16, 1999

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5,986,199

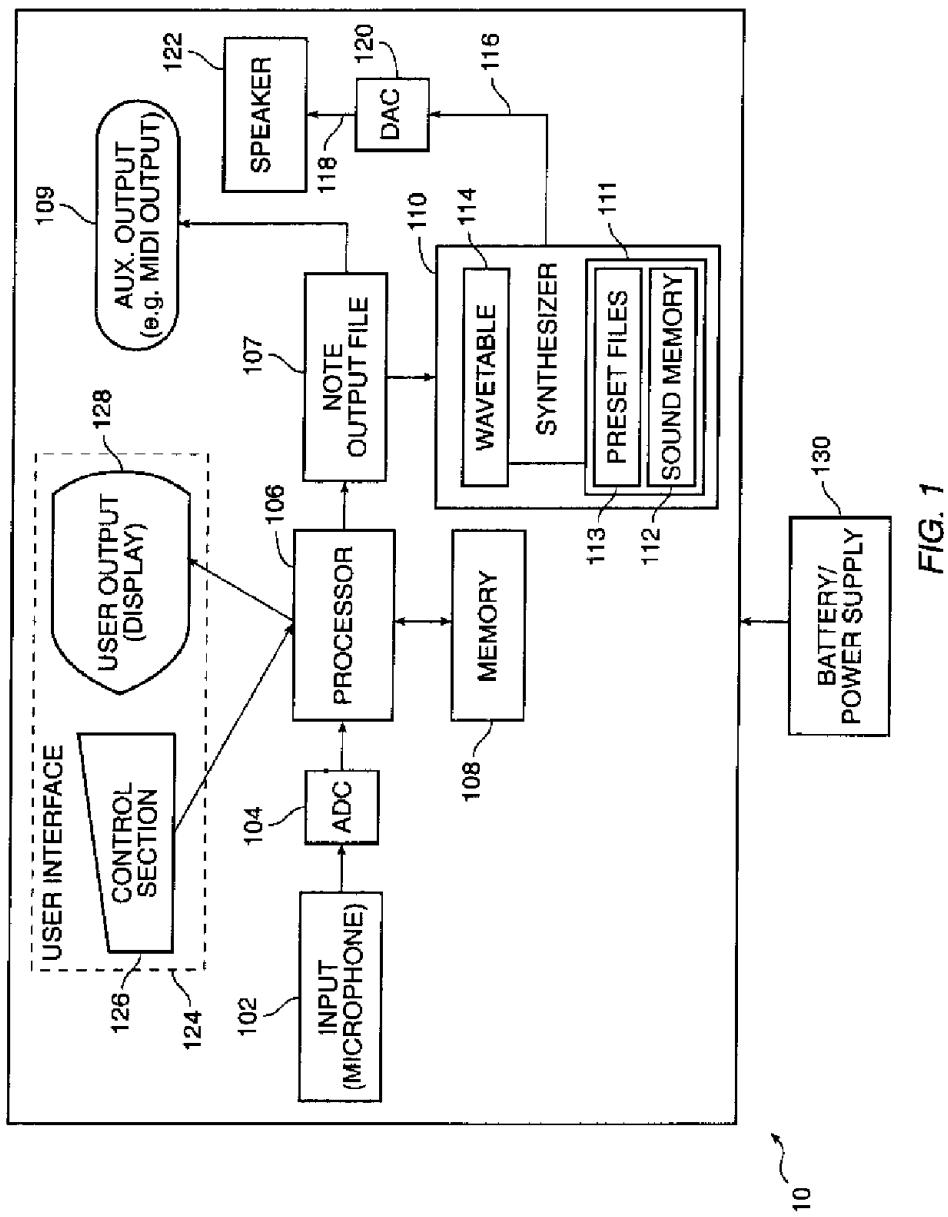


FIG. 1

Fig. 287. Device for acoustic entry of musical data (US5986199)

U.S. Patent

Feb. 2, 1999

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5,867,575

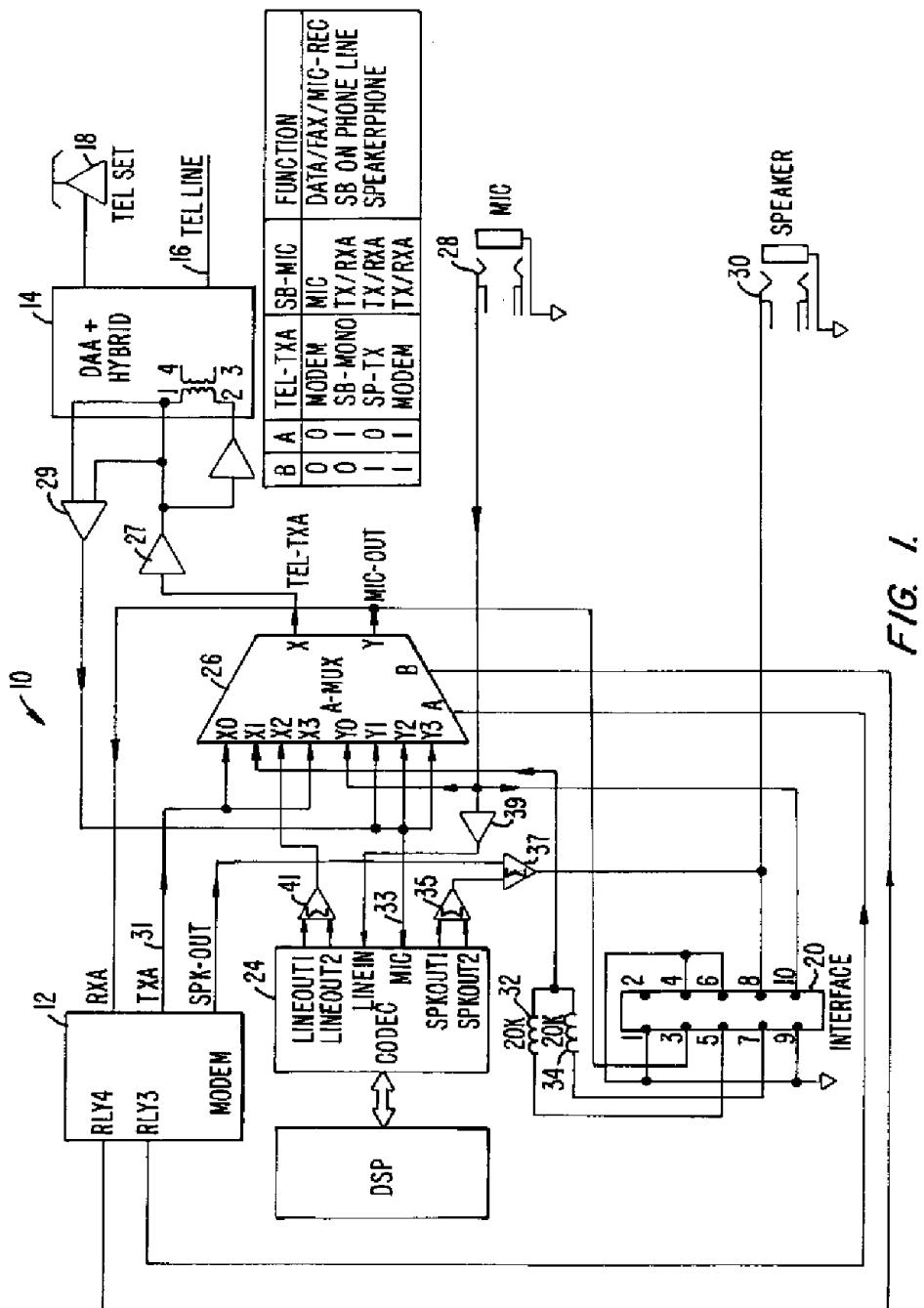


FIG. 1.

Fig. 288. Optimized interface between audio/modem board and sound board (US5867575)

U.S. Patent

Mar. 29, 2005

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US 6,873,062 B1

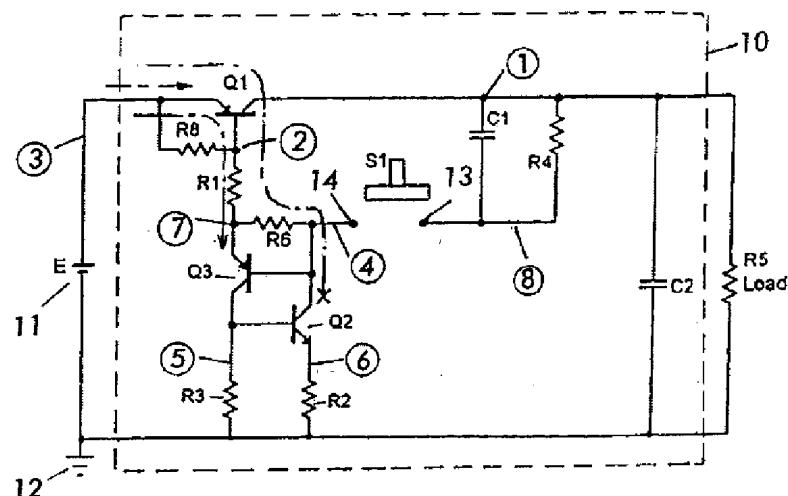


FIG. 1 "OFF STATE" NO CIRCUIT PATH

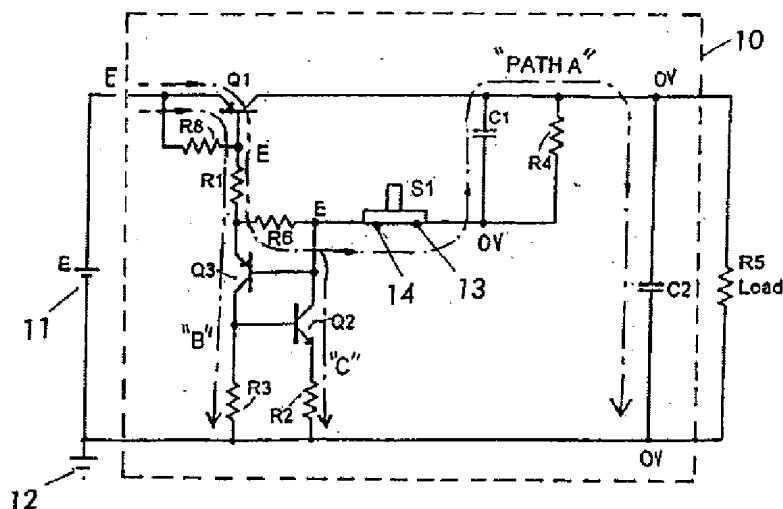


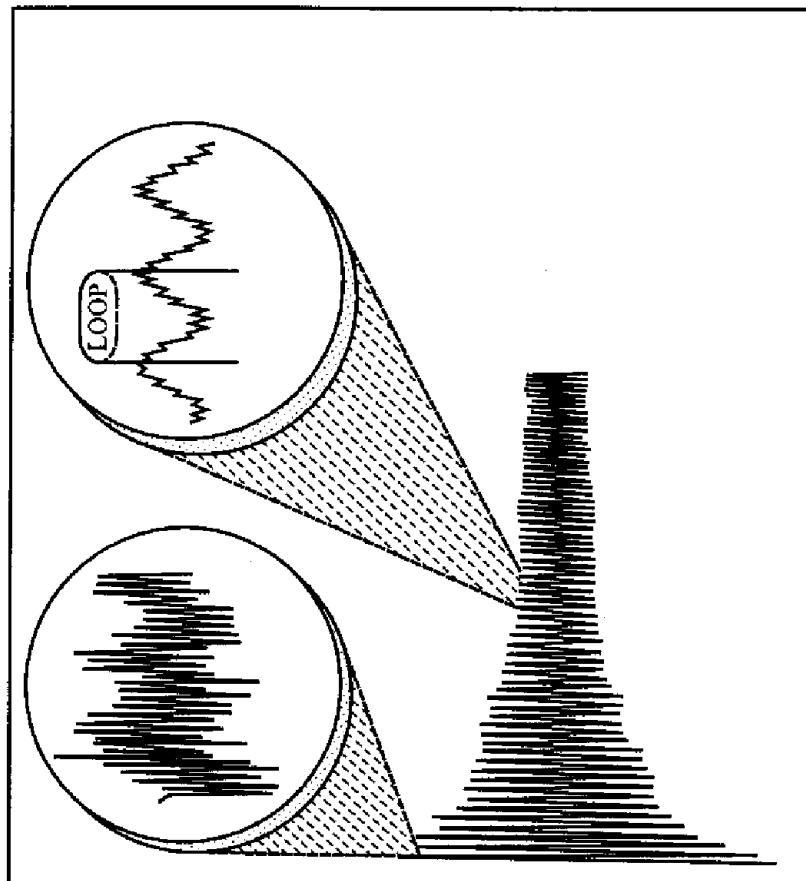
FIG. 2 PATH A, B & C

Fig. 289. Switch circuit (US6873062)

U.S. Patent

Mar. 2, 1999

Sheet 1 of 15

5,877,446*Fig. 1*

U.S. Patent Oct. 9, 2007 Sheet 1 of 12 US 7,280,878 B1

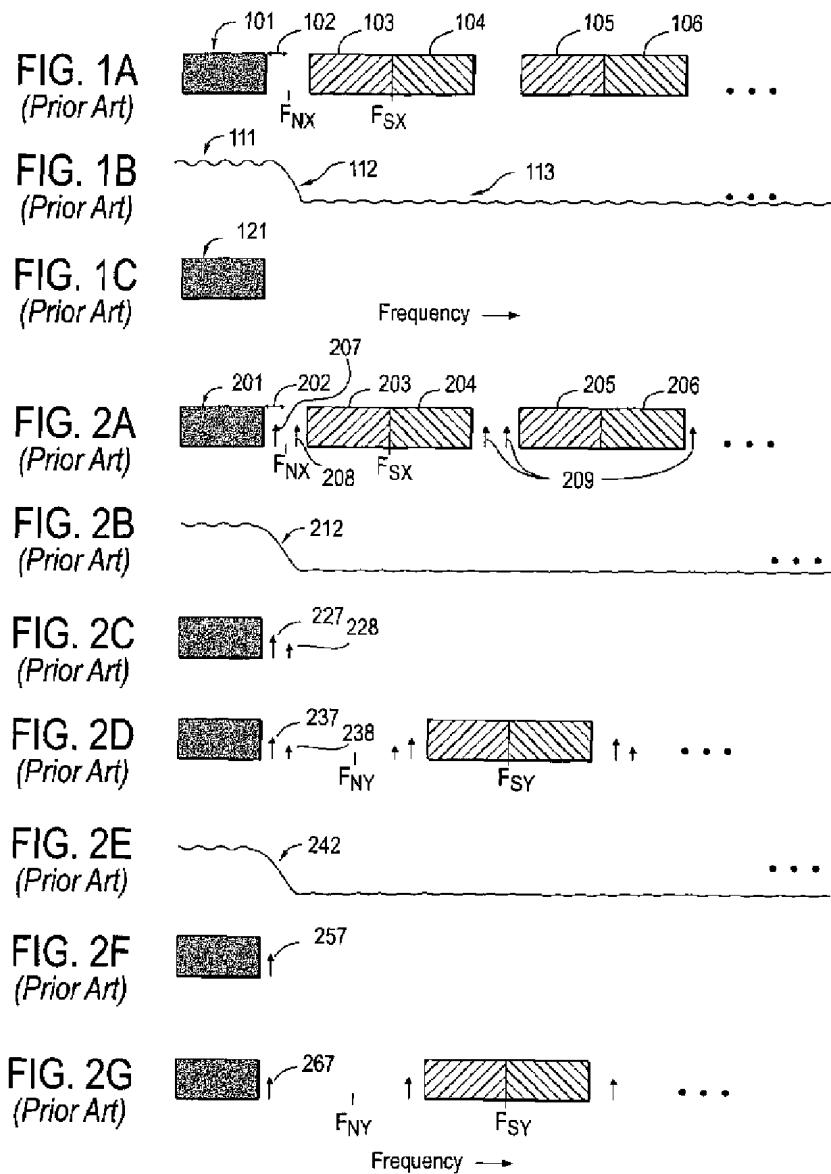


Fig. 291. Sample rate converter having distributed filtering (US7280878)

U.S. Patent

Nov. 13, 2001

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US 6,317,119 B1

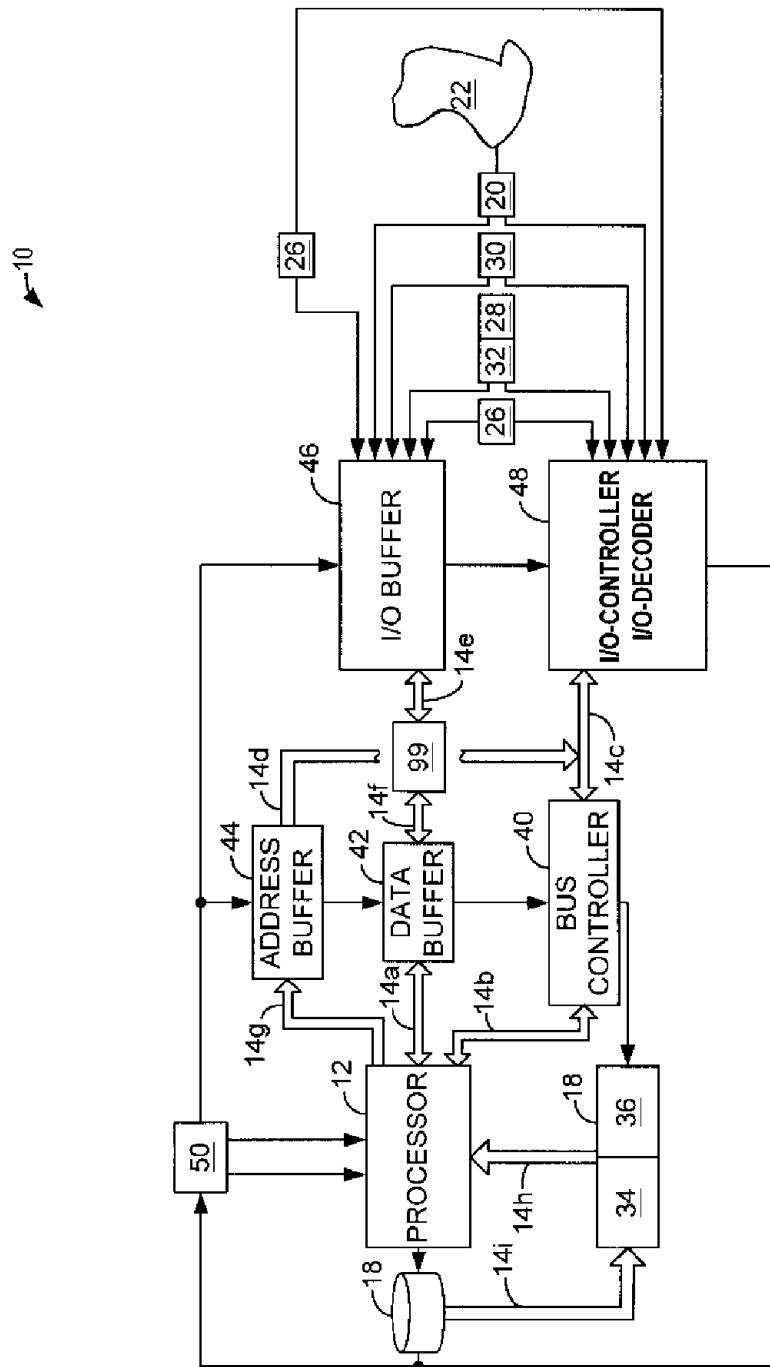


FIG. 1.

U.S. Patent

Oct. 30, 2001

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US 6,311,158 B1

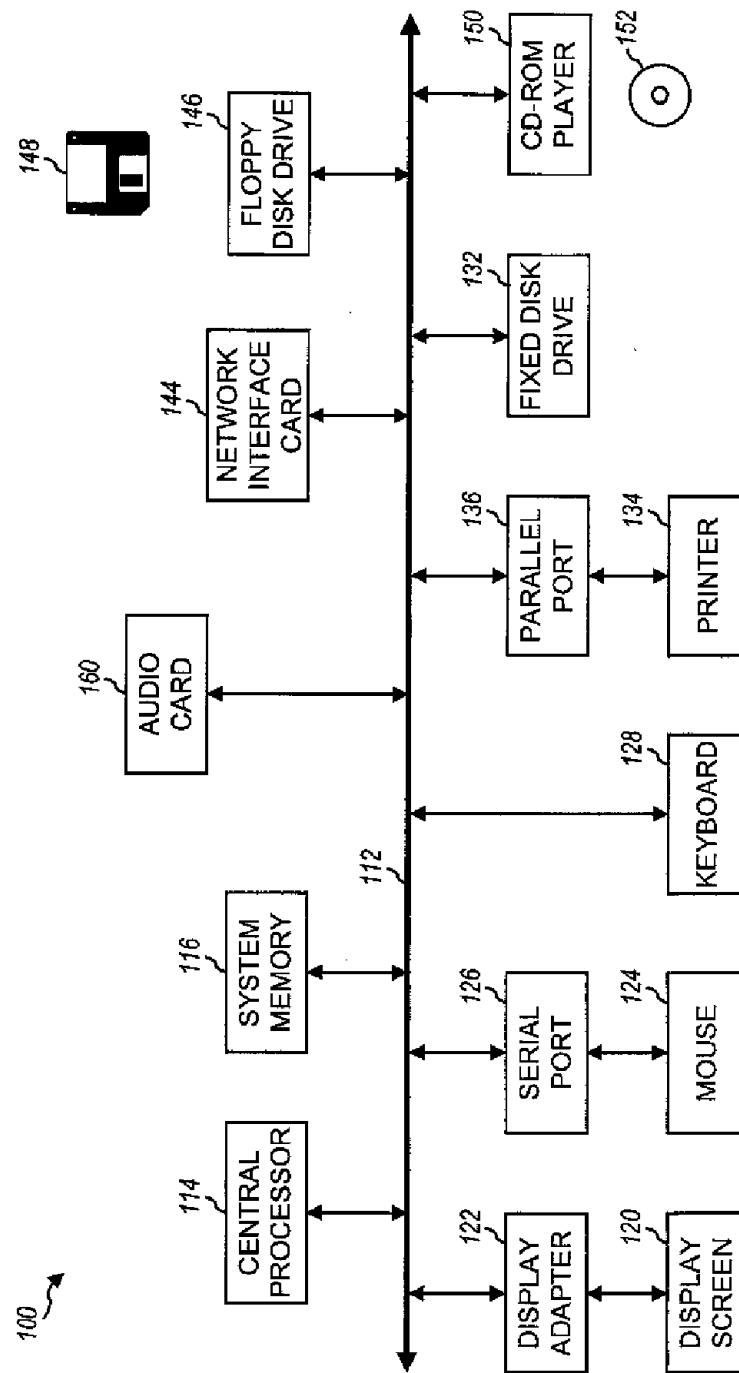


FIG. 1

Fig. 293. Synthesis of time domain signals using non overlapping transforms (US6311158)

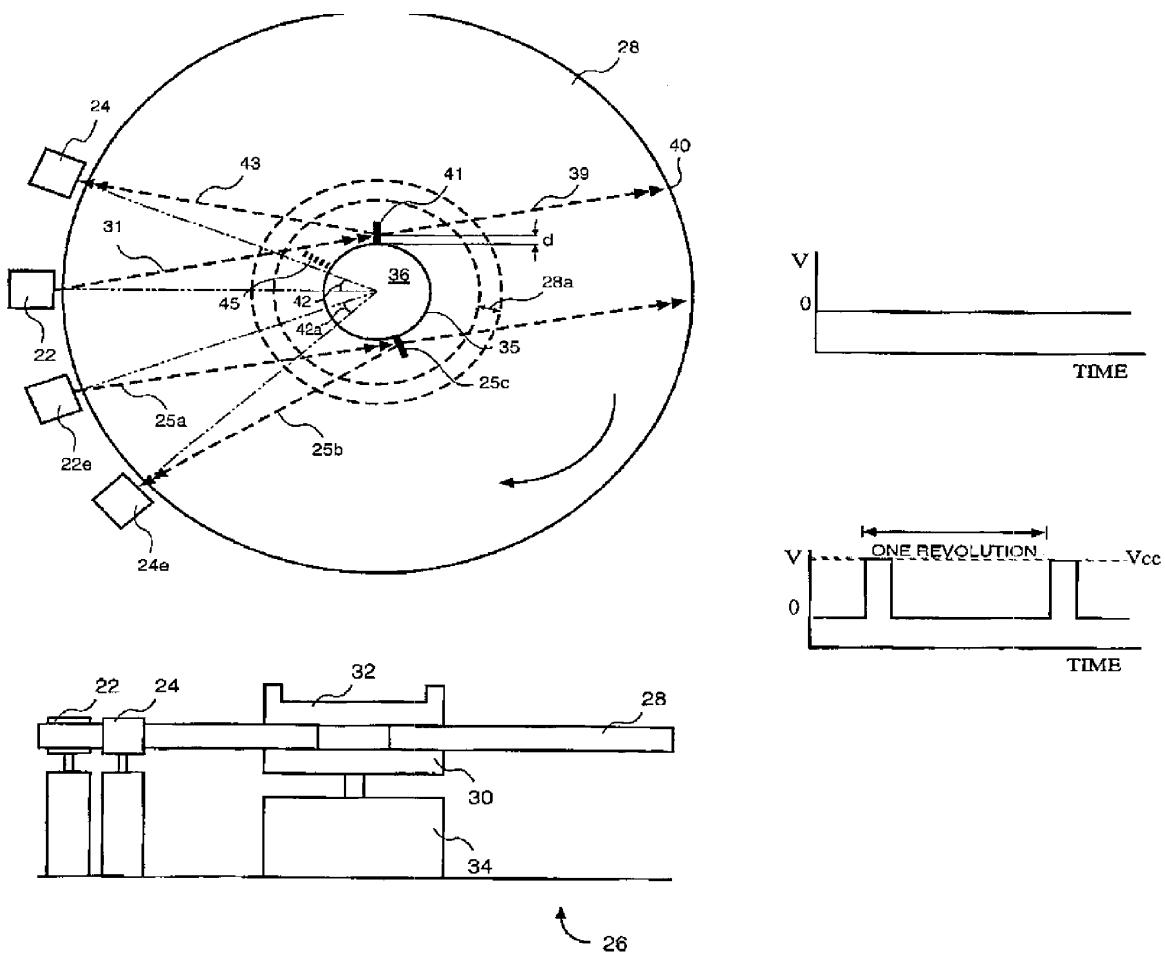


Fig. 294. Method and system for detecting cracks in optical discs (US6914864)

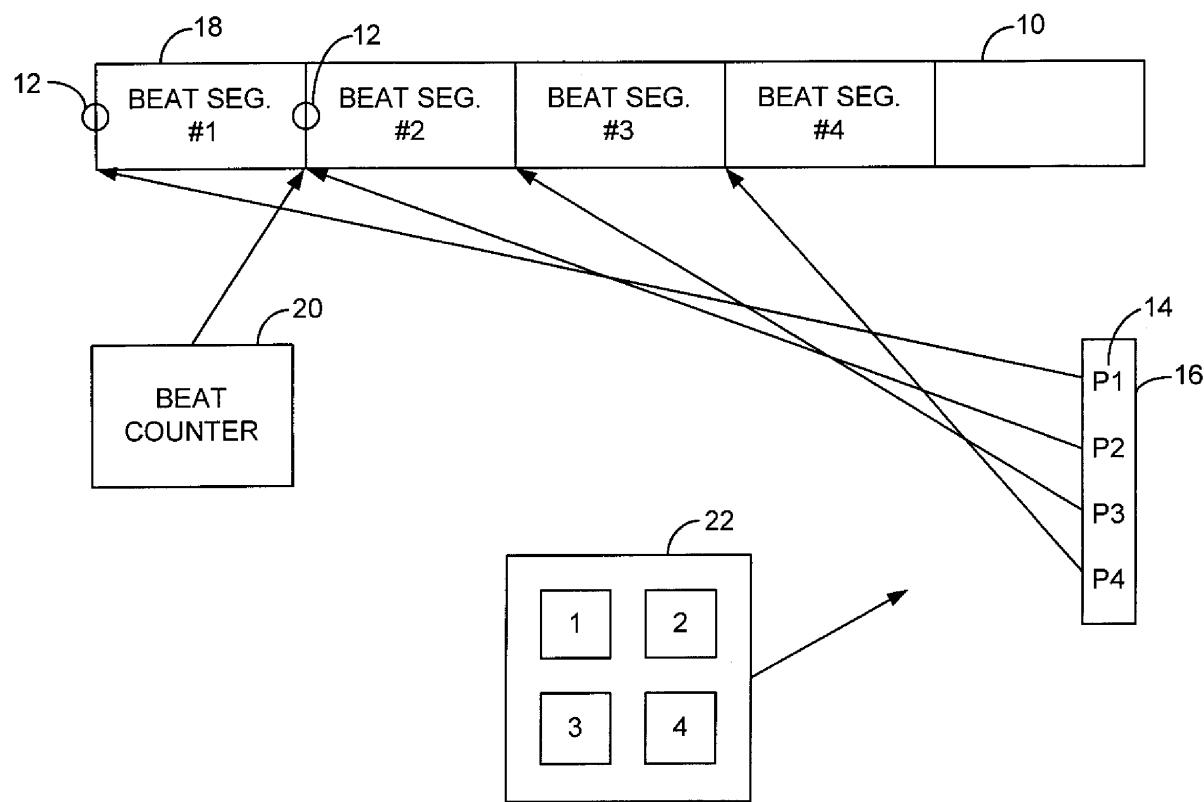


Fig. 295. Method and apparatus for real time beat modification of audio and music signals (US6307141)

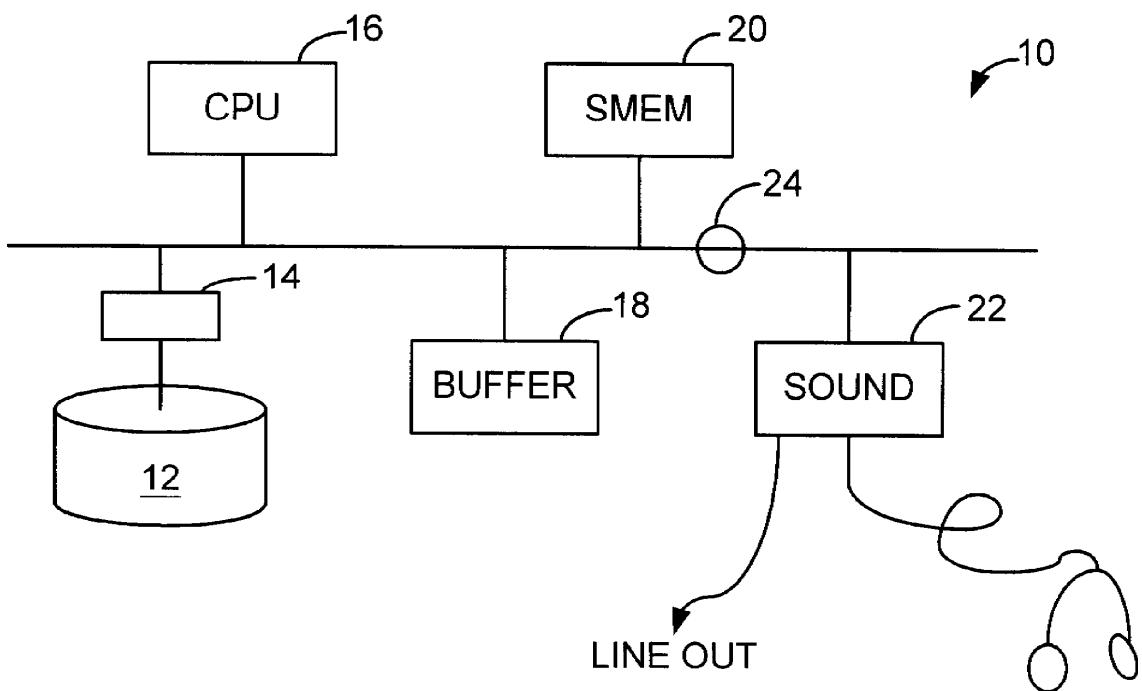


Fig. 296. System for managing power in a portable music player (US6590730)

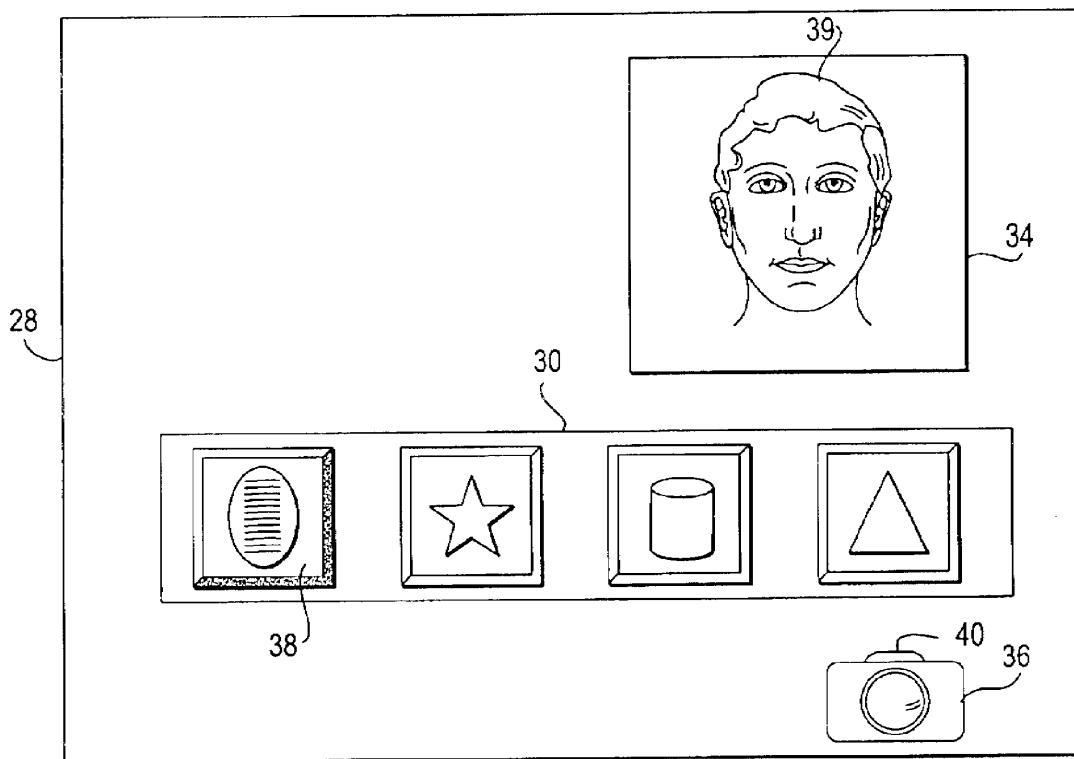


Fig. 297. Automated acquisition of video textures acquired from a digital camera for mapping to audio driven deformable objects (US6856329)

U.S. Patent

Jul. 18, 2000

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6,092,126

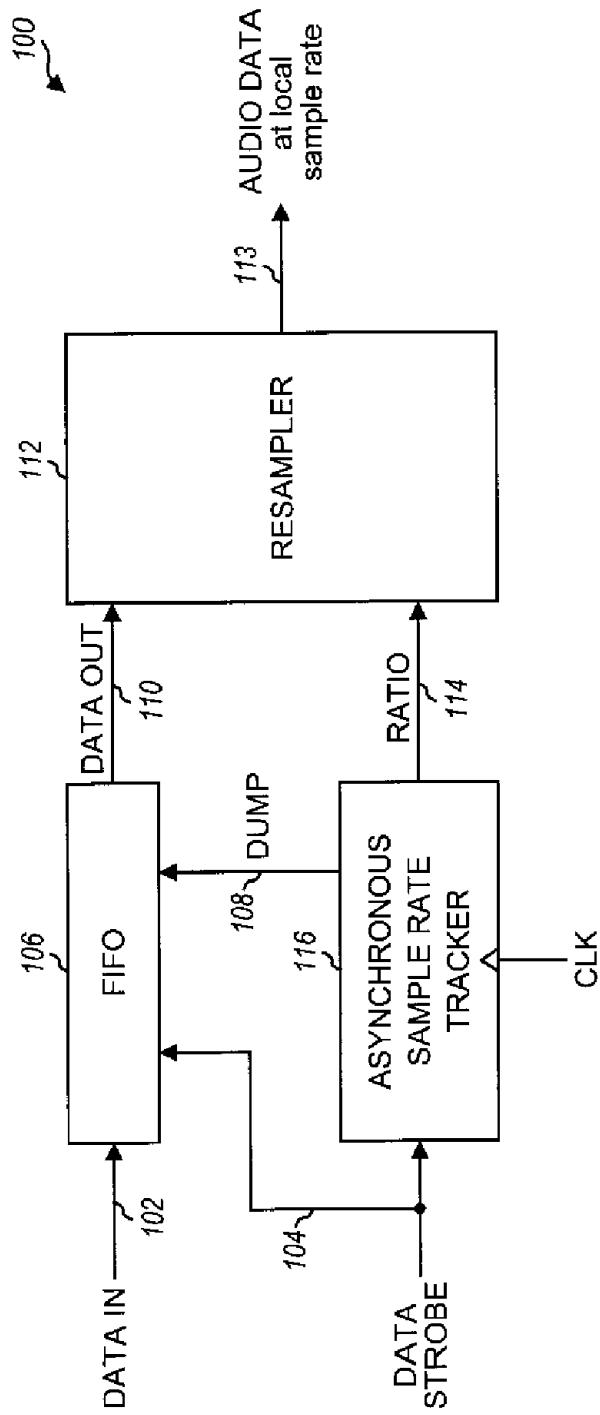


FIG. 1

Fig. 298. Asynchronous sample rate tracker with multiple tracking modes (US6092126)

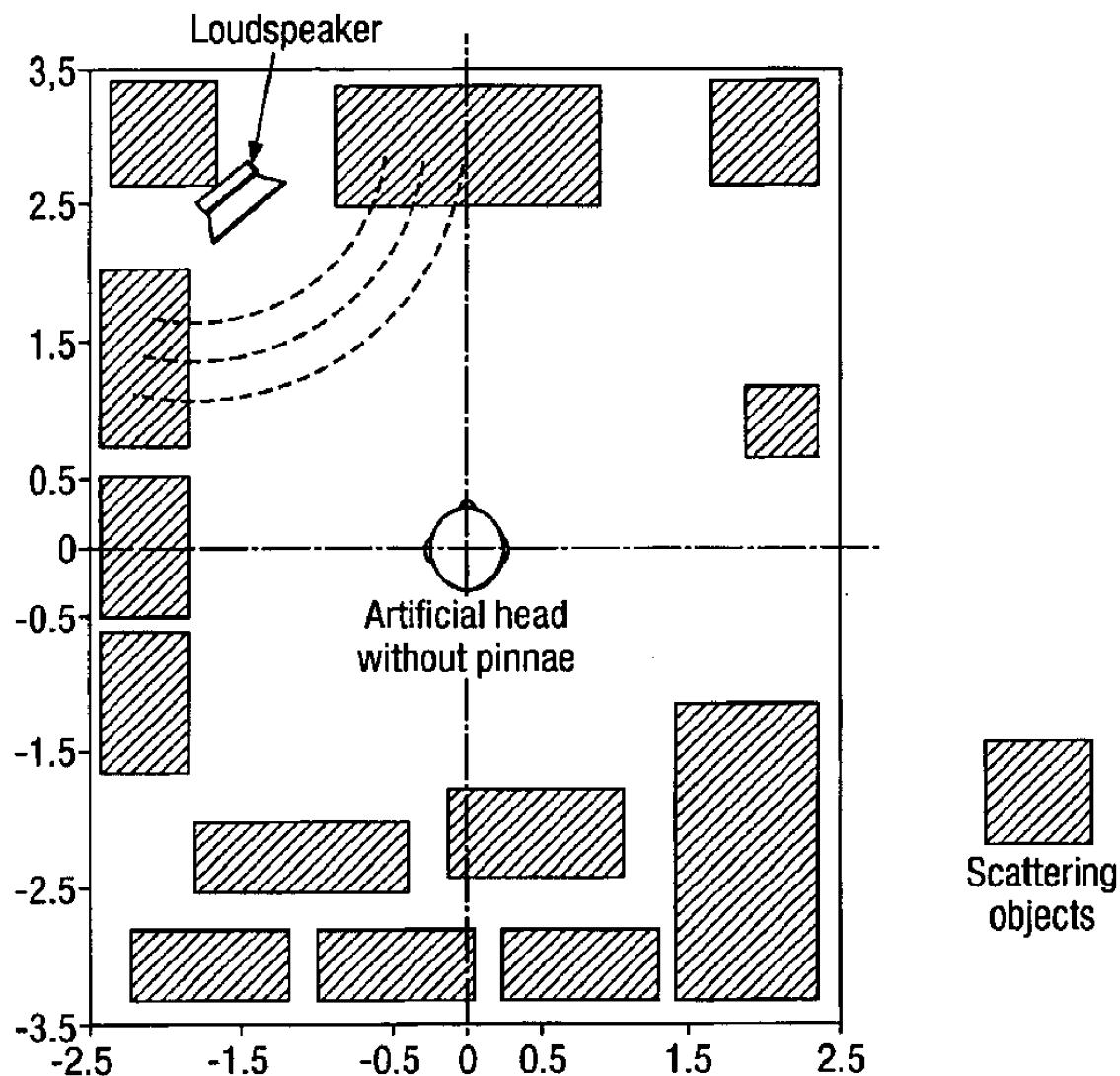


Fig. 299. Method of synthesizing an approximate impulse response function (US6741711)

U.S. Patent

Feb. 27, 2001

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US 6,195,715 B1

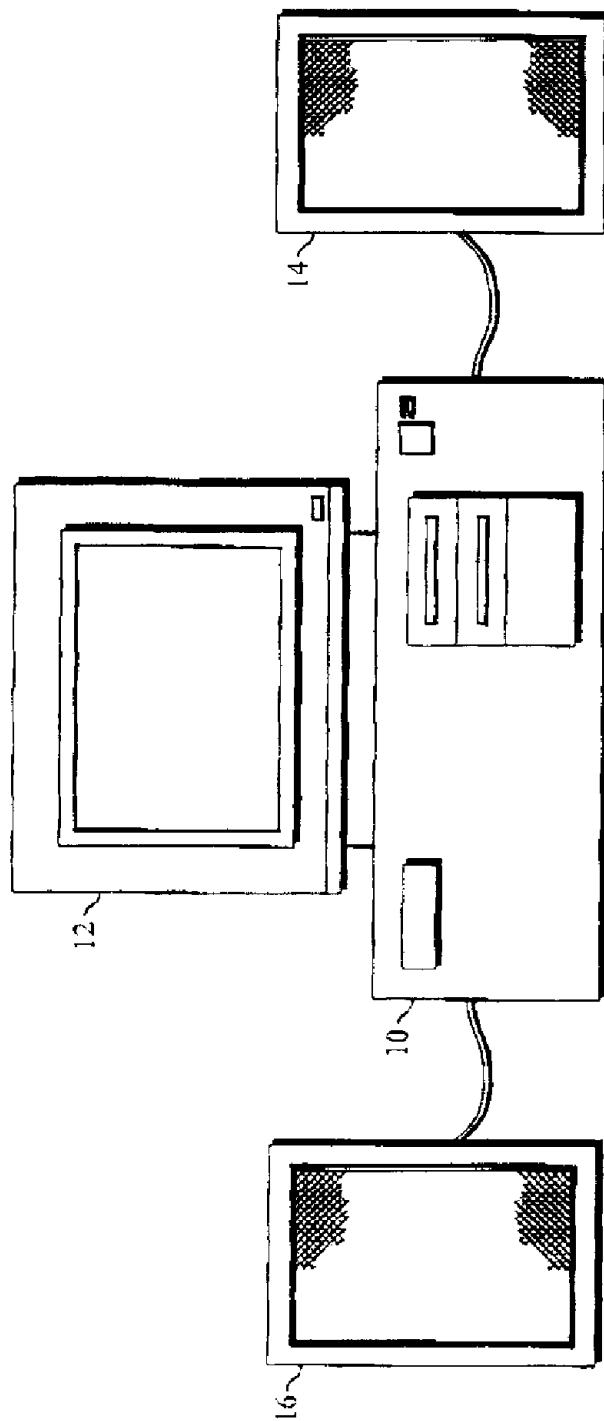


Fig. 1

Fig. 300. Interrupt control for multiple programs communicating with a common interrupt by associating programs to GP registers defining interrupt register polling GP registers and invoking callback routine associated with defined interrupt register (US6195715)

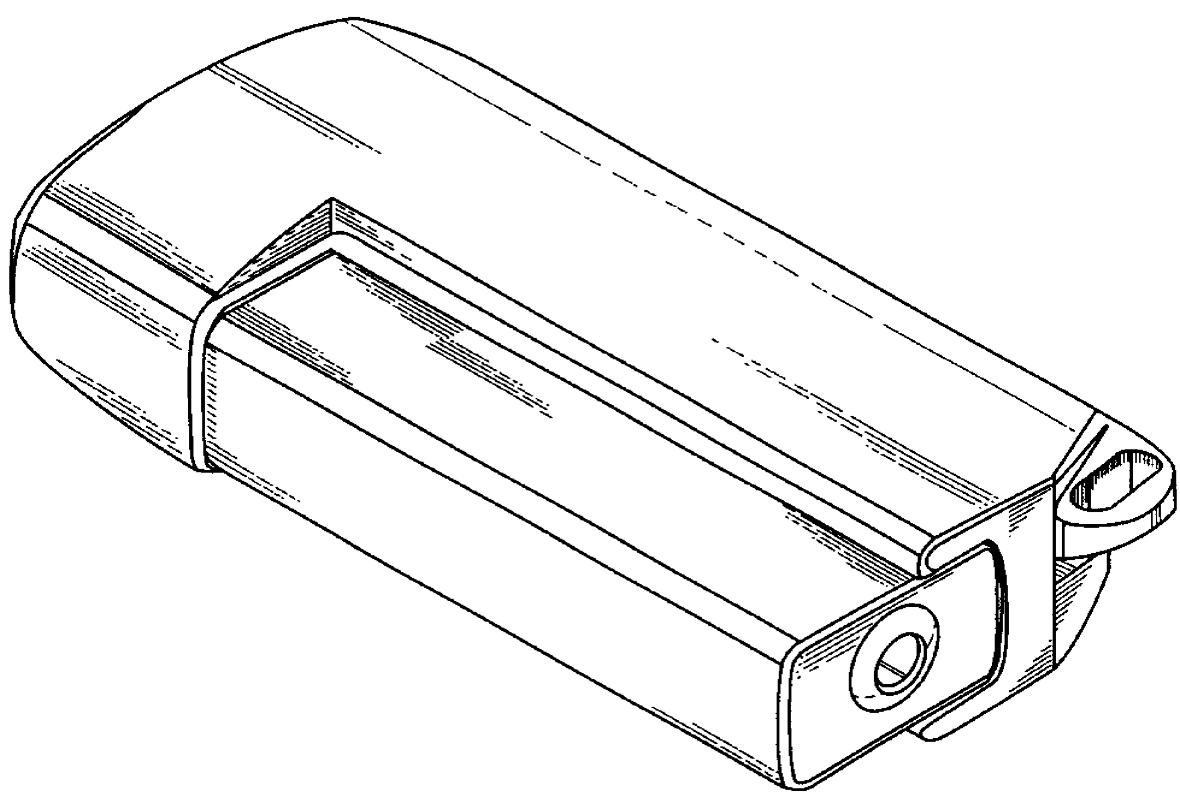


Fig. 301. Media player (USD501485)

U.S. Patent

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US 6,999,827 B1

PRIOR ART

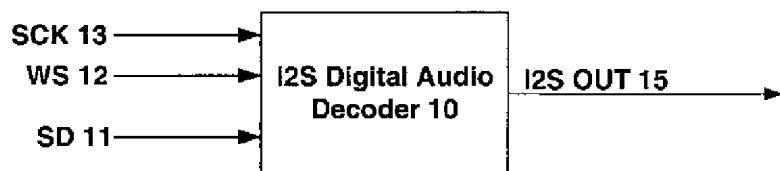


FIG. 1A

Fig. 302. Auto detection of audio input formats (US6999827)

U.S. Patent

Mar. 15, 2005

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US 6,868,377 B1

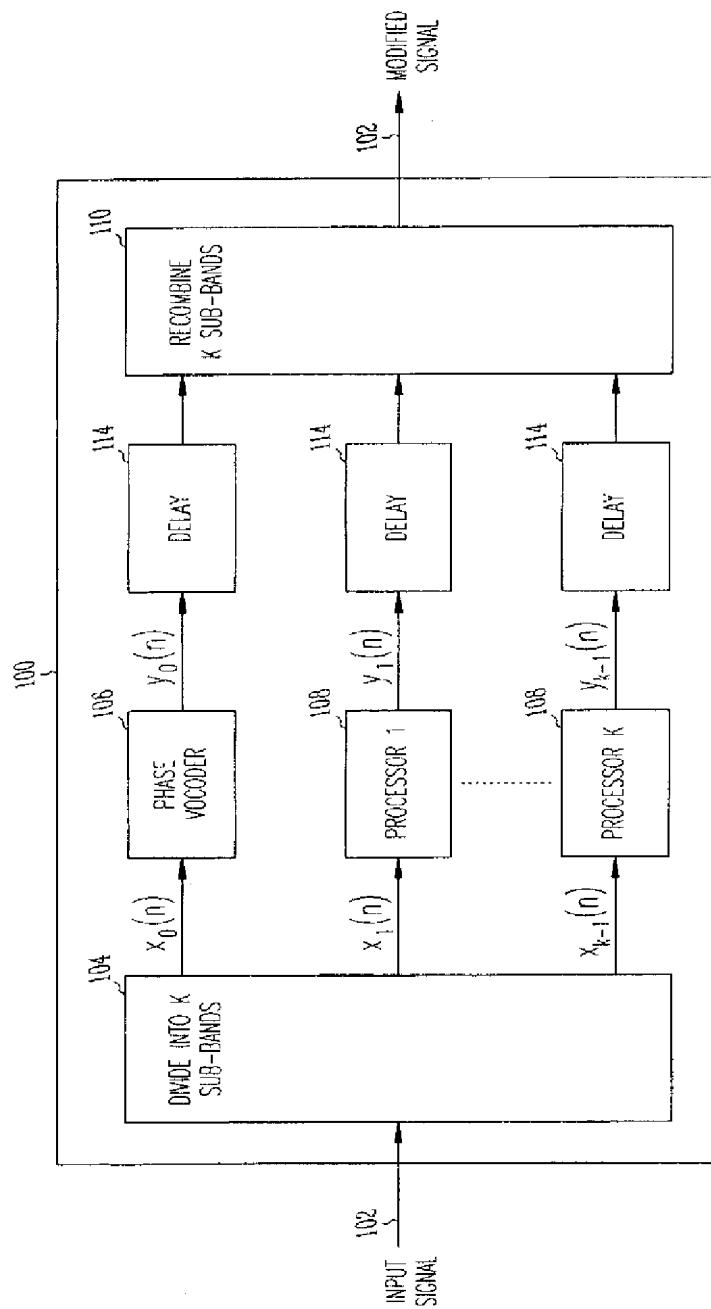
*Fig. 1*

Fig. 303. Multiband phase vocoder for the modification of audio or speech signals (US6868377)

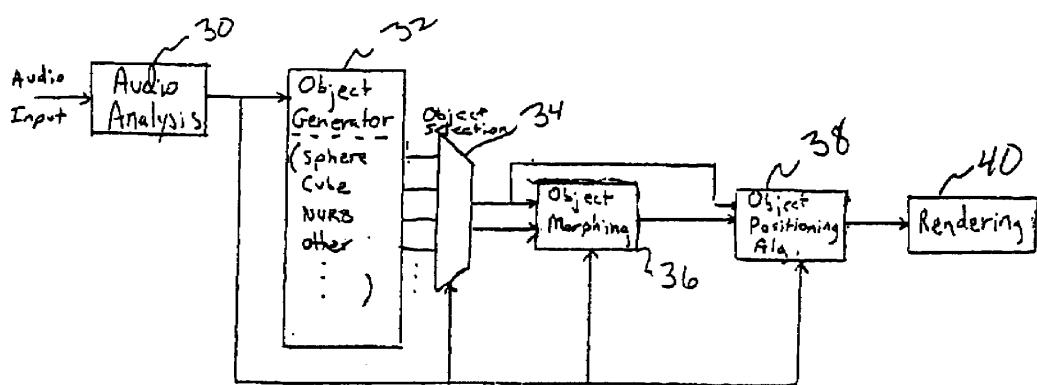


Fig. 304. Audio driven self generating objects (US7038683)

U.S. Patent

Jul. 20, 2004

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US 6,766,300 B1

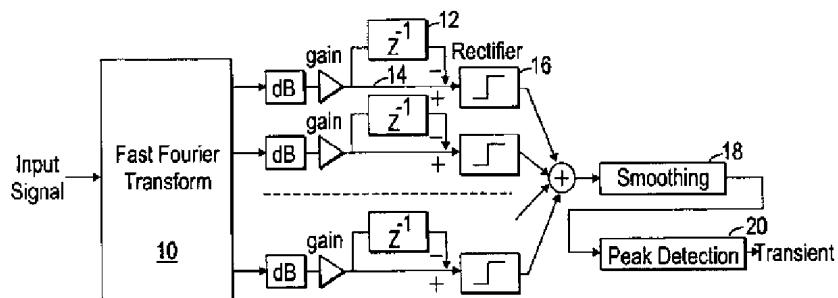


FIG. 1

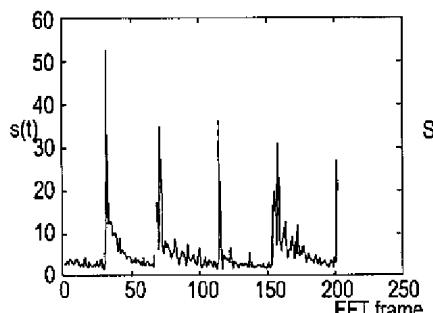


FIG. 2A

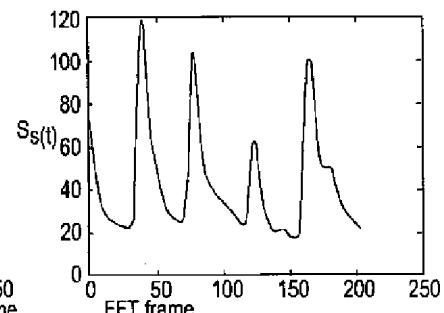


FIG. 2B

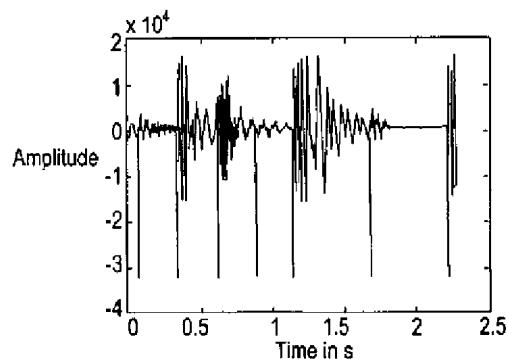


FIG. 3

Fig. 305. Method and apparatus for transient detection and non distortion time scaling (US6766300)

U.S. Patent

Feb. 29, 2000

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6,032,235

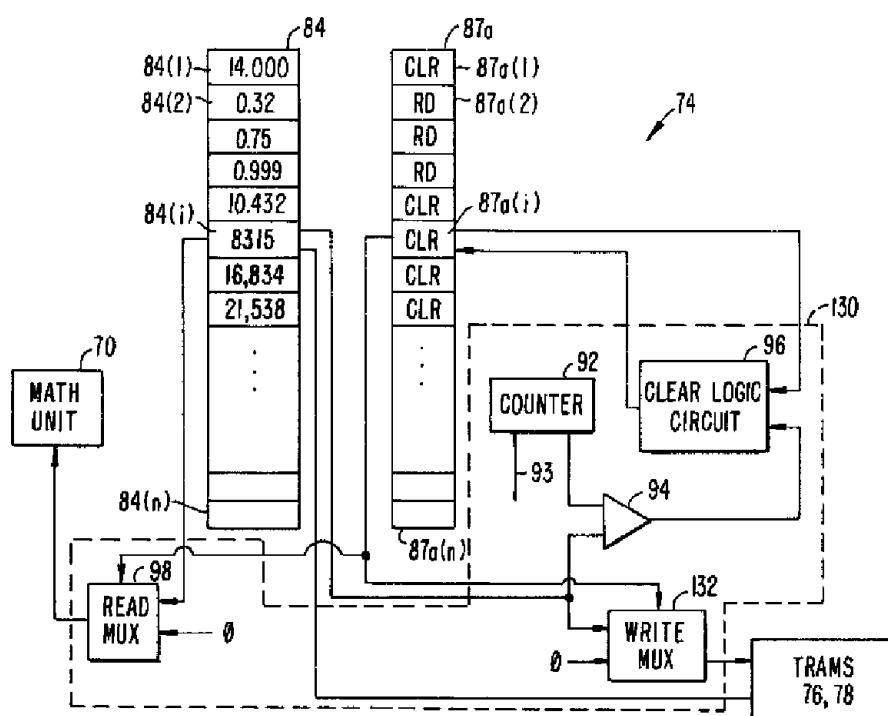


FIG. 8.

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US 6,226,661 B1

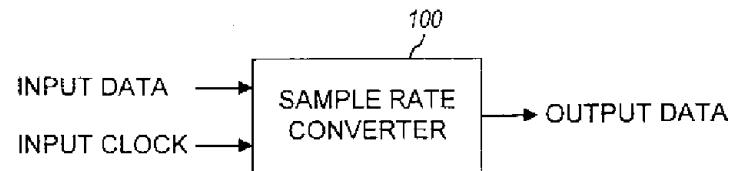


FIG. 1

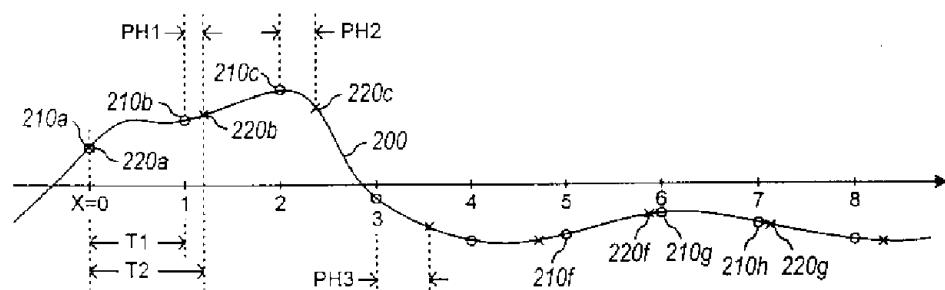


FIG. 2

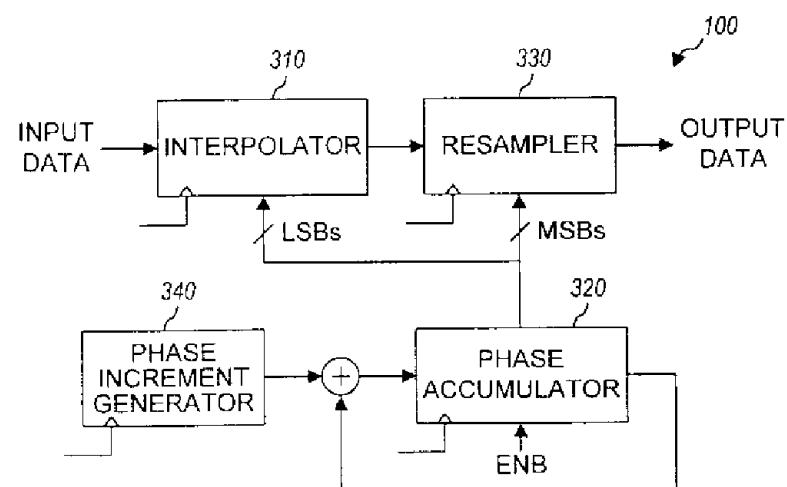


FIG. 3

U.S. Patent

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5,659,799

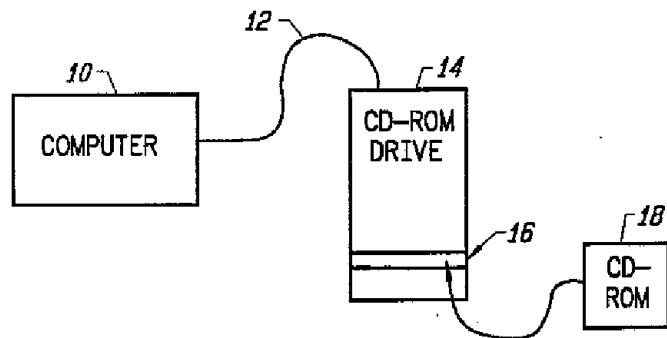


FIG. 1

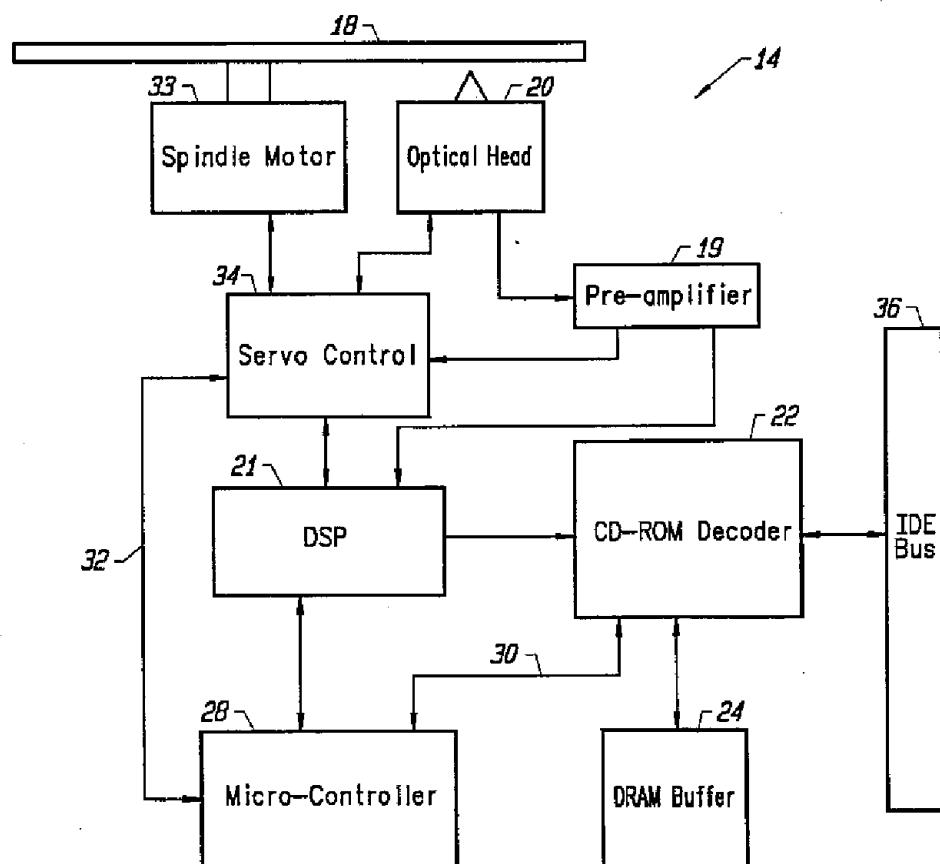


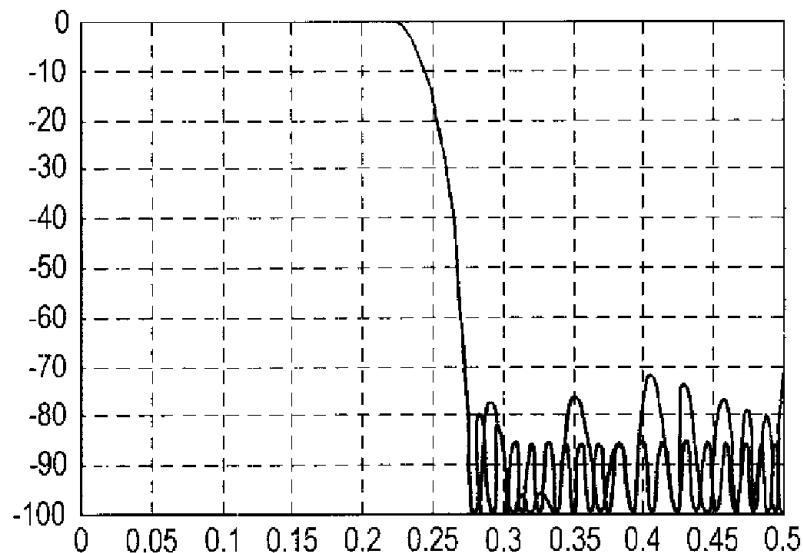
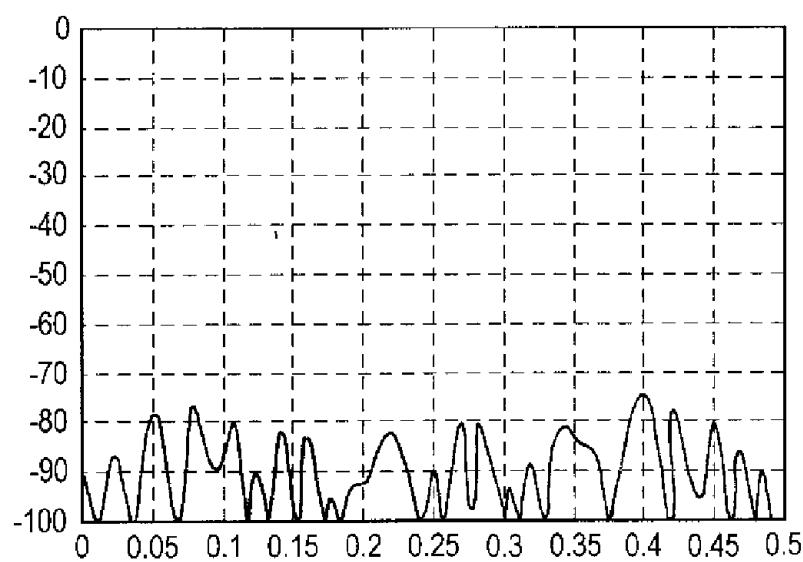
FIG. 2

Fig. 308. System for controlling disk drive by varying disk rotation speed when buffered data is above high or below low threshold for predetermined damping period (US5659799)

U.S. Patent

Mar. 19, 2002

Sheet 1 of 5

US 6,360,239 B1**FIG. 1A.****FIG. 1B.**

U.S. Patent

Jun. 15, 1999

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5,913,260

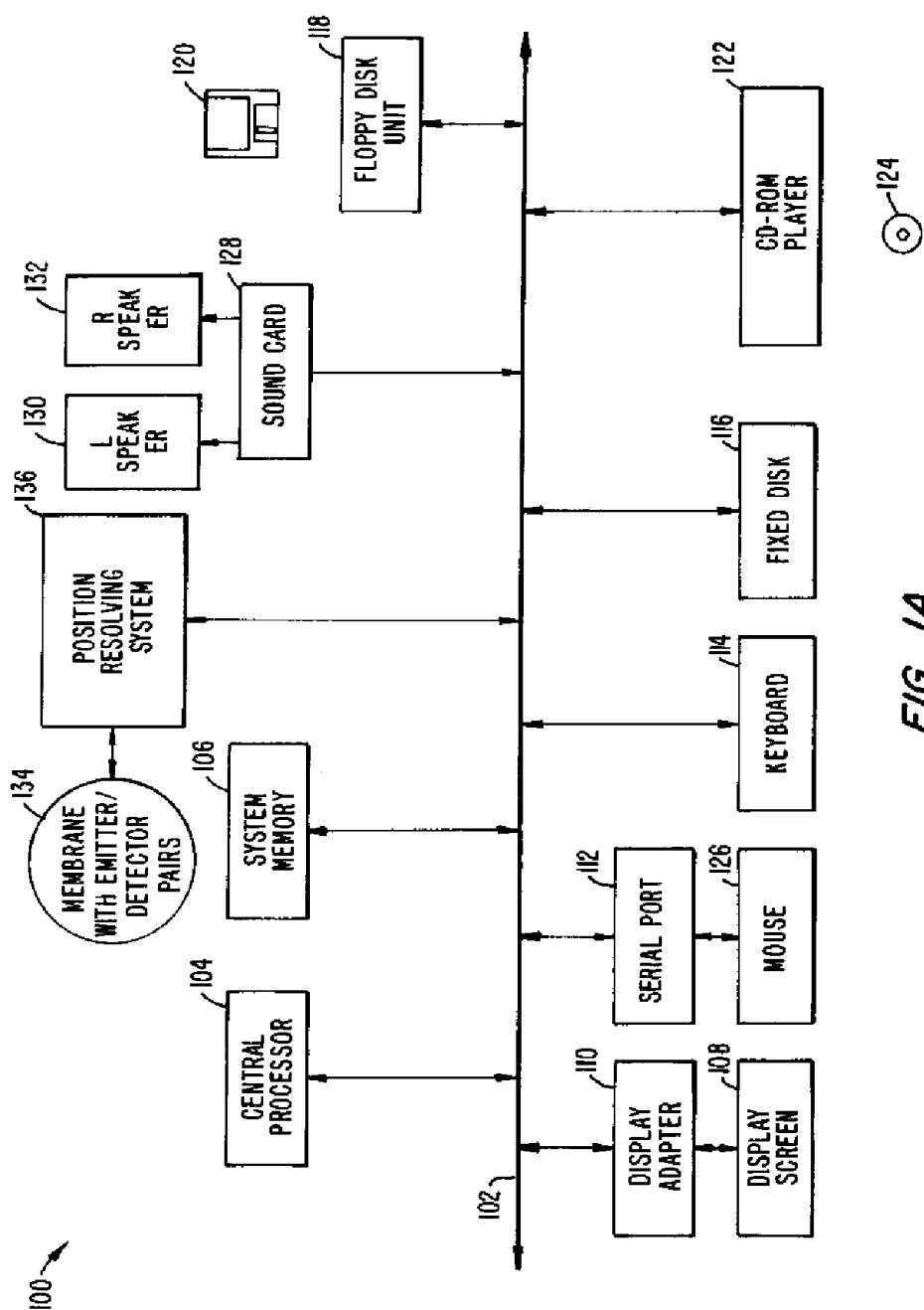


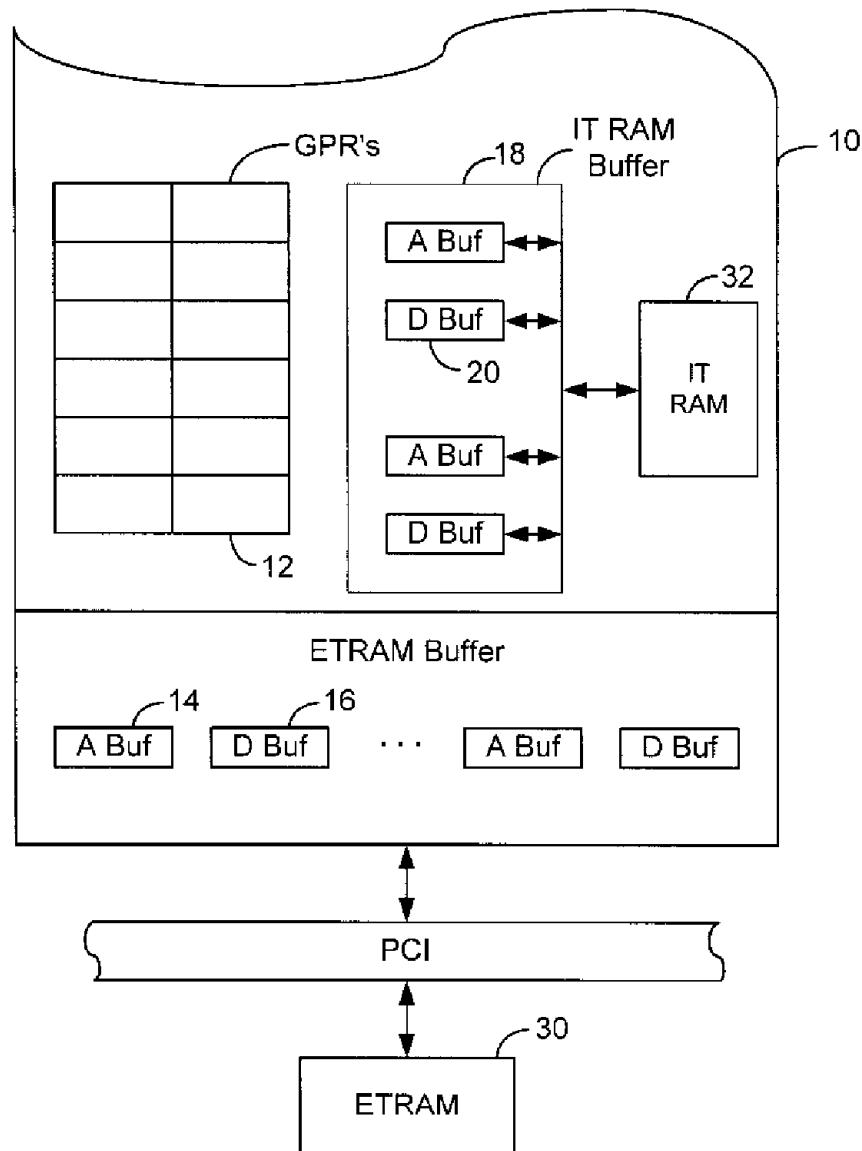
Fig. 310. System and method for detecting deformation of a membrane (US5913260)

U.S. Patent

Sep. 11, 2001

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US 6,289,435 B1

**FIG. 1.**

U.S. Patent

Aug. 20, 2002

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US 6,437,791 B1

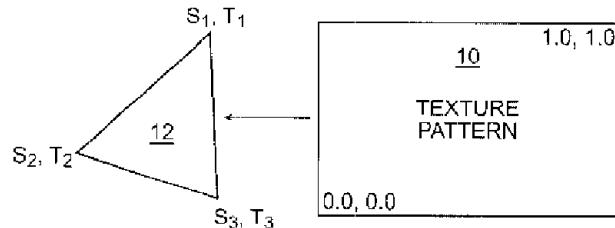


FIG. 1

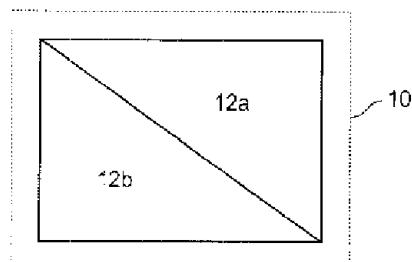


FIG. 2A

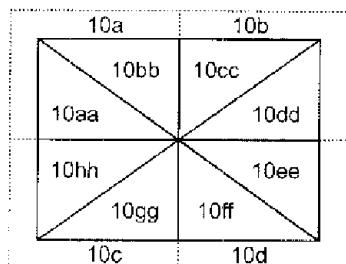


FIG. 2B

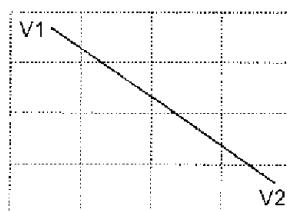


FIG. 3

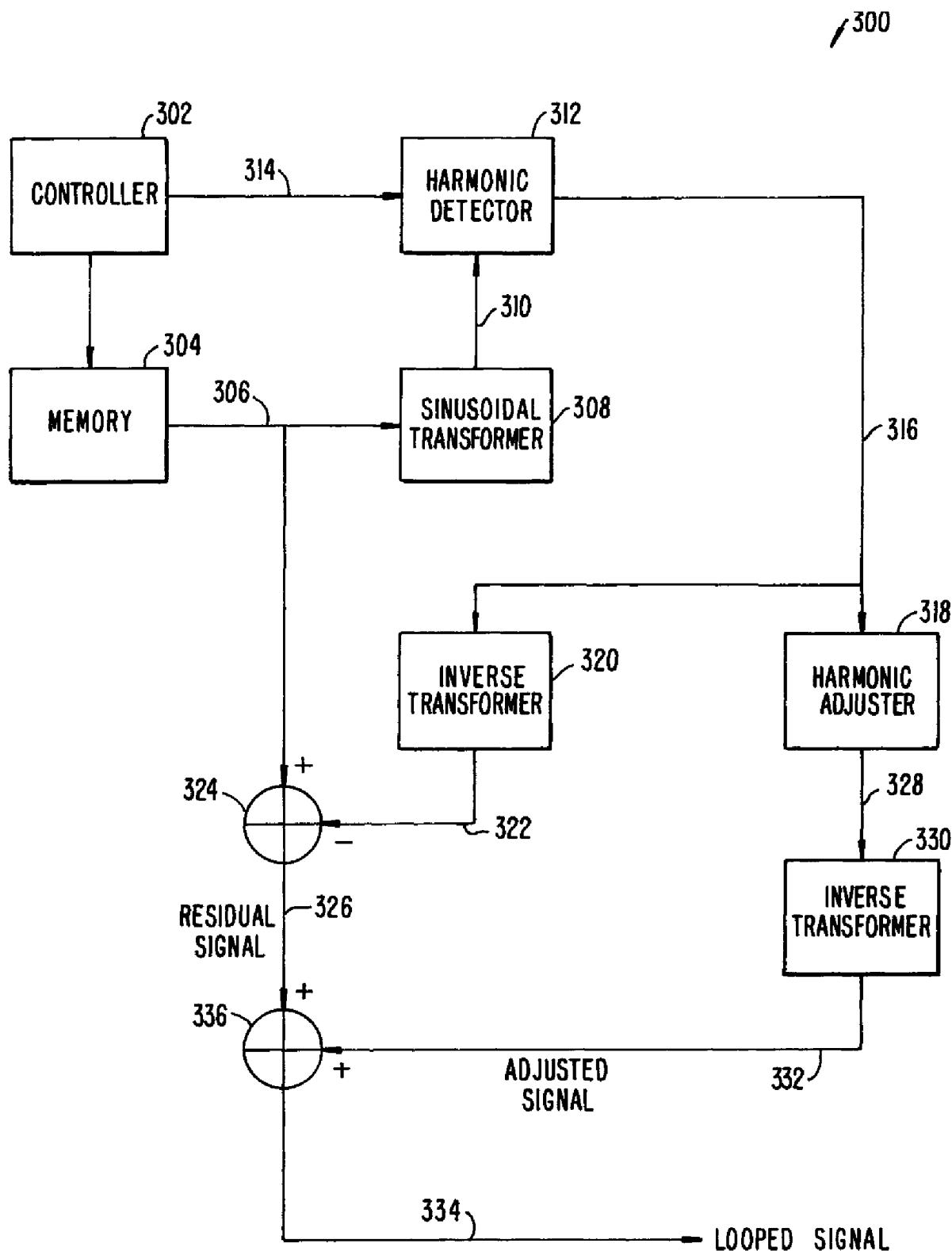


Fig. 313. Optimal looping for wavetable synthesis (US6239345)

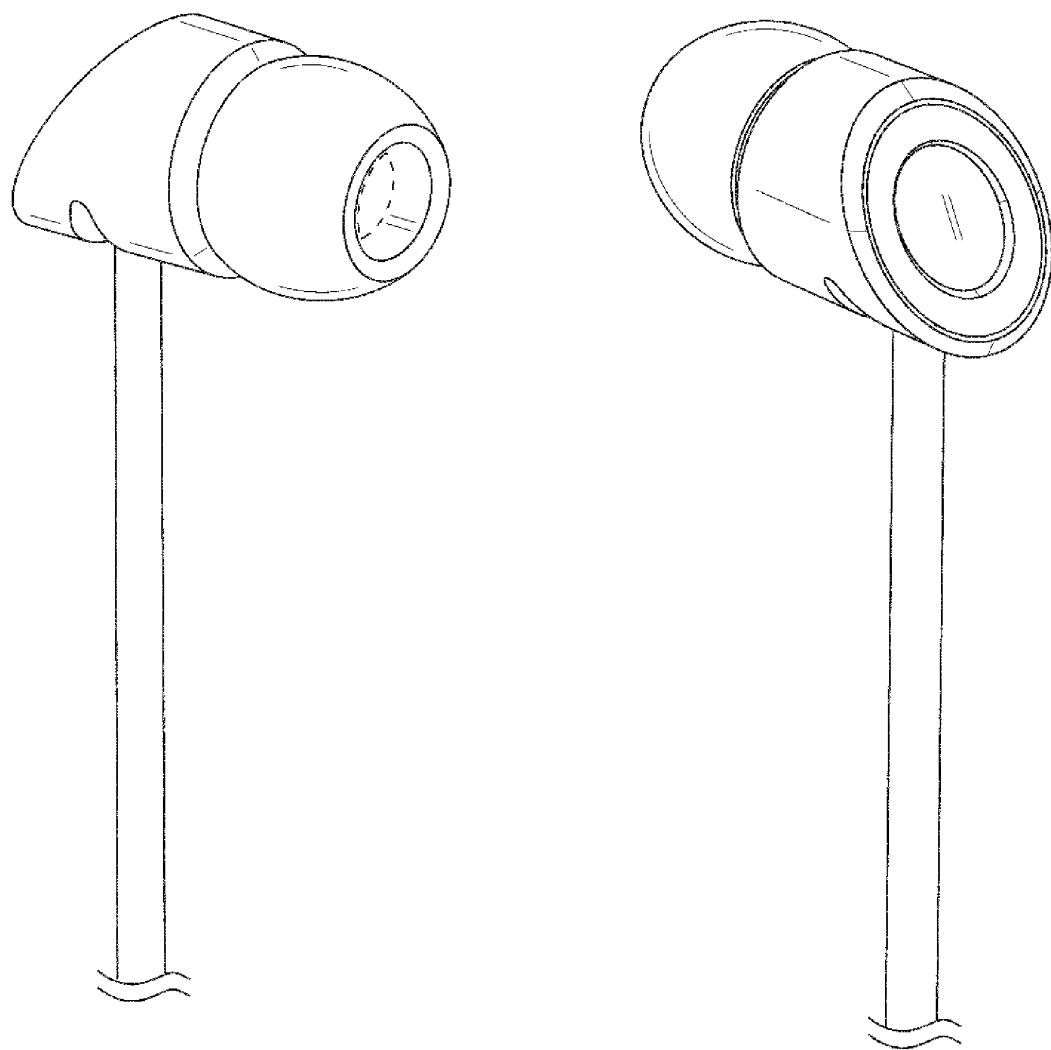


Fig. 314. Earphone (USD715776)

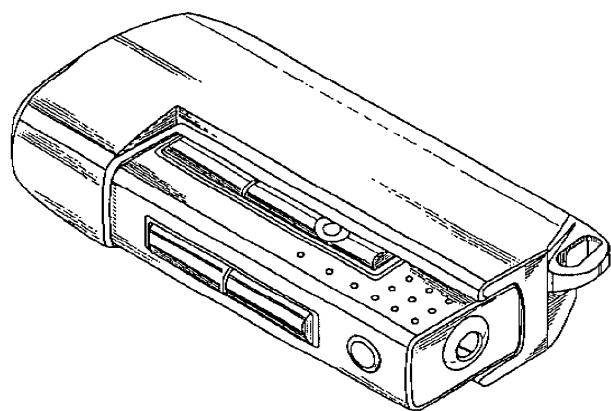


Fig. 315. Media player (USD503408)

U.S. Patent

Apr. 11, 2000

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Des. 422,590

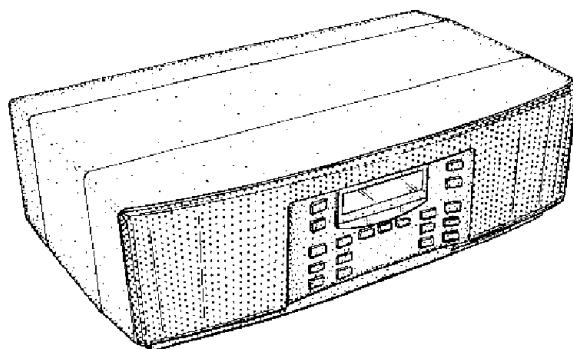


FIG. 1.

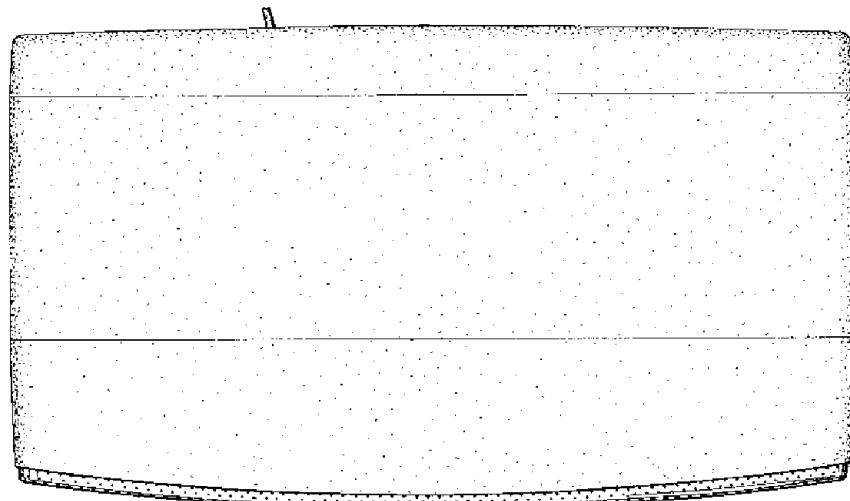


FIG. 2.

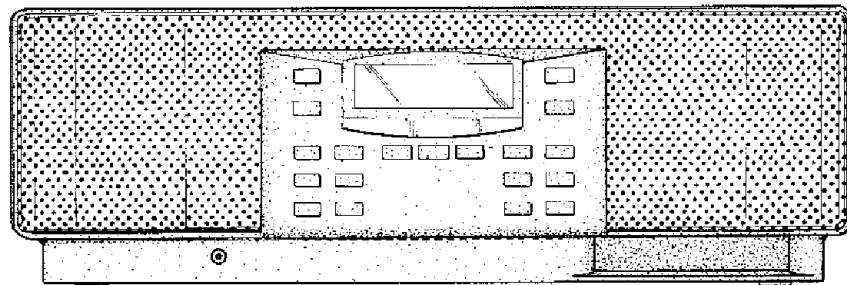


FIG. 3.

U.S. Patent

Sep. 10, 2002

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US 6,449,371 B1

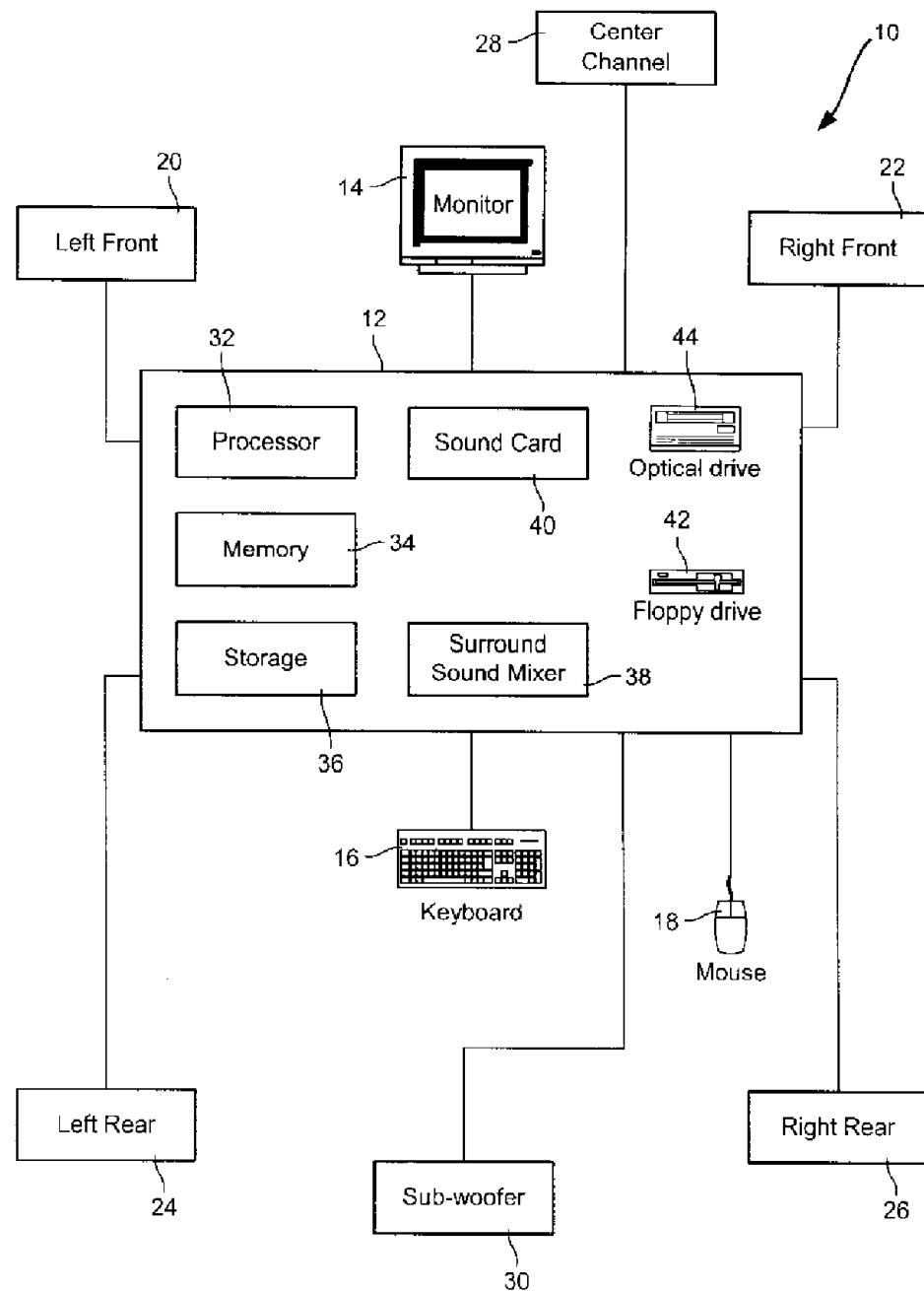


FIG. 1

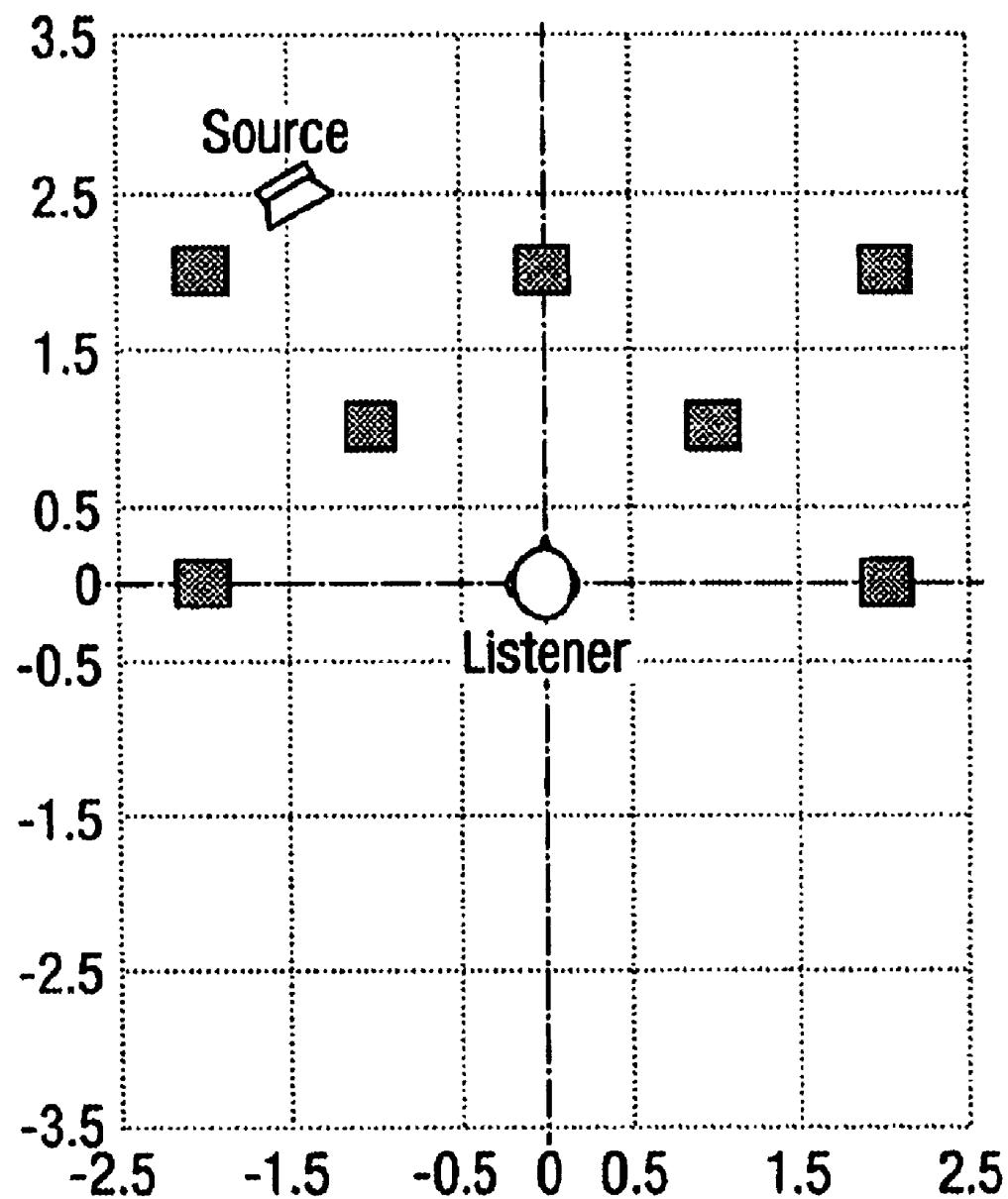


Fig. 318. Method of audio signal processing for a loudspeaker located close to an ear (US6738479)

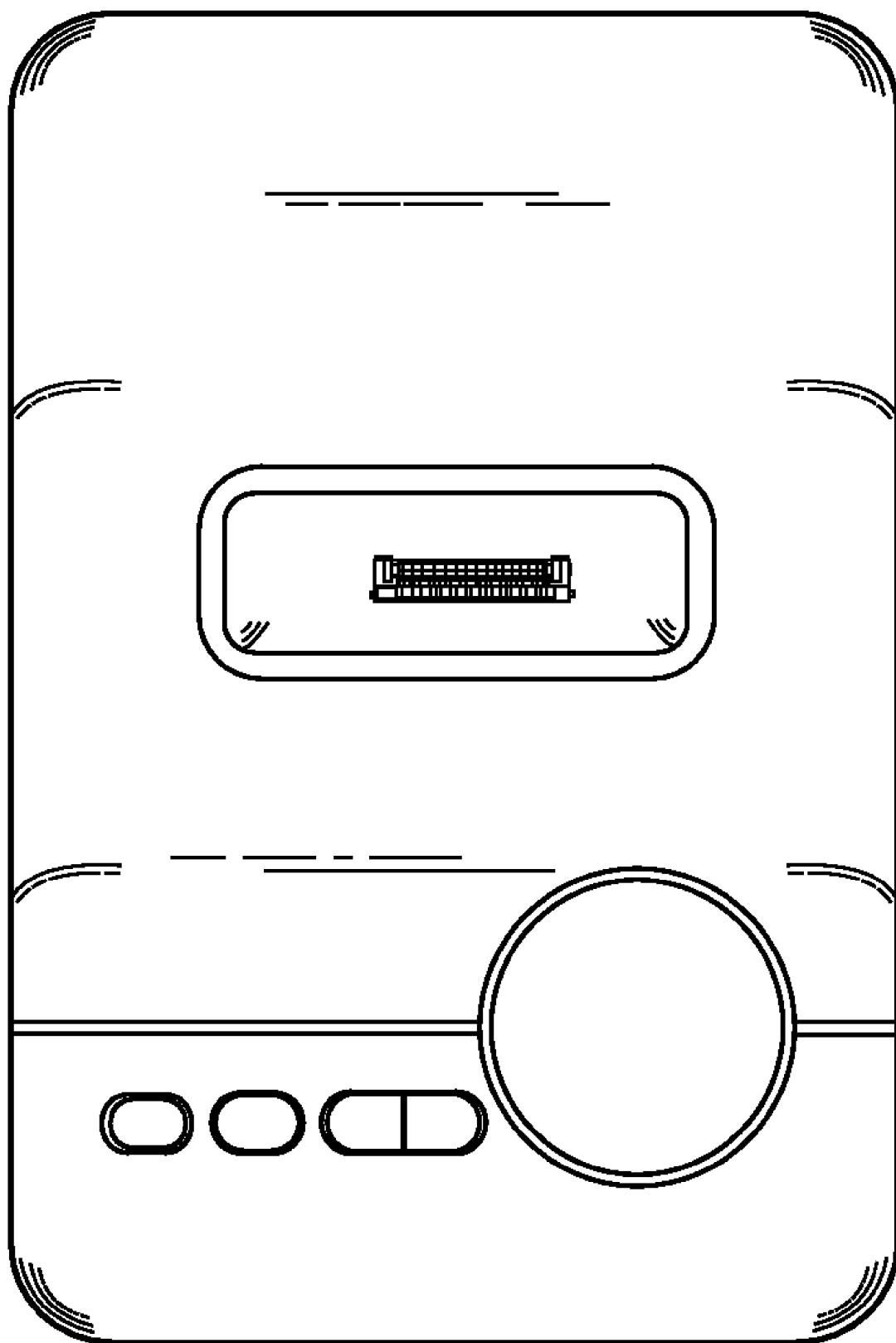


Fig. 319. Audio processor (USD592226)

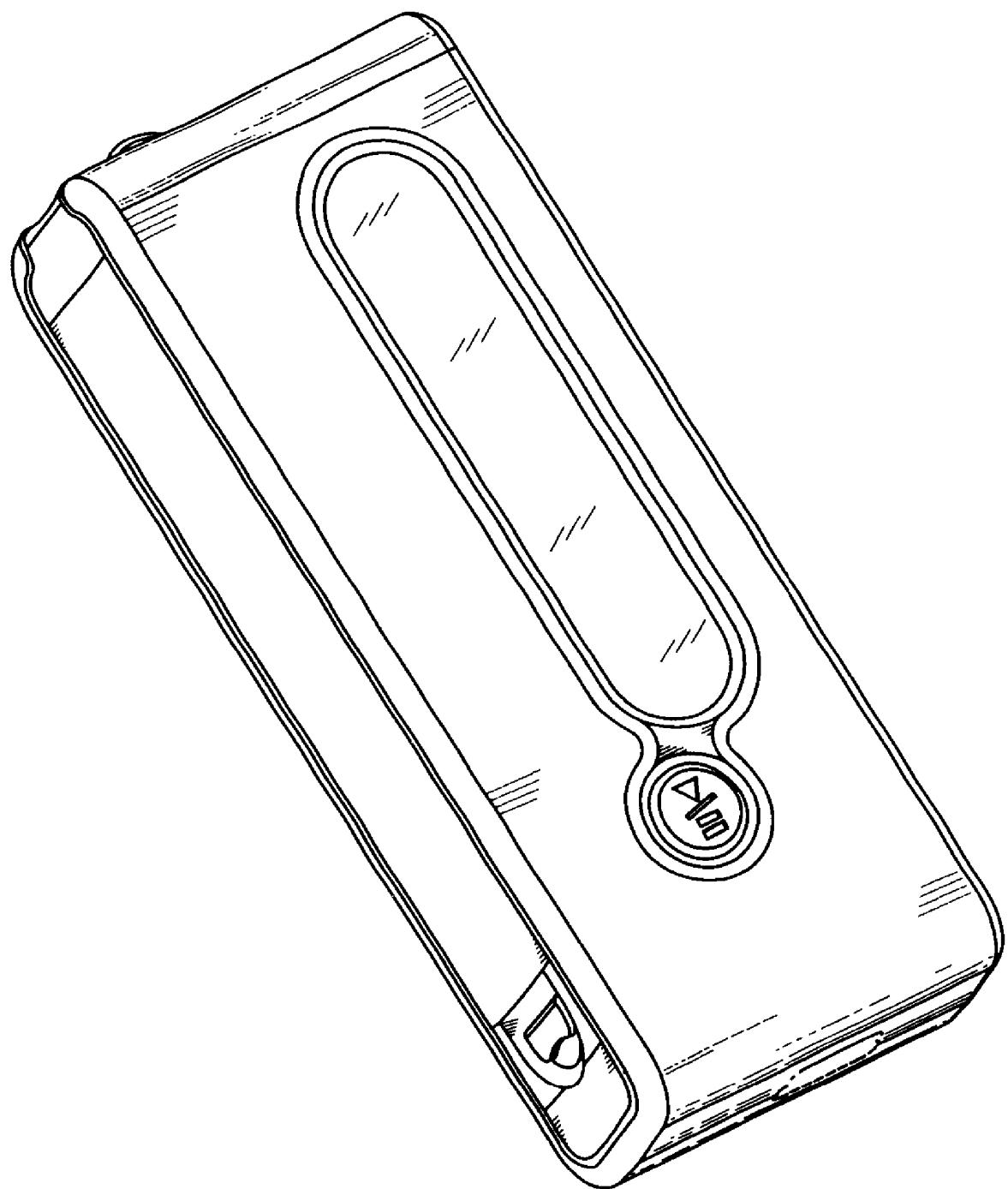


Fig. 320. Media player (USD518064)

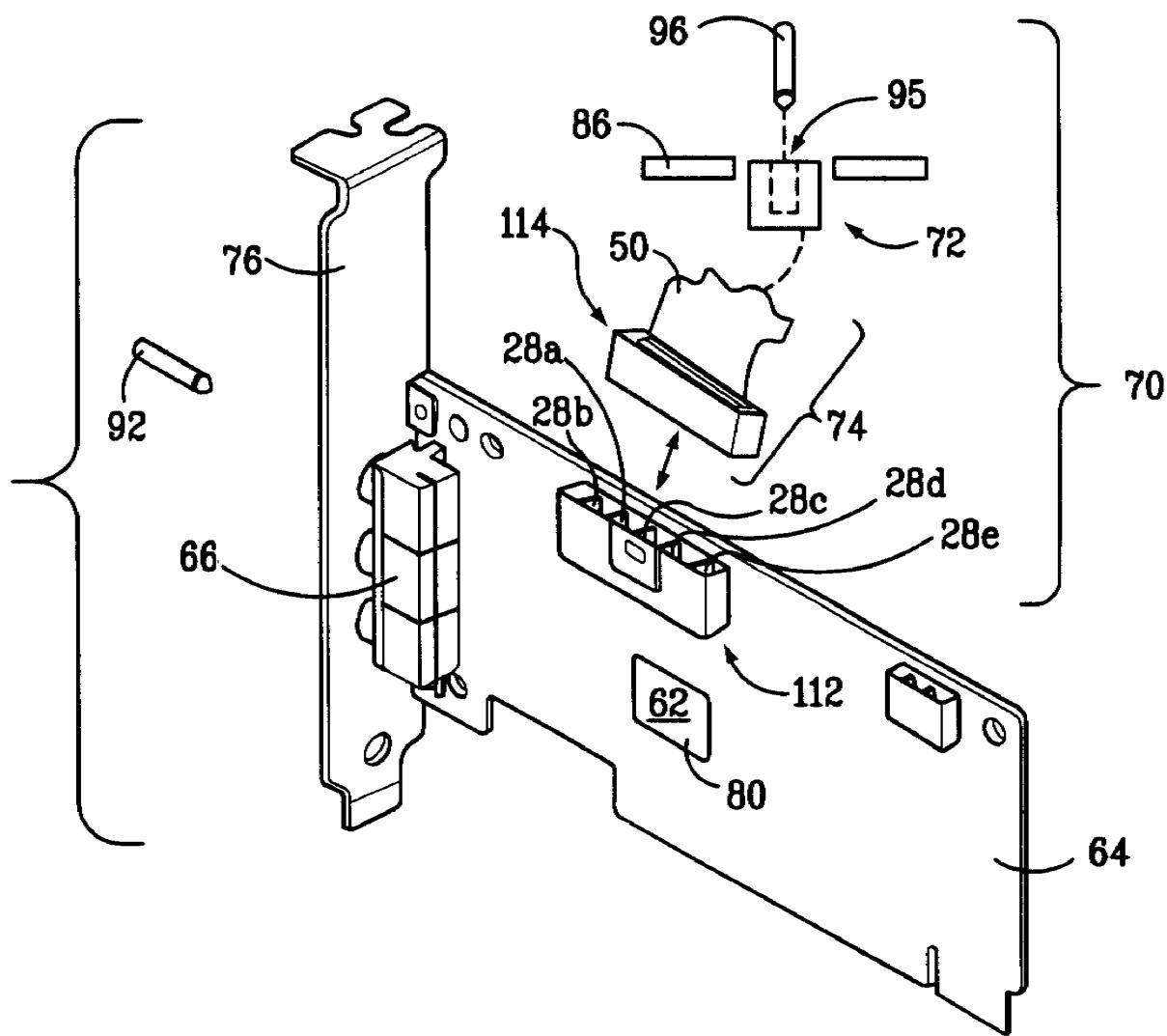


Fig. 321. Switching connector header and audio circuit sound card and method employing same (US6491533)

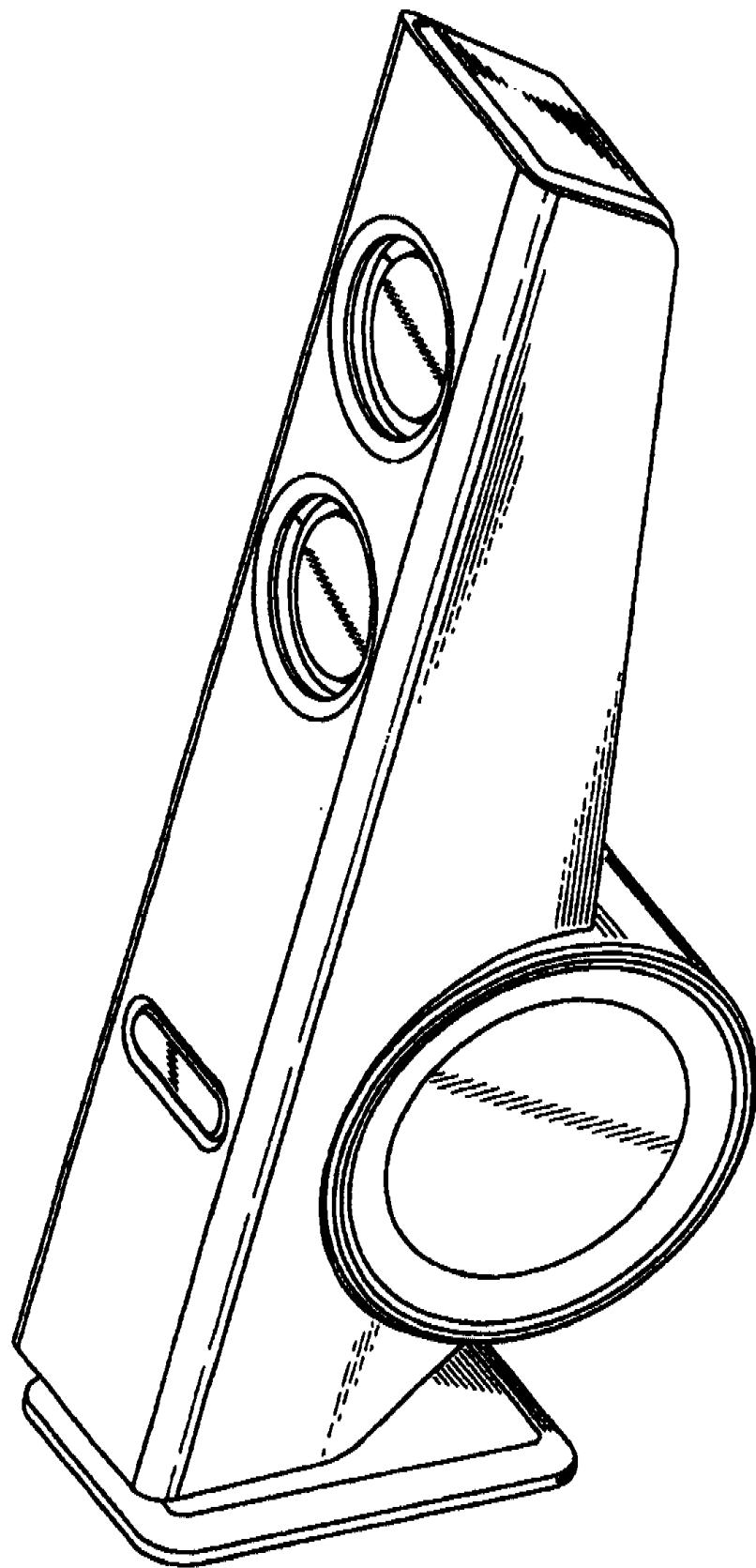


Fig. 322. Loudspeaker (USD539270)

U.S. Patent Mar. 7, 2006 Sheet 1 of 6 US 7,010,370 B1

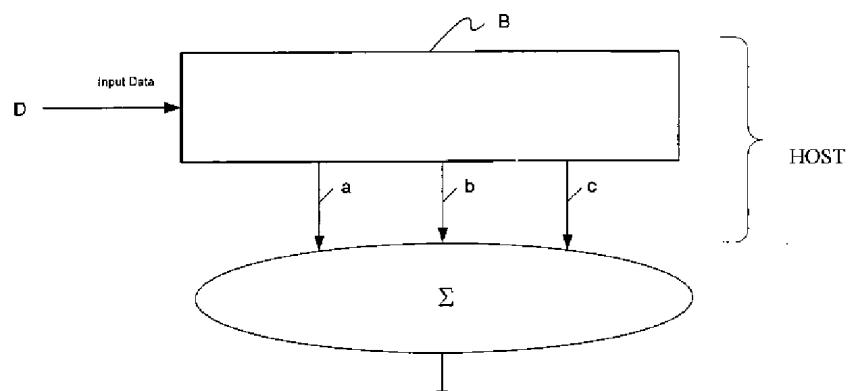


FIG. 1
PRIOR ART

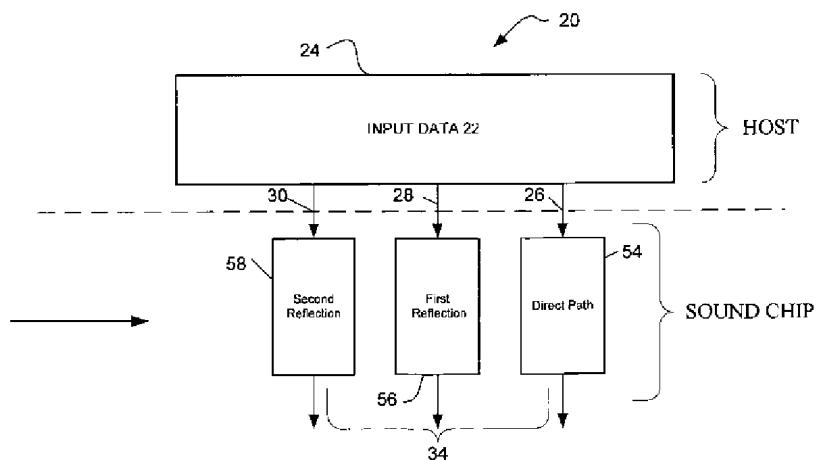


FIG. 2

Fig. 323. System and method for adjusting delay of an audio signal (US7010370)

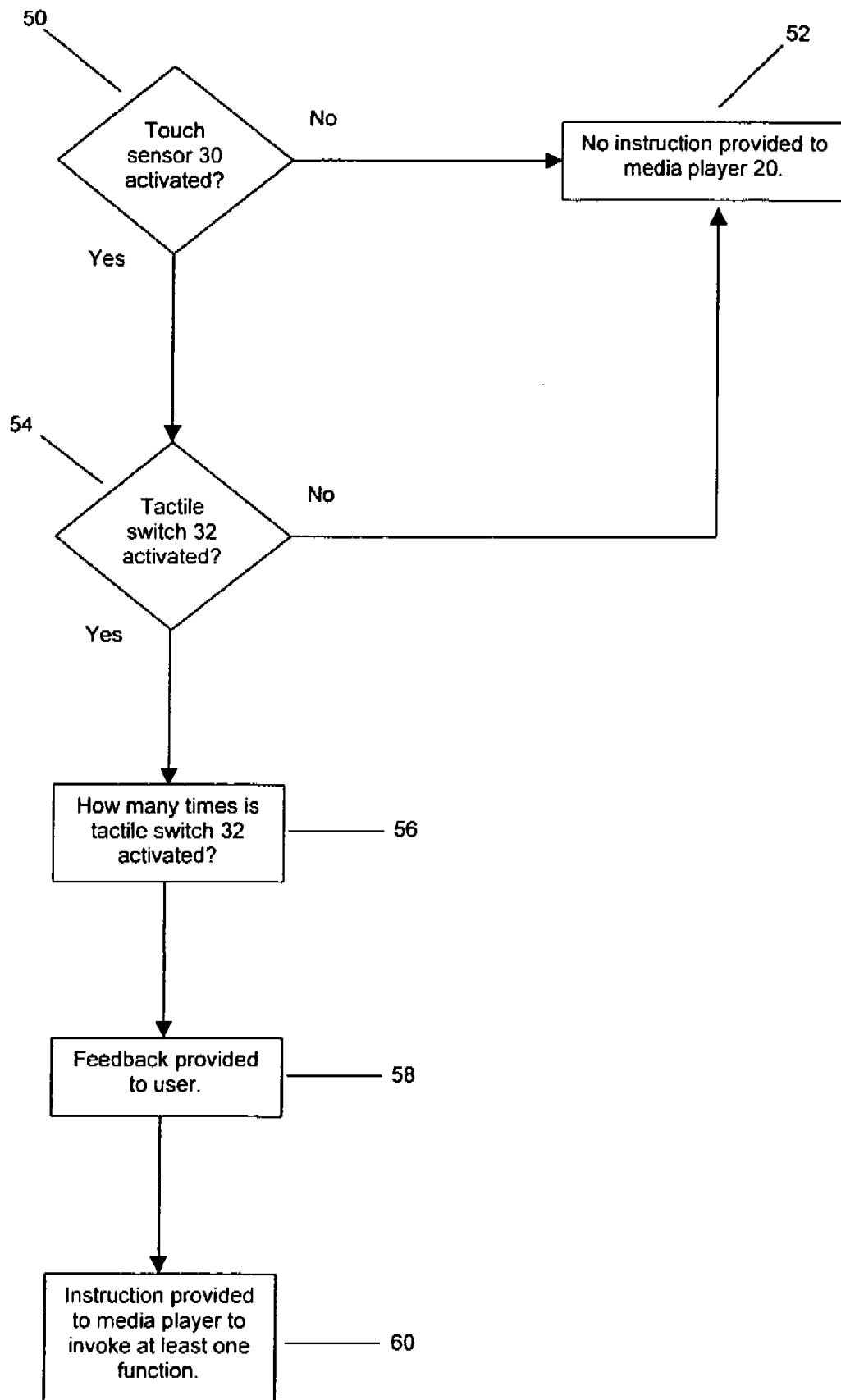


Fig. 324. Control interface for media player (US2007290992)

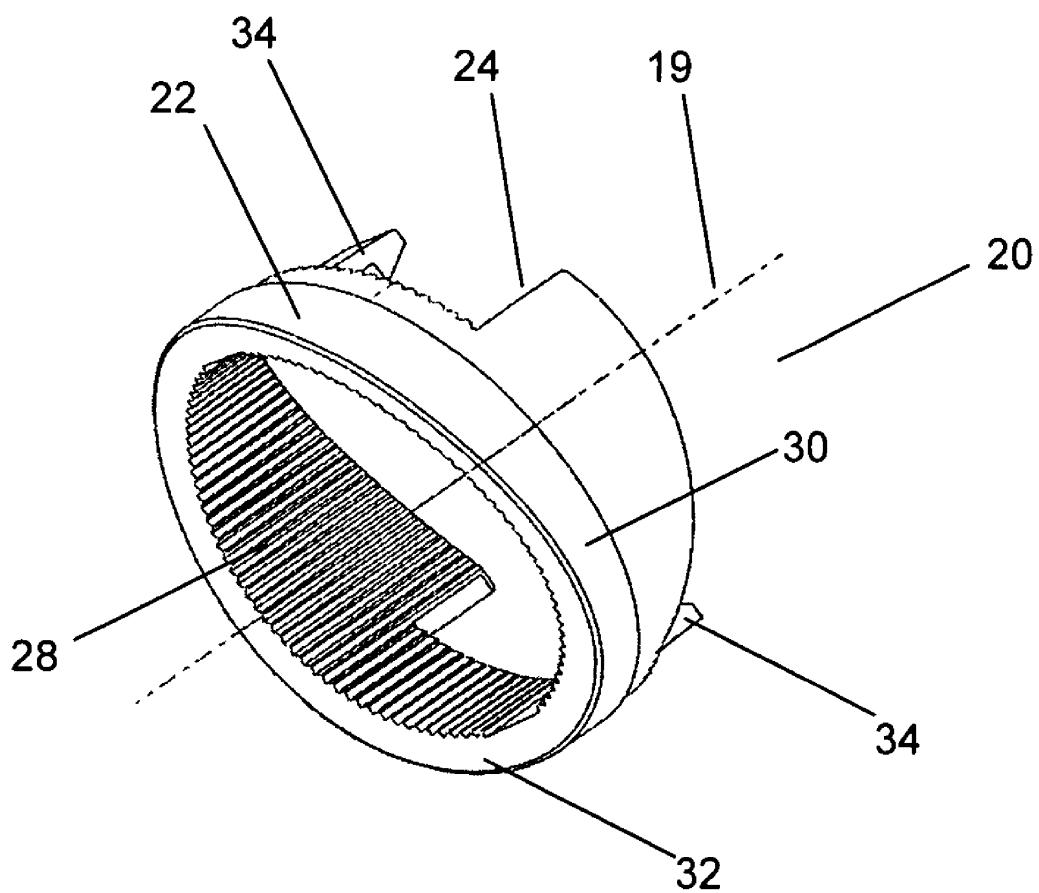


Fig. 325. Apparatus for providing an ambient glow (US2008151566)

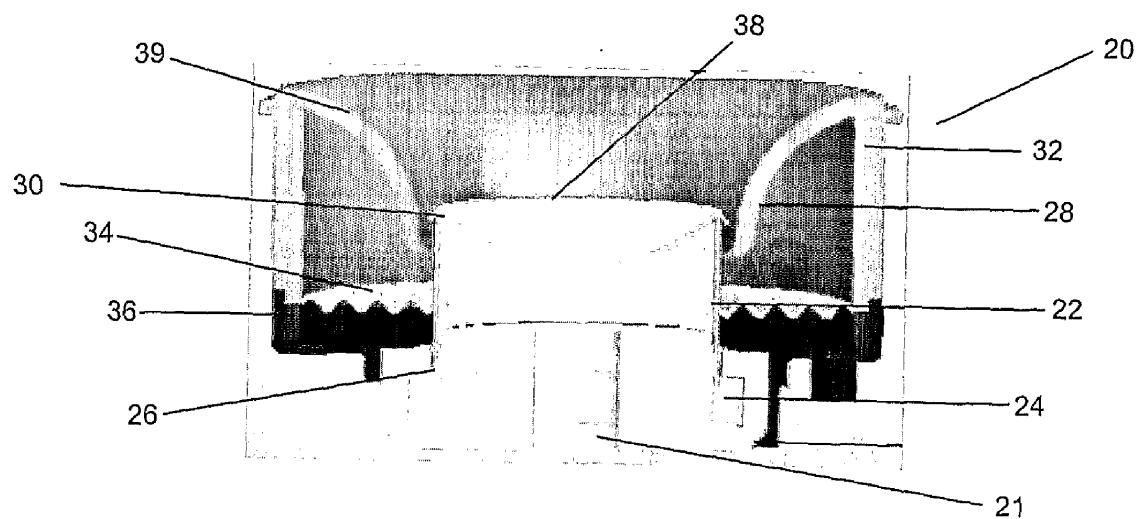


Fig. 326. A micro speaker (US2010177920)

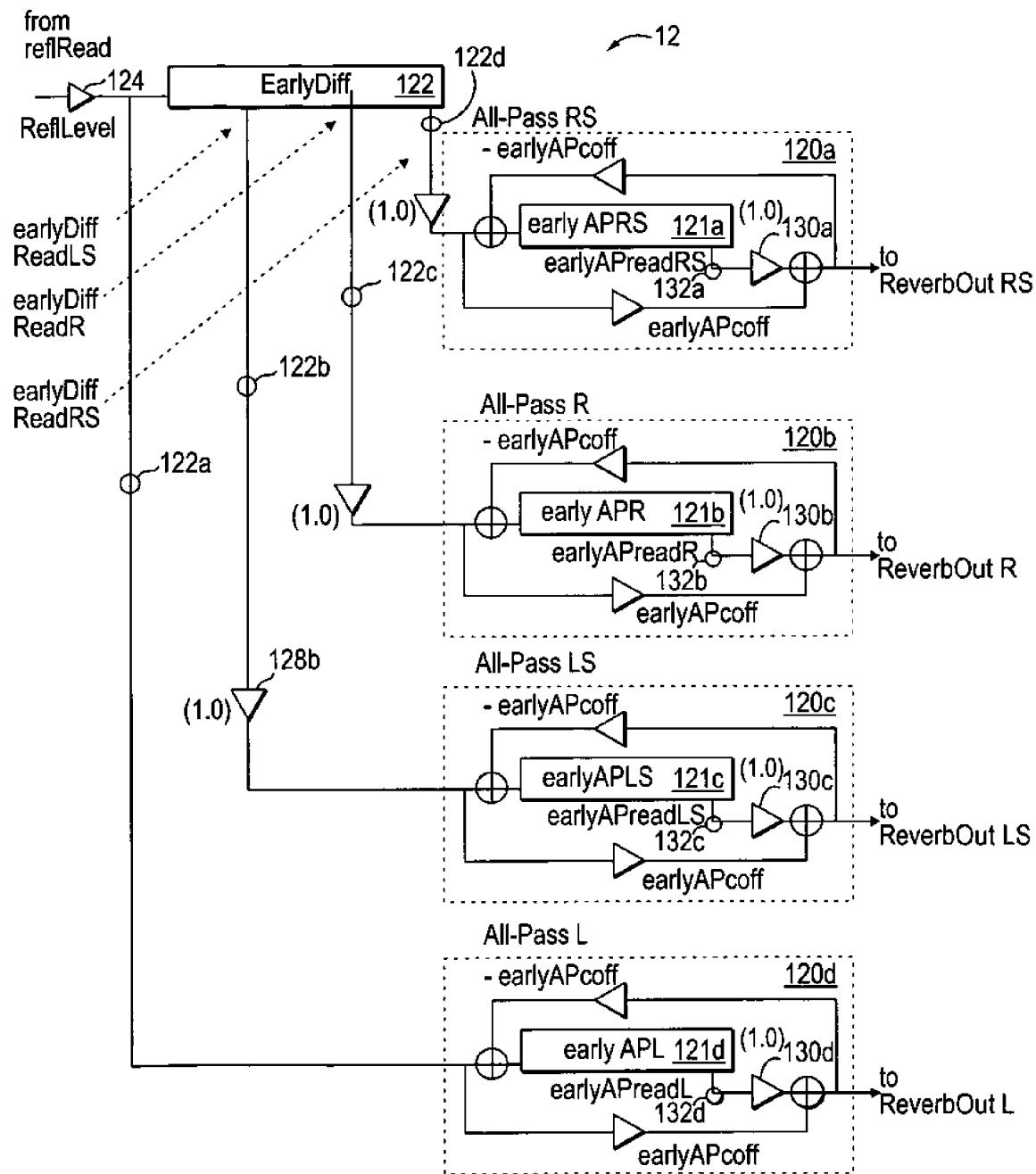


Fig. 327. Reverberation processor for interactive audio applications (US6978027)

U.S. Patent

Mar. 27, 2007

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US 7,197,151 B1

Fig. 1.

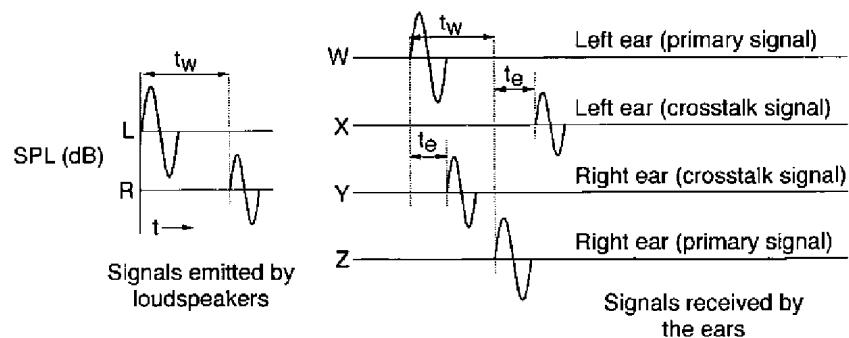
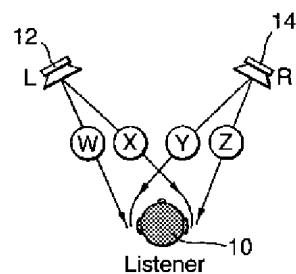
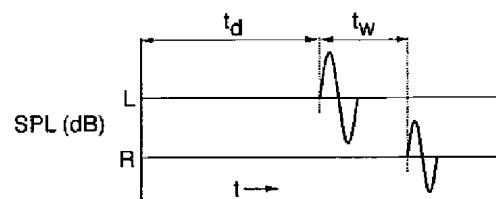
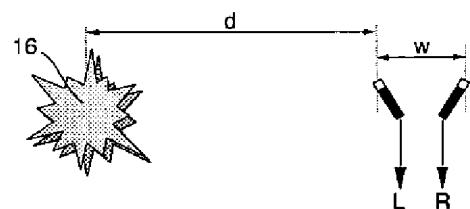


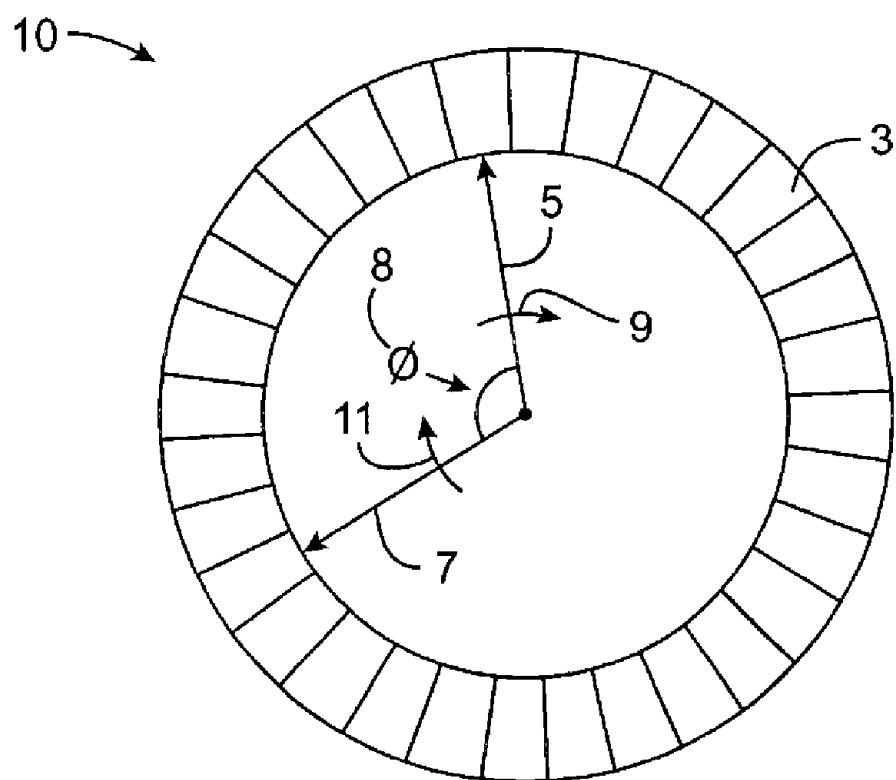
Fig. 328. Method of improving 3D sound reproduction (US7197151)

U.S. Patent

Nov. 27, 2001

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US 6,324,235 B1



(BUFFER: Prior Art)

FIG. 1

Fig. 329. Asynchronous sample rate tracker (US6324235)

U.S. Patent

Mar. 13, 2001

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US 6,201,486 B1

FIG. 1
PRIOR ART

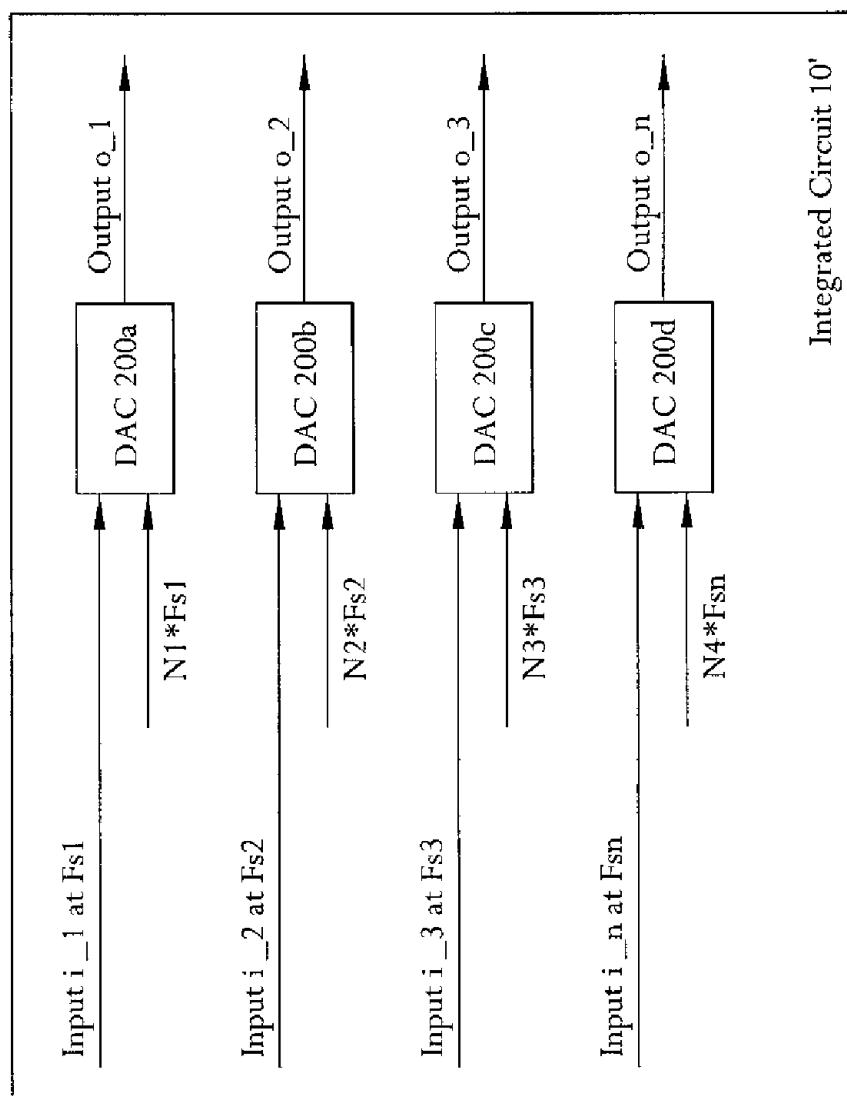


Fig. 330. Pre processing of multiple sample rates sources to simplify and improve multi channel DAC design (US6201486)

U.S. Patent

May 5, 1998

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5,748,747

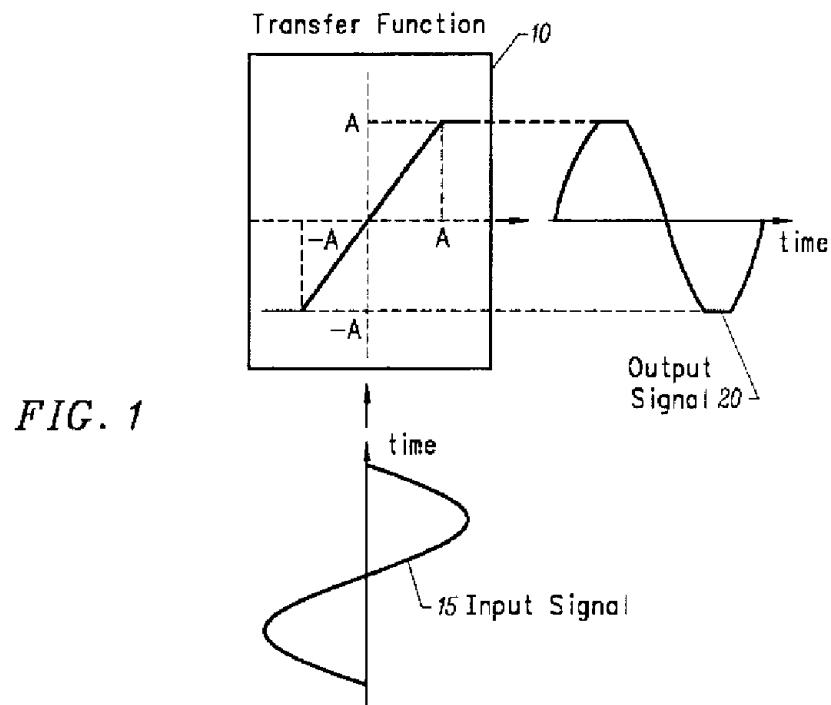


FIG. 1

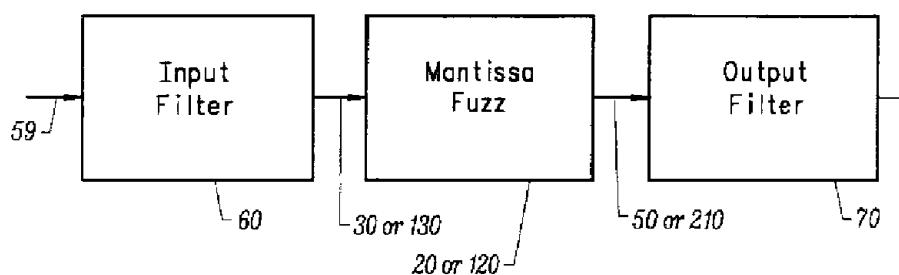


FIG. 9

Fig. 331. Digital signal processor for adding harmonic content to digital audio signal (US5748747)

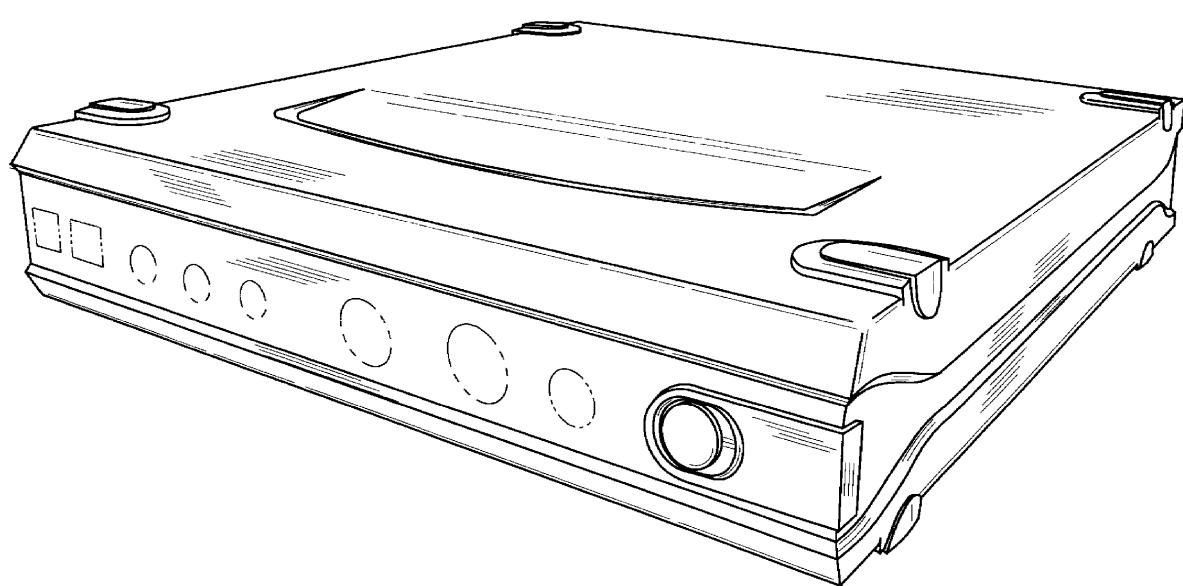


Fig. 332. Housing for electronic components (USD476002)

U.S. Patent

Jan. 4, 2000

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Des. 418,488



FIG. 12

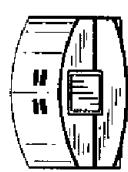


FIG. 13



FIG. 14

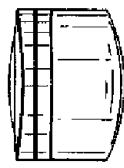


FIG. 10

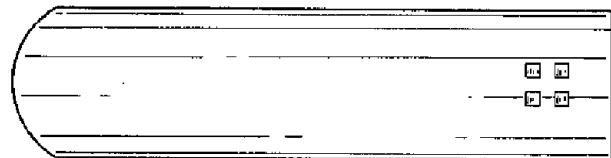


FIG. 11



FIG. 9

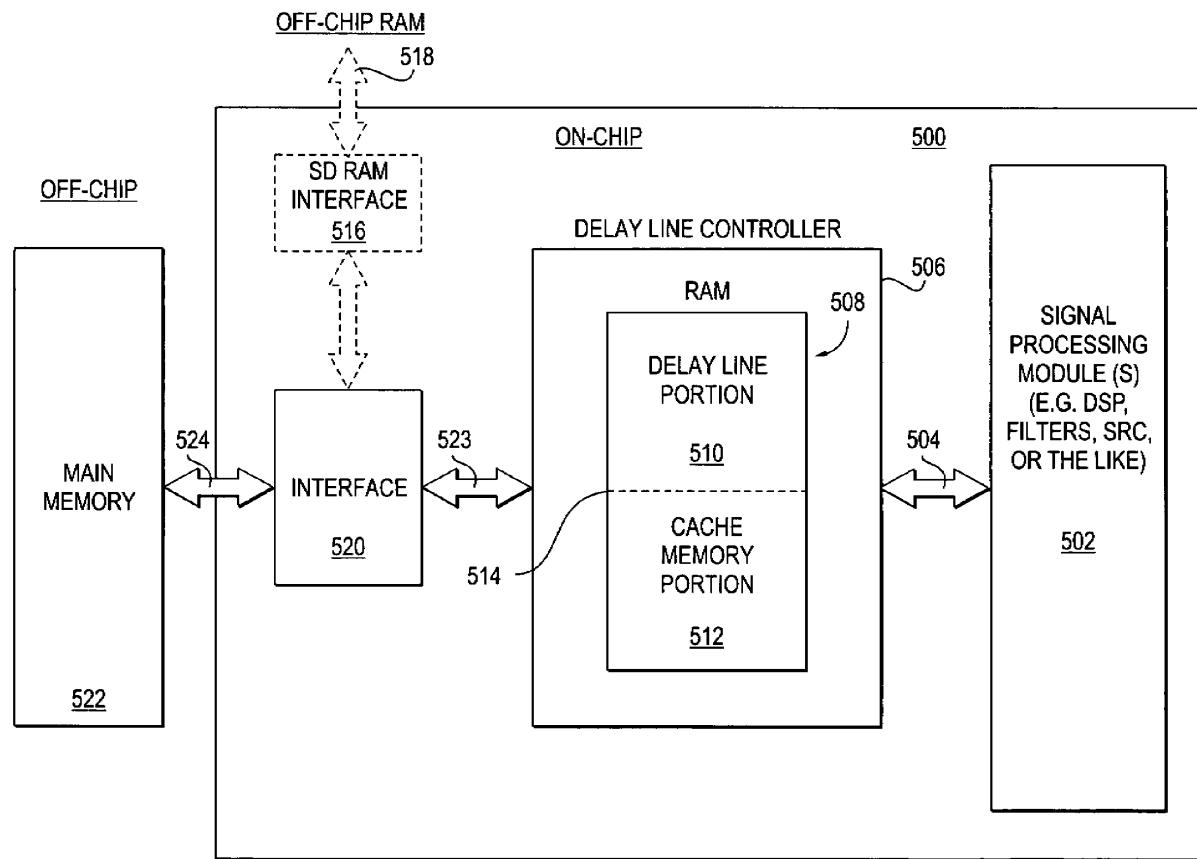


Fig. 334. Method and circuit to combine cache and delay line memory (US7107401)

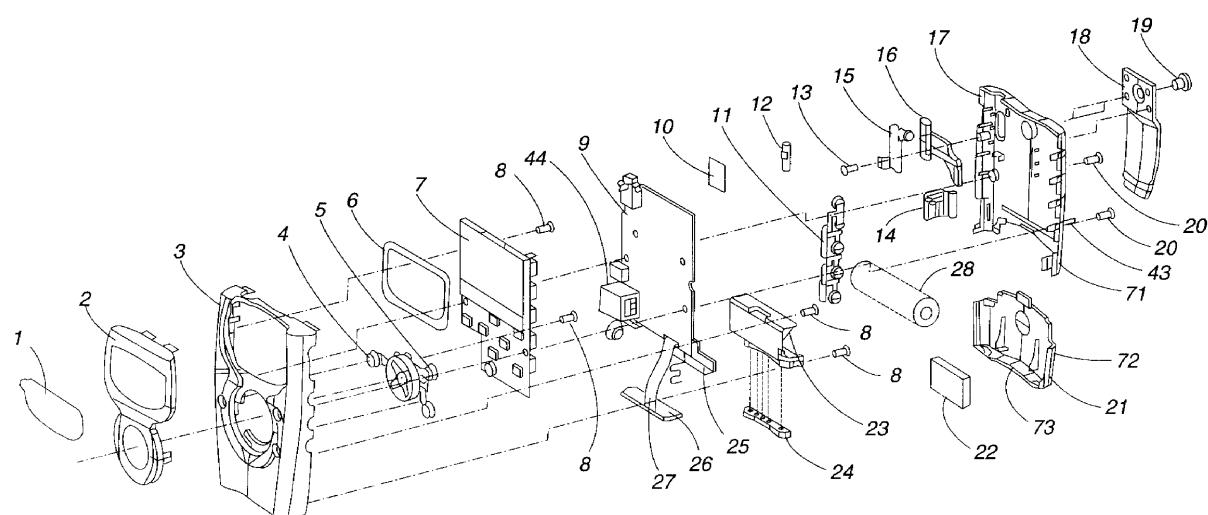


Fig. 335. Docking interface for portable device (US6461181)

U.S. Patent

Nov. 16, 1999

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Des. 416,546

FIG. 1

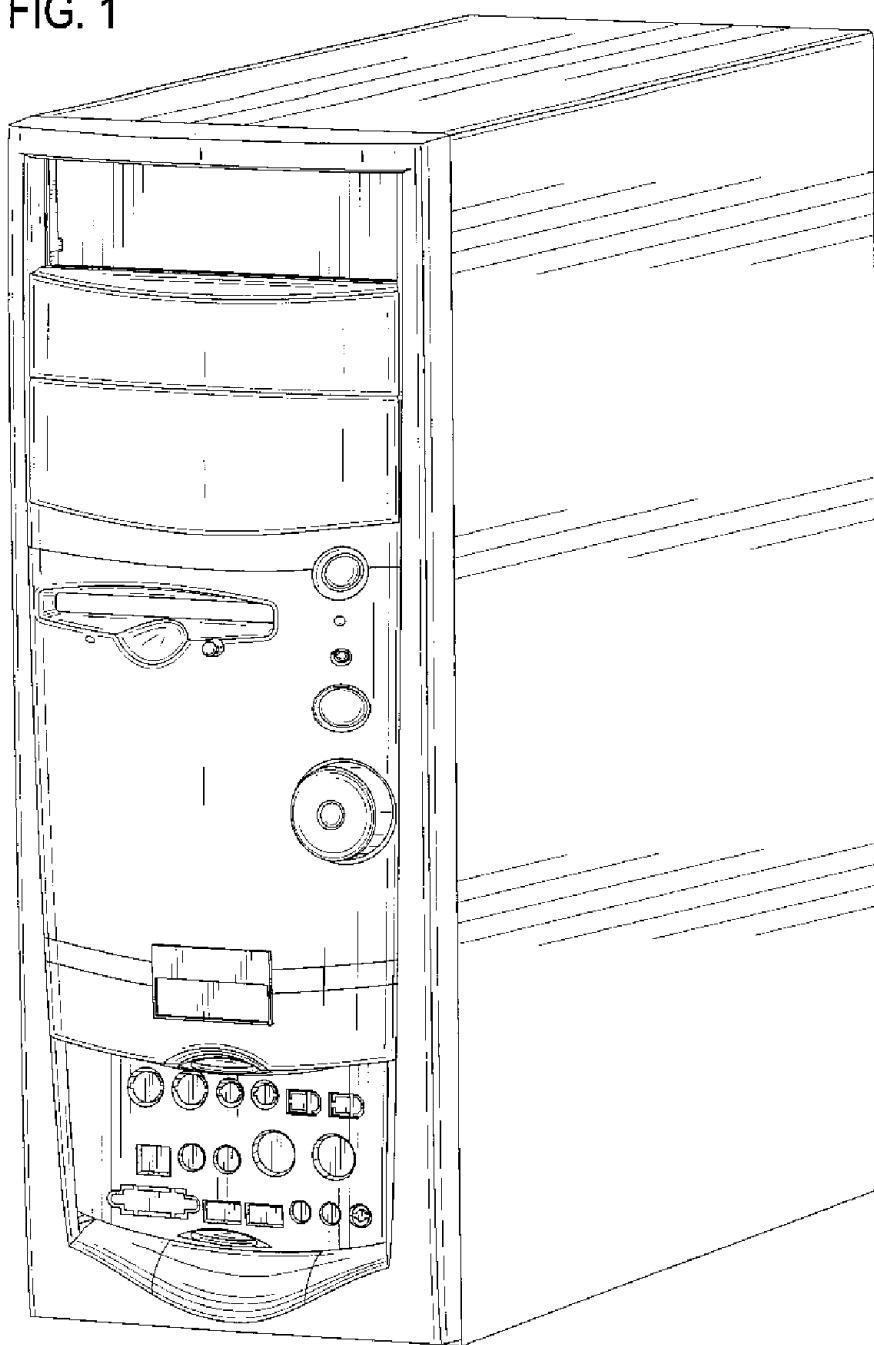


Fig. 336. Computer casing (USD416546)

U.S. Patent

Dec. 16, 2003

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US 6,665,407 B1

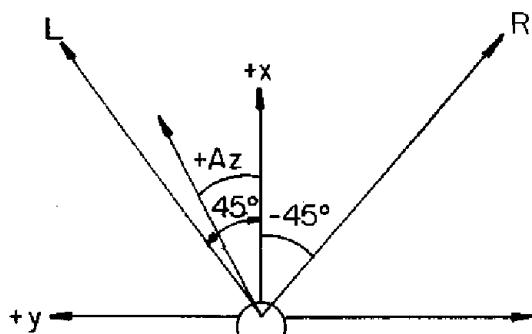


FIG. 1

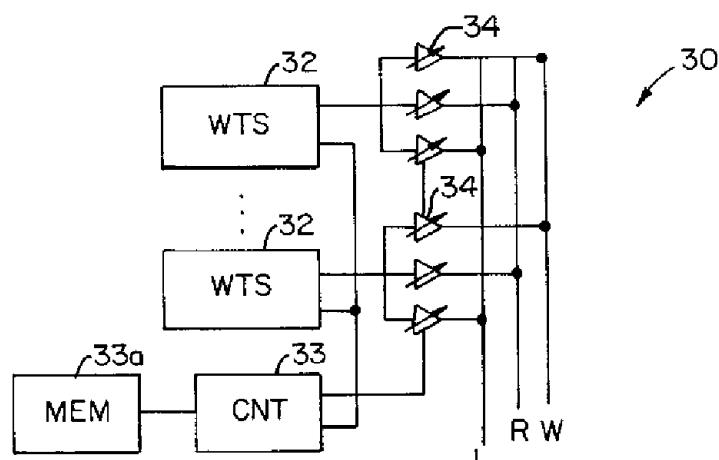


FIG. 2

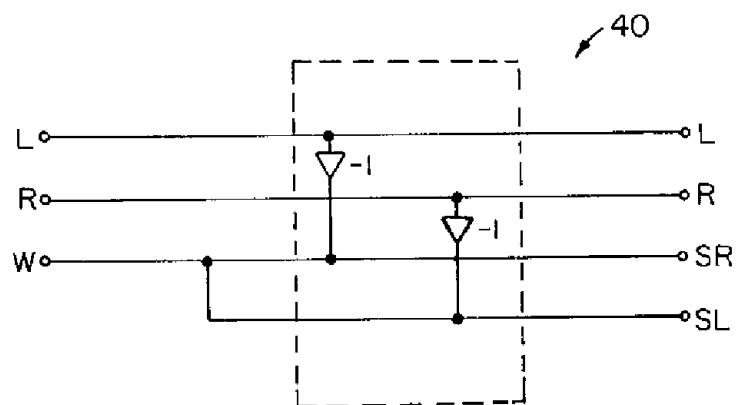


FIG. 3

U.S. Patent

Sep. 17, 2002

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US 6,453,047 B1

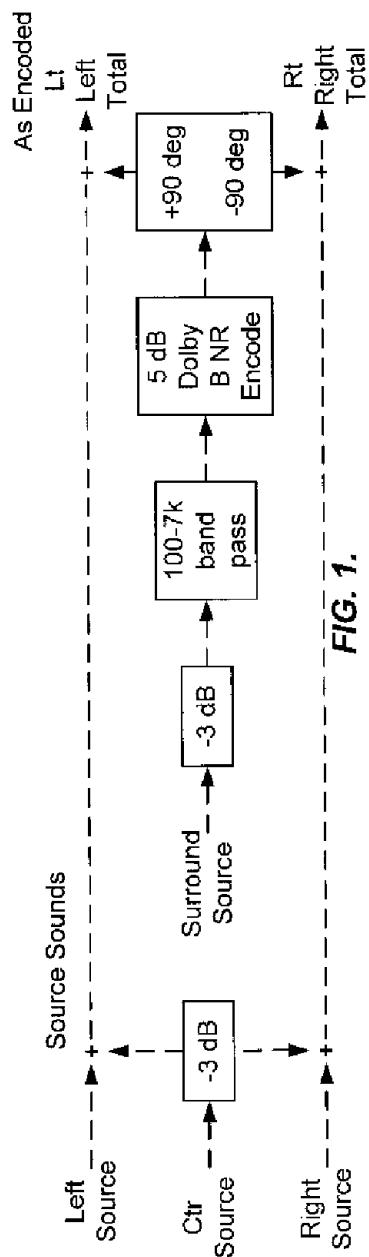


FIG. 1.

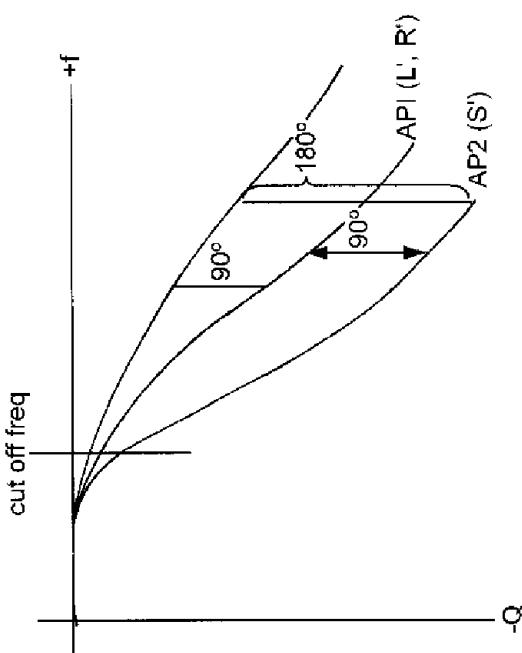


FIG. 3.

Fig. 338. Matrix encoding system with improved behavior frequency (US6453047)

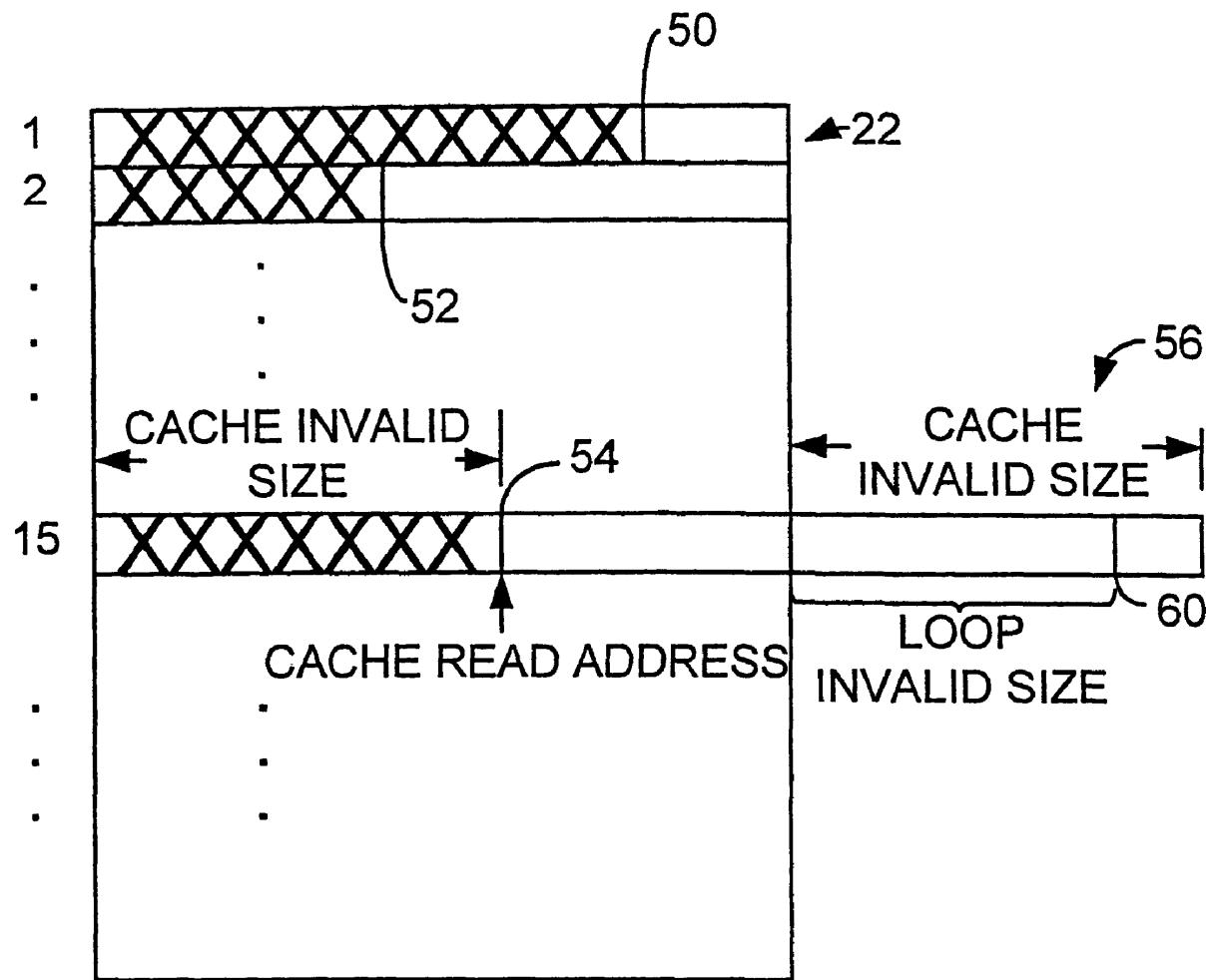


Fig. 339. Interpolation looping of prioritized audio samples in cache connected to system bus (US6622207)

U.S. Patent

Feb. 25, 2003

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US 6,526,518 B1

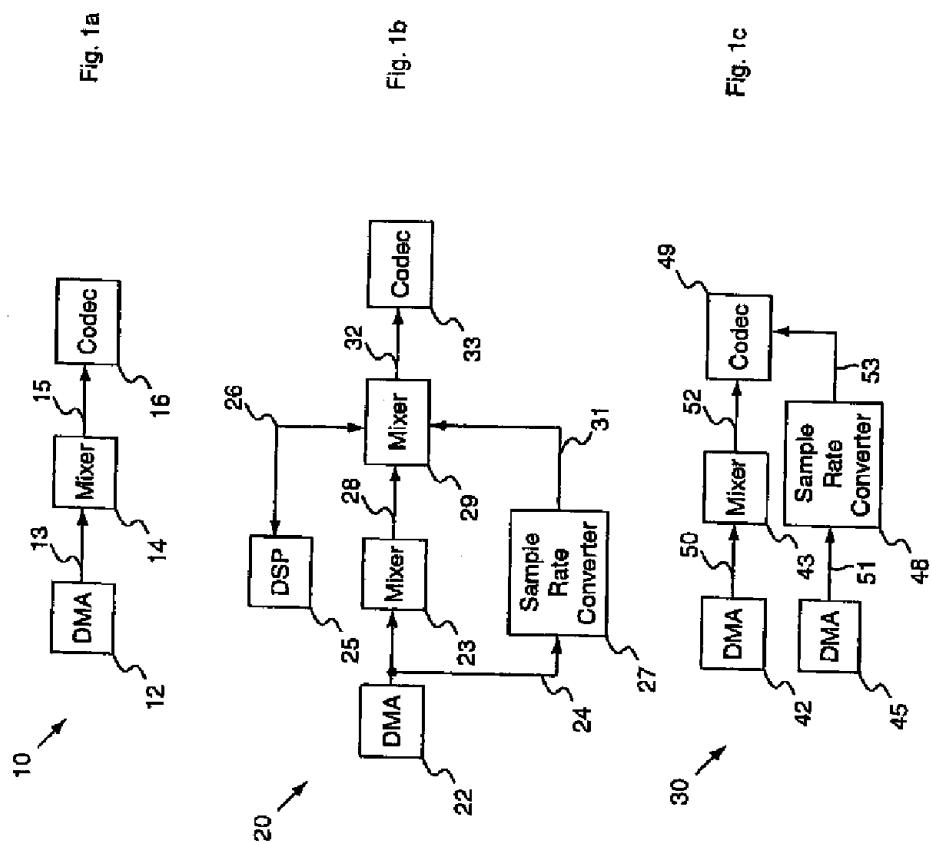


Fig. 340. Programmable bus (US6526518)

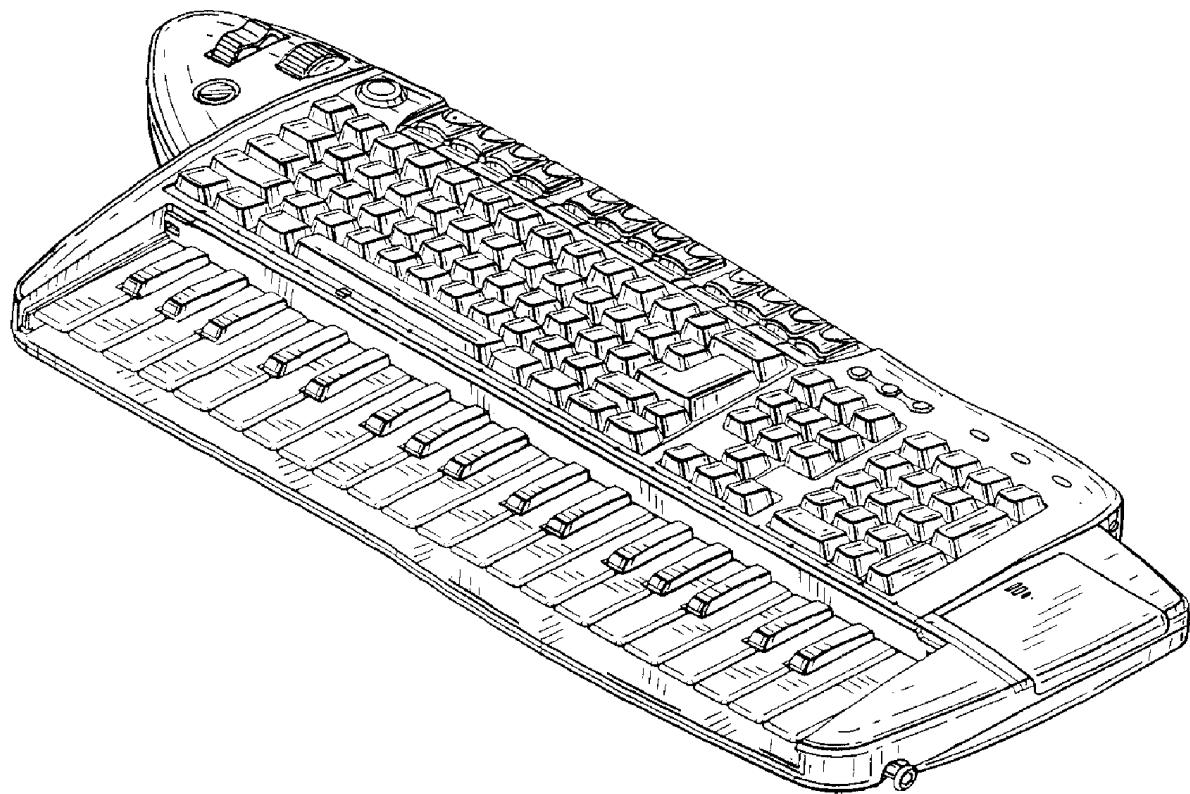


Fig. 341. Keyboard (USD466899)

U.S. Patent

Jul. 20, 1999

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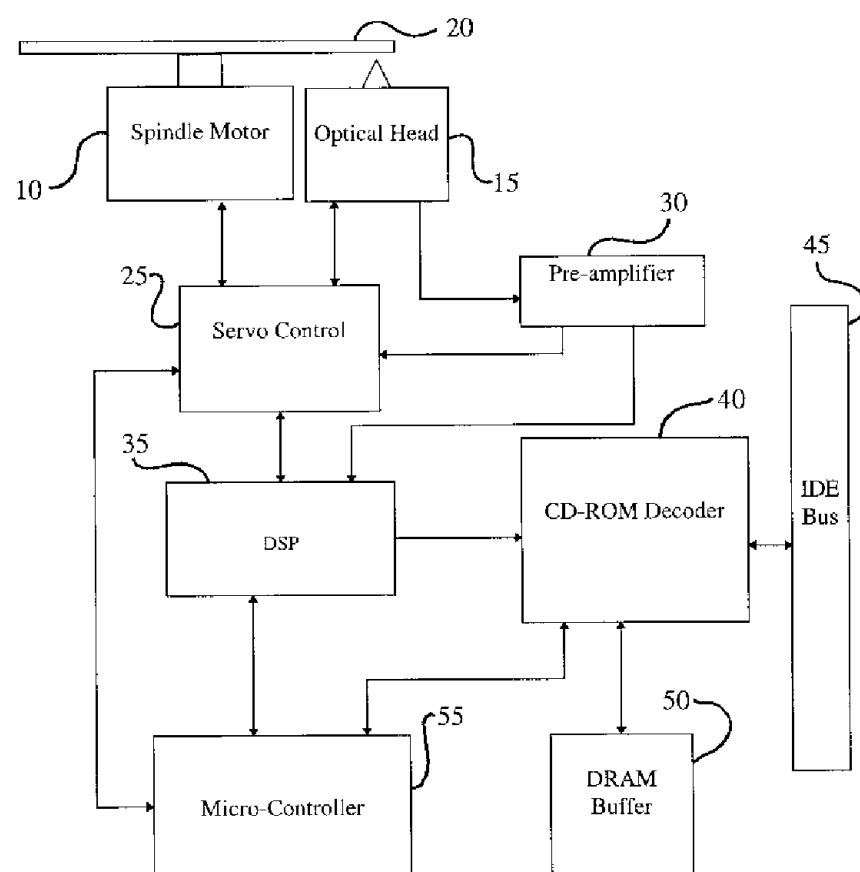
5,926,449**FIG. 1**

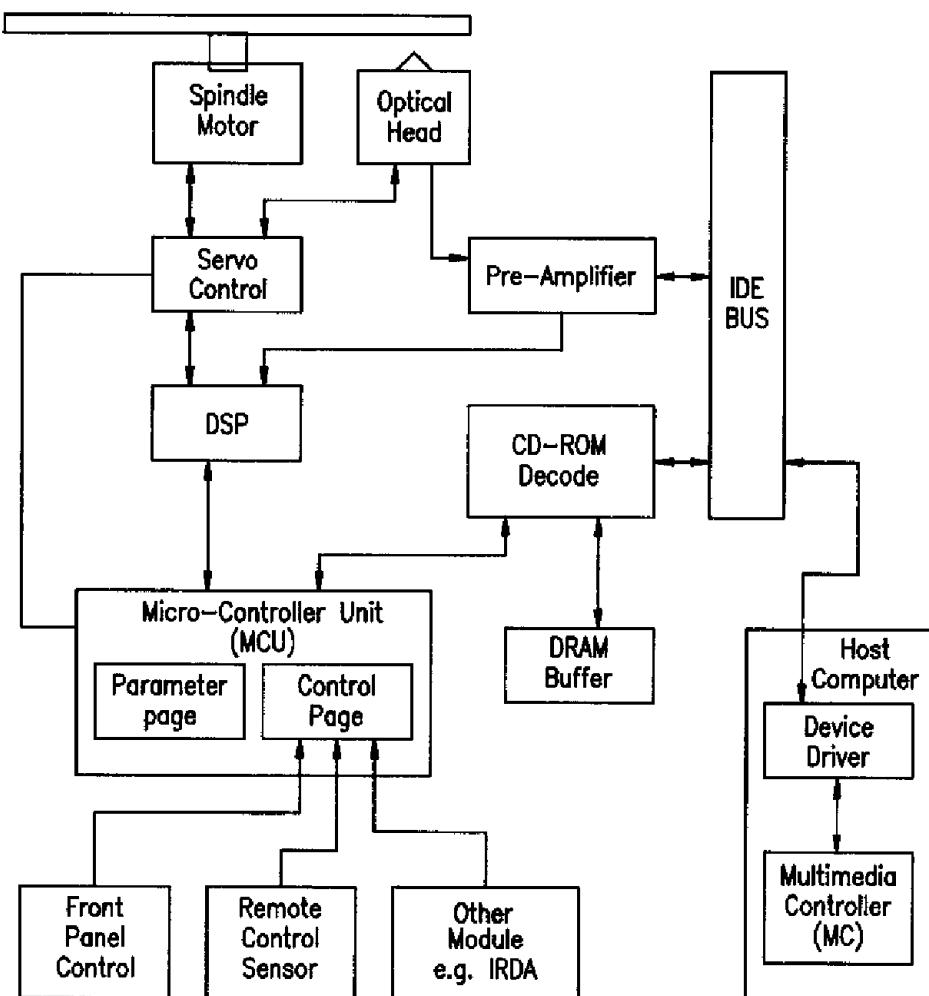
Fig. 342. Pre calibration system and method for CD ROM drive speed optimization (US5926449)

U.S. Patent

Mar. 14, 2000

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6,038,612



F / G . 7

Fig. 343. Method and system for facilitating IRDA support and integrated multimedia control for a CD ROM drive (US6038612)

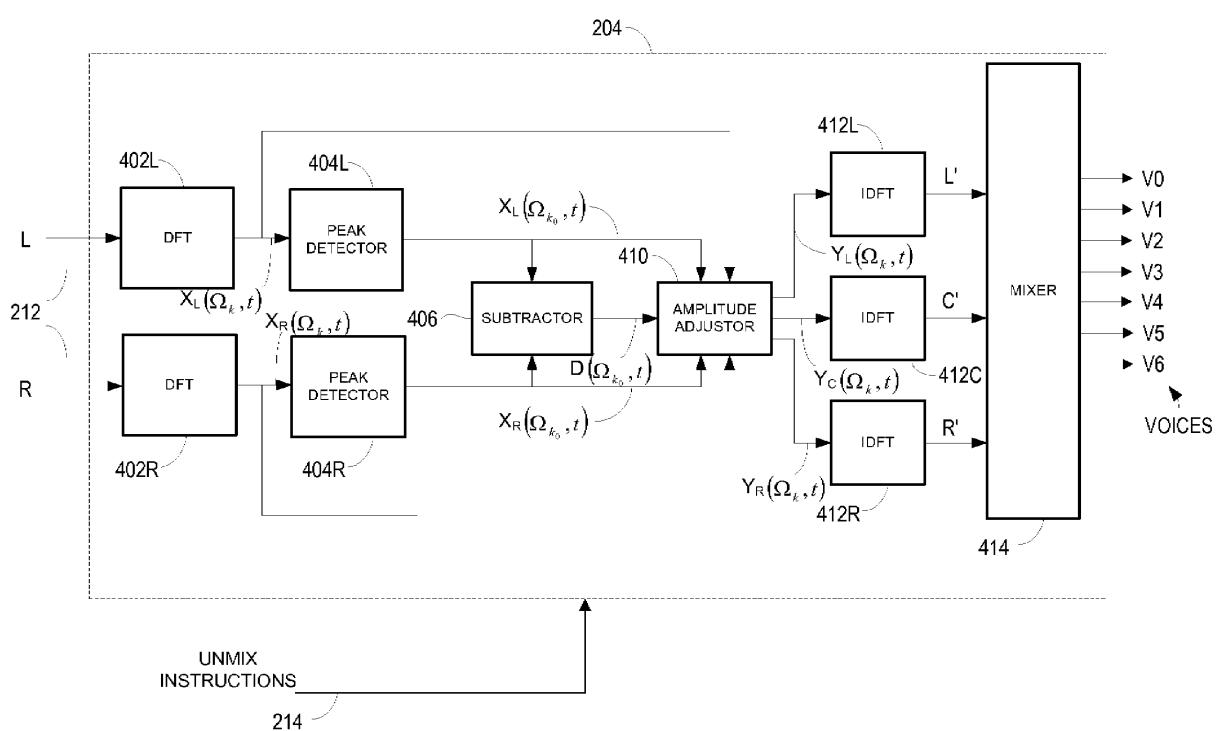


Fig. 344. Process for removing voice from stereo recordings (US8767969)

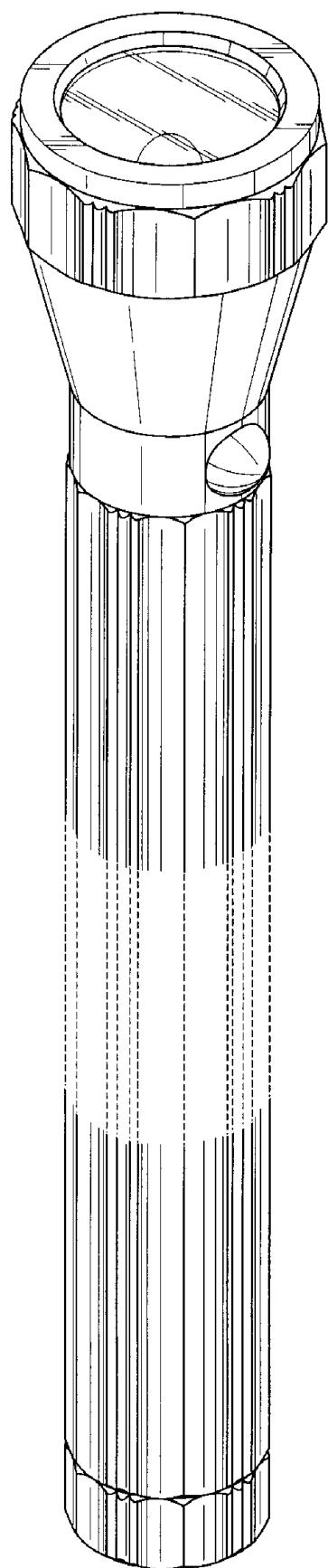


Fig. 345. Flashlight (USD451224)

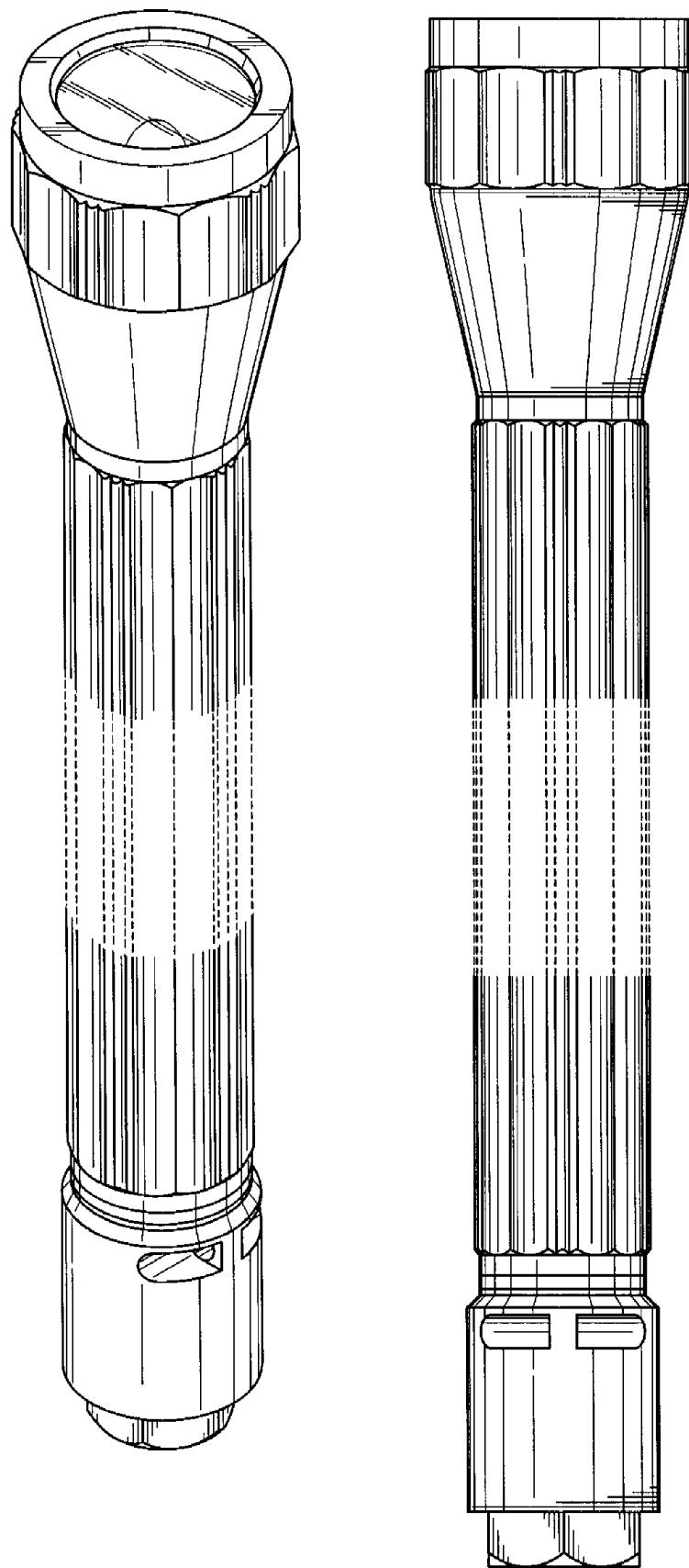


Fig. 346. Flashlight (USD450870)

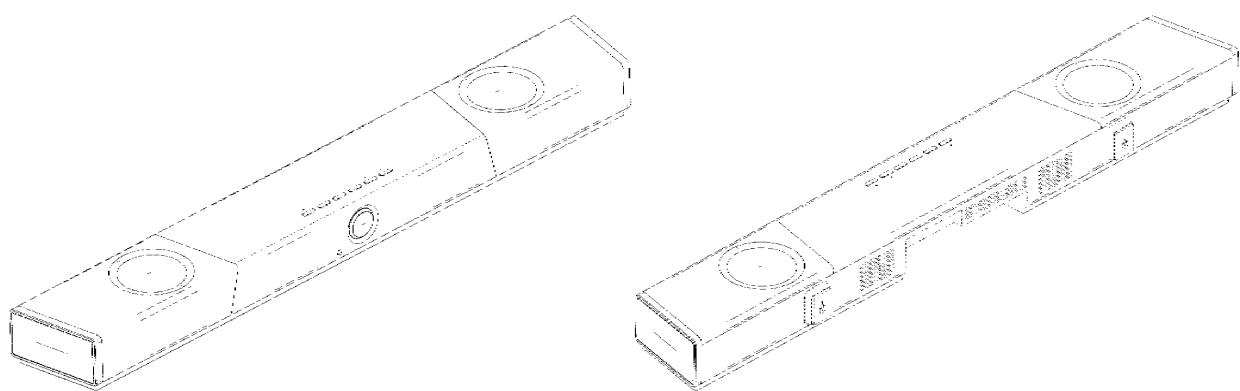


Fig. 347. Sound device (USD912012)

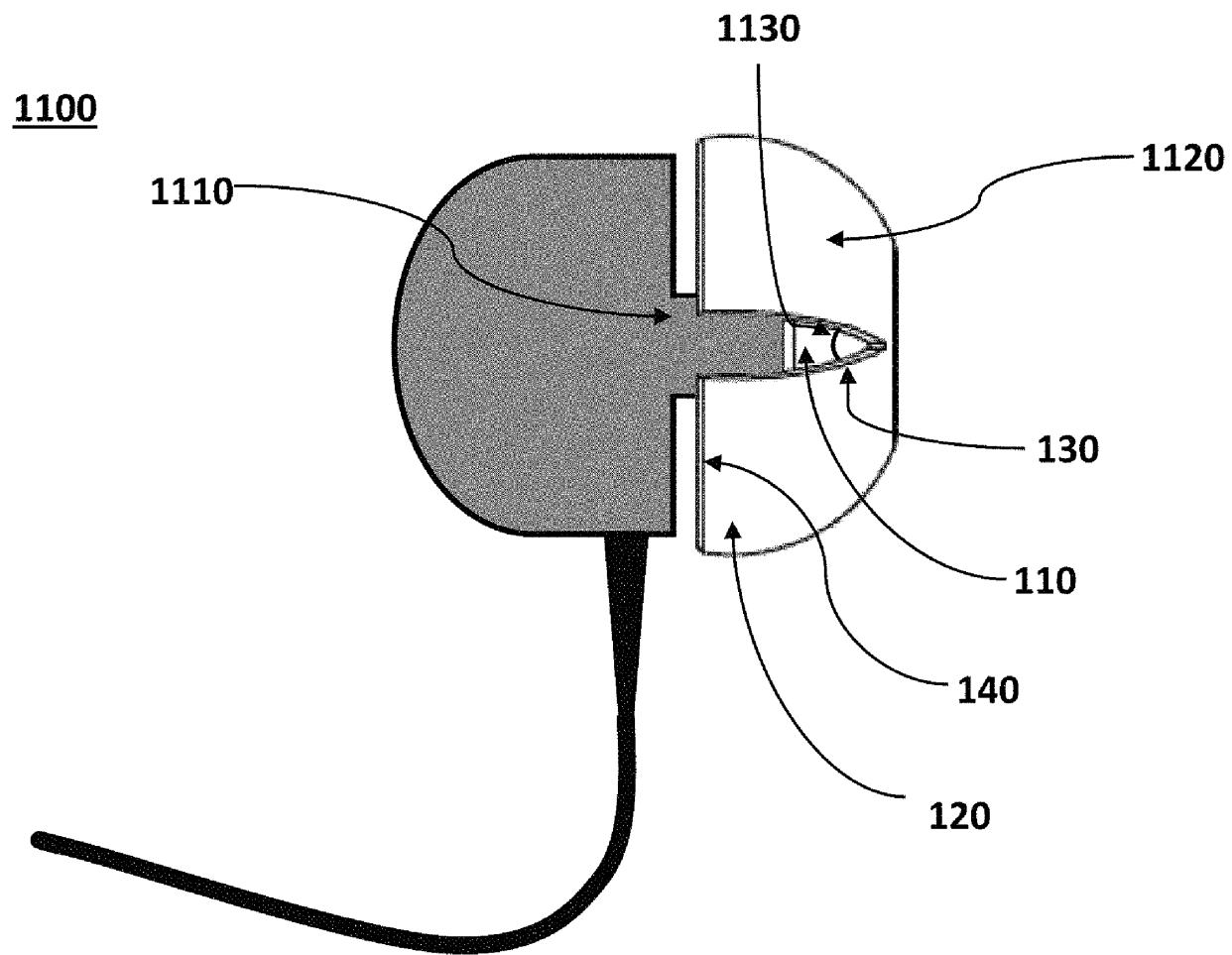


Fig. 348. Ear tip with wedge shaped apertures and earpiece with the same (US11089399)

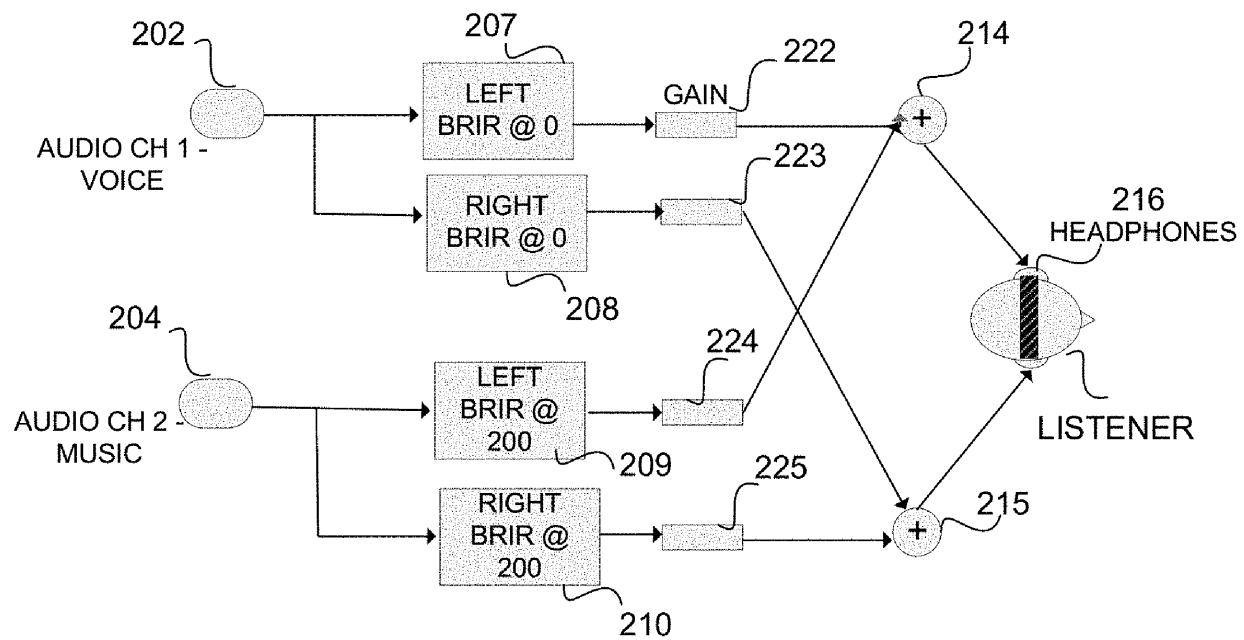


Fig. 349. Spatial repositioning of multiple audio streams (US2021219089)

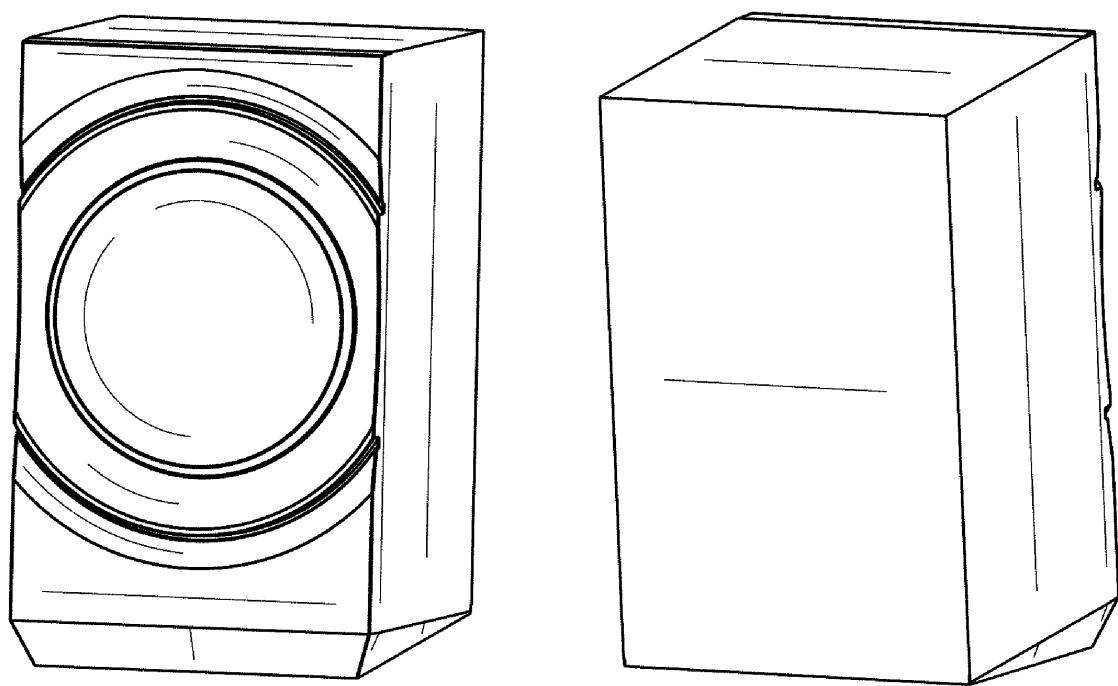


Fig. 350. Sound device (USD832237)

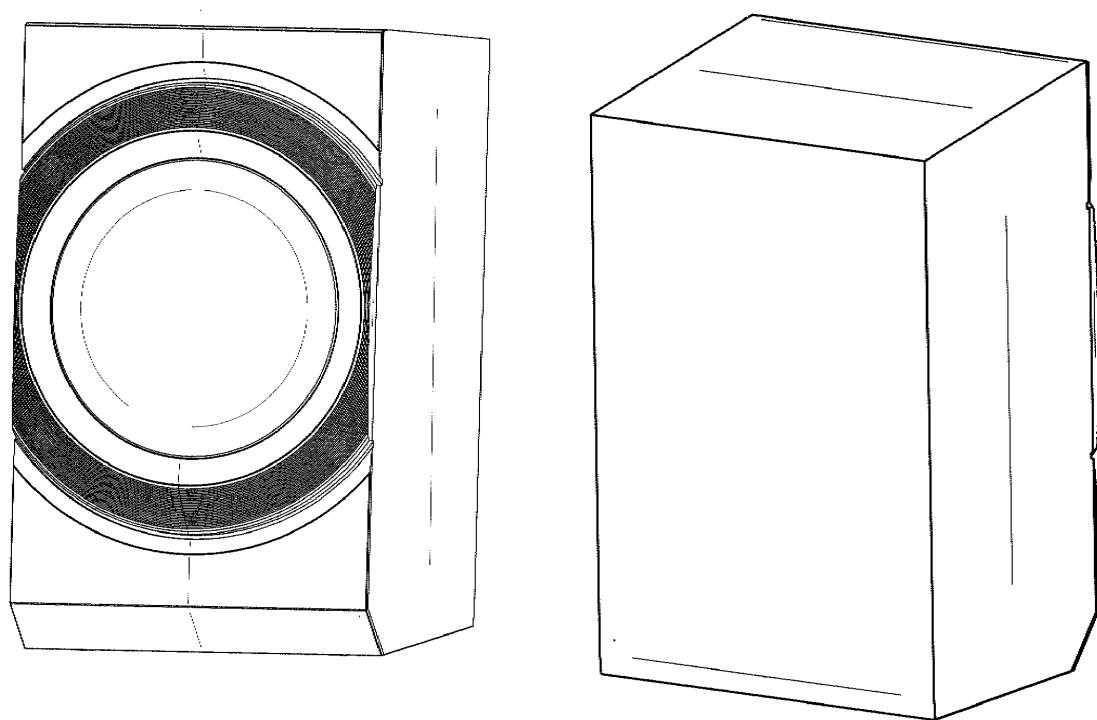


Fig. 351. Sound device (USD831613)

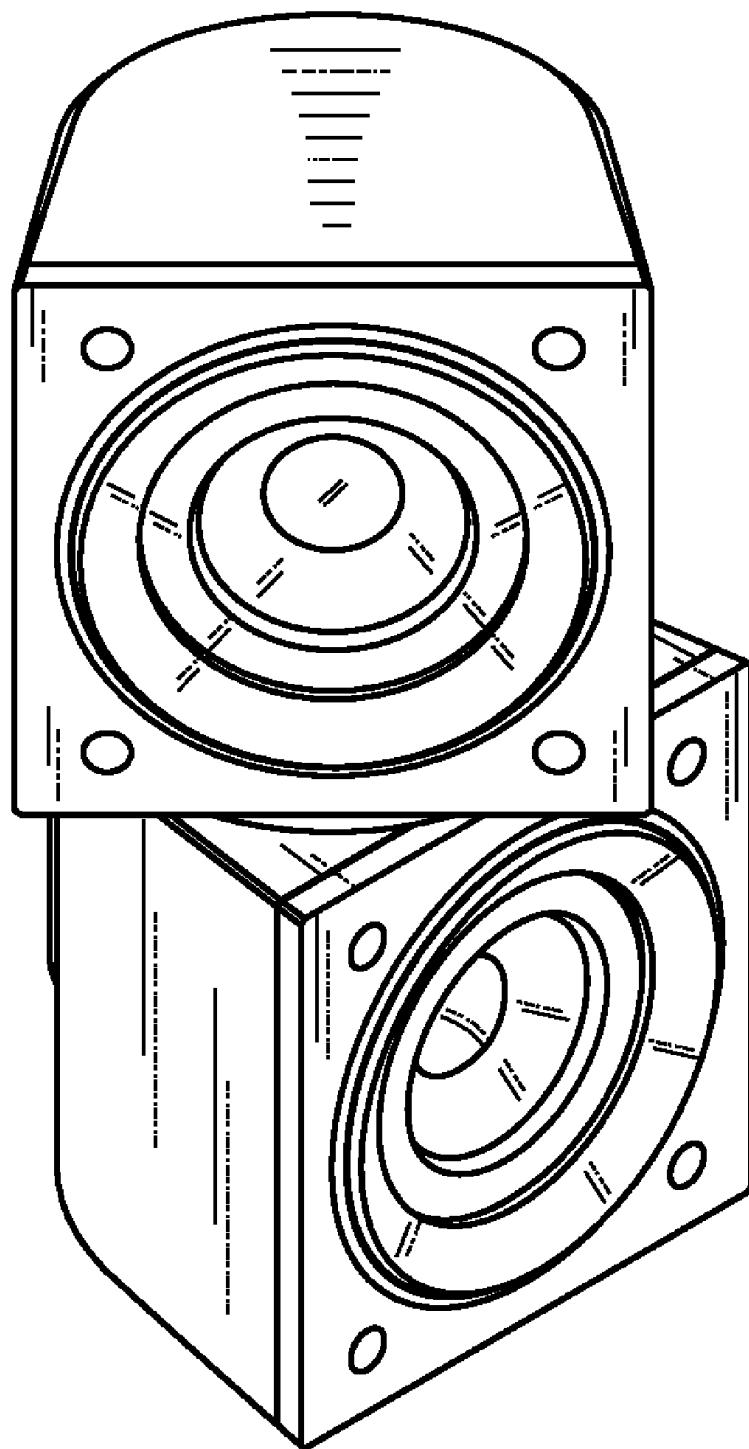


Fig. 352. Speaker (USD643021)

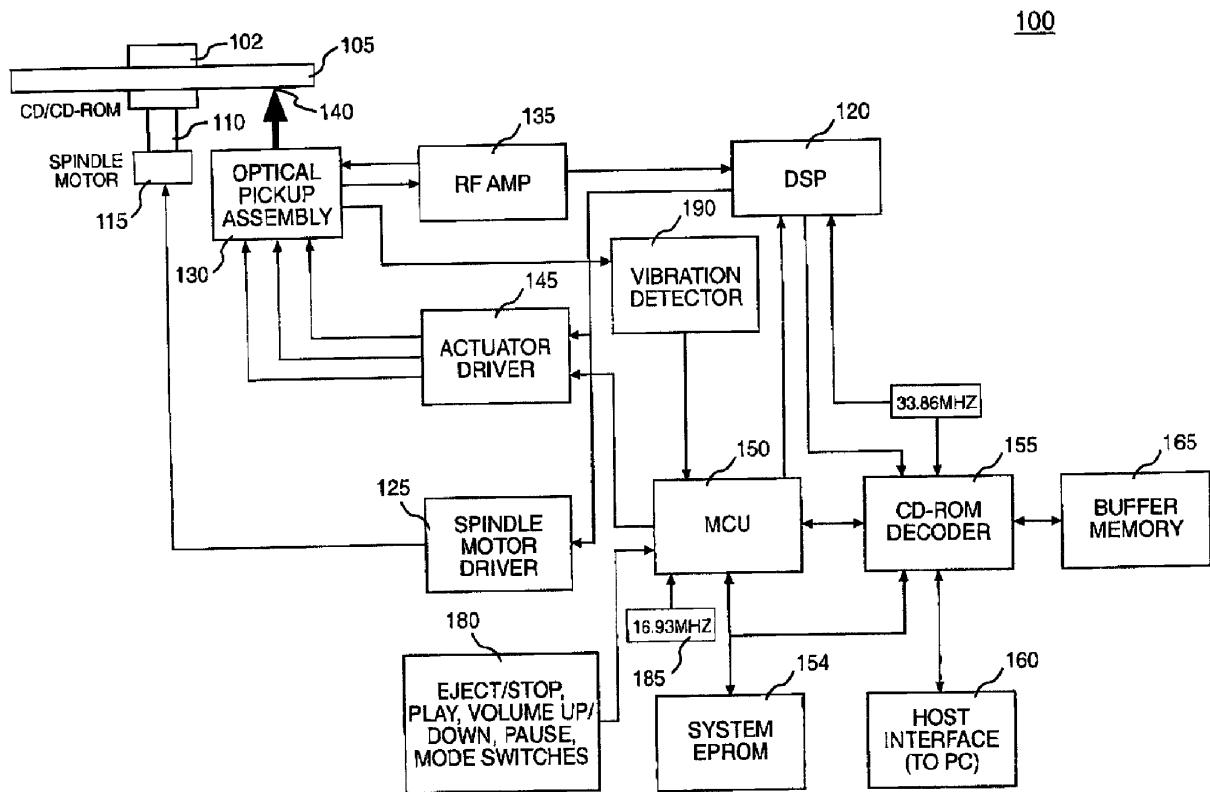


Fig. 353. Method for detecting vibration in a disc drive and apparatus therefor (US6424606)

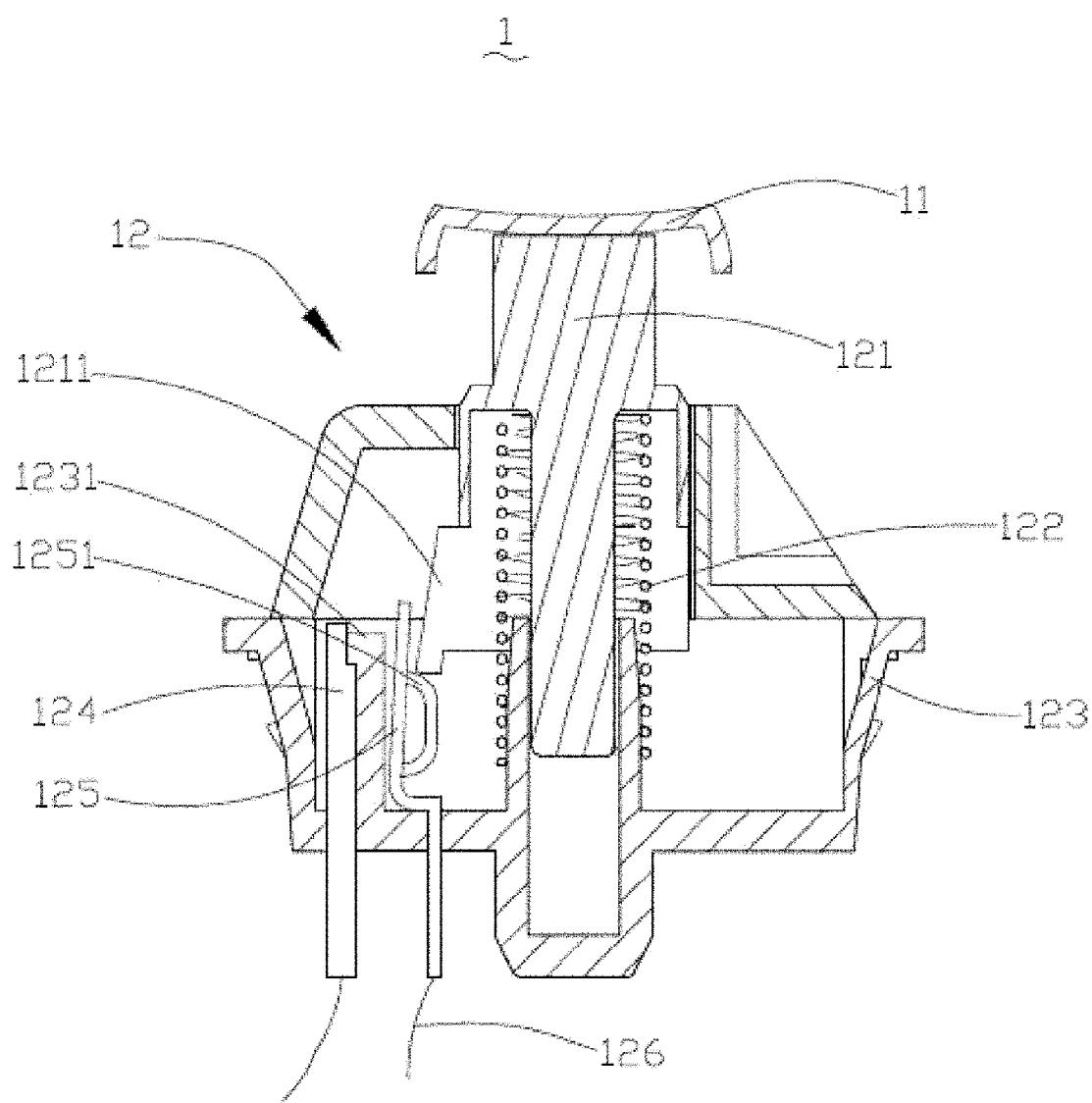


Fig. 354. Input device and input operation method thereof (US10312909)

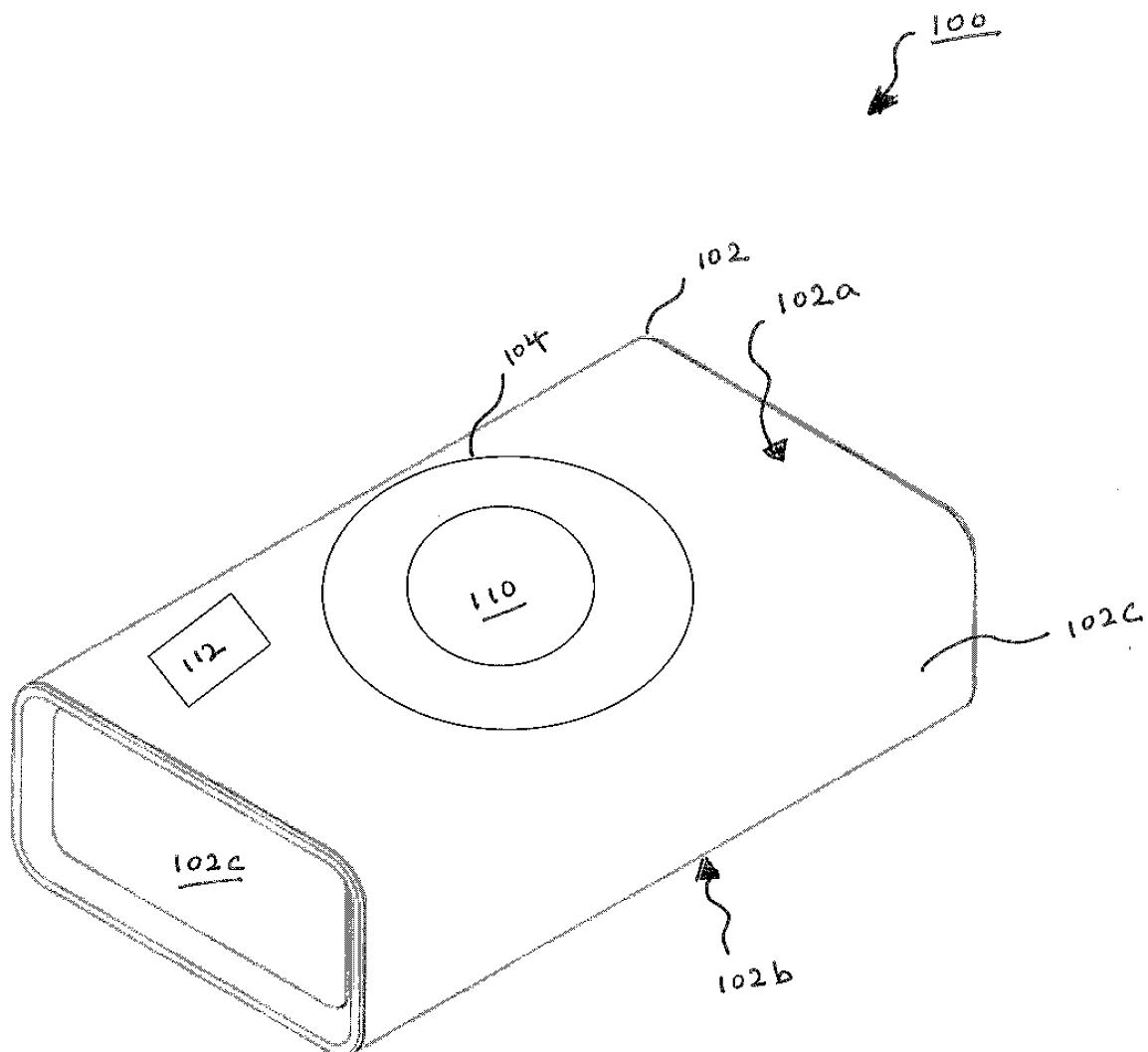


Fig. 355. Electronic device and a heatsink arrangement associated therewith (US2016007120)

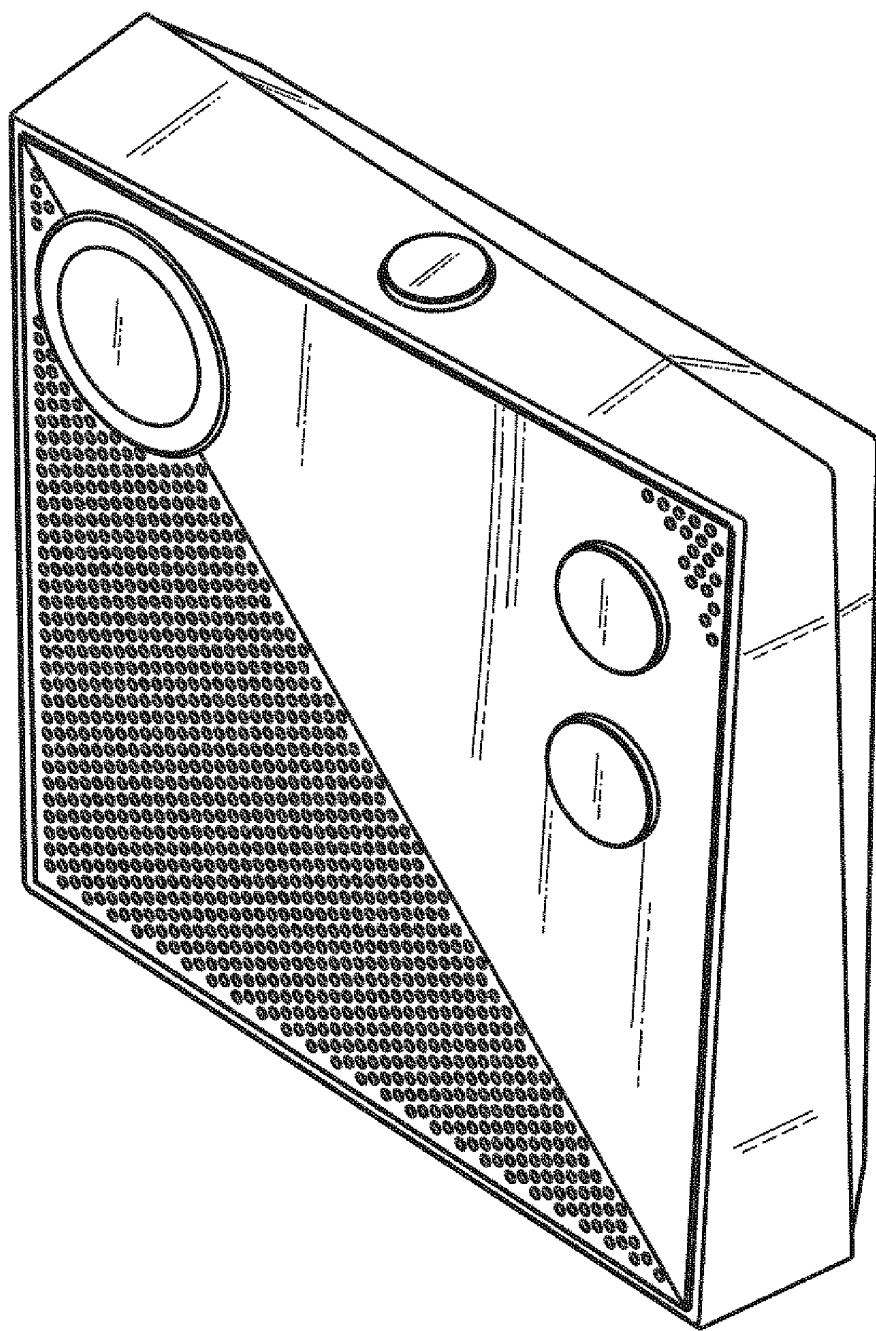


Fig. 356. Apparatus for communications (USD649146)

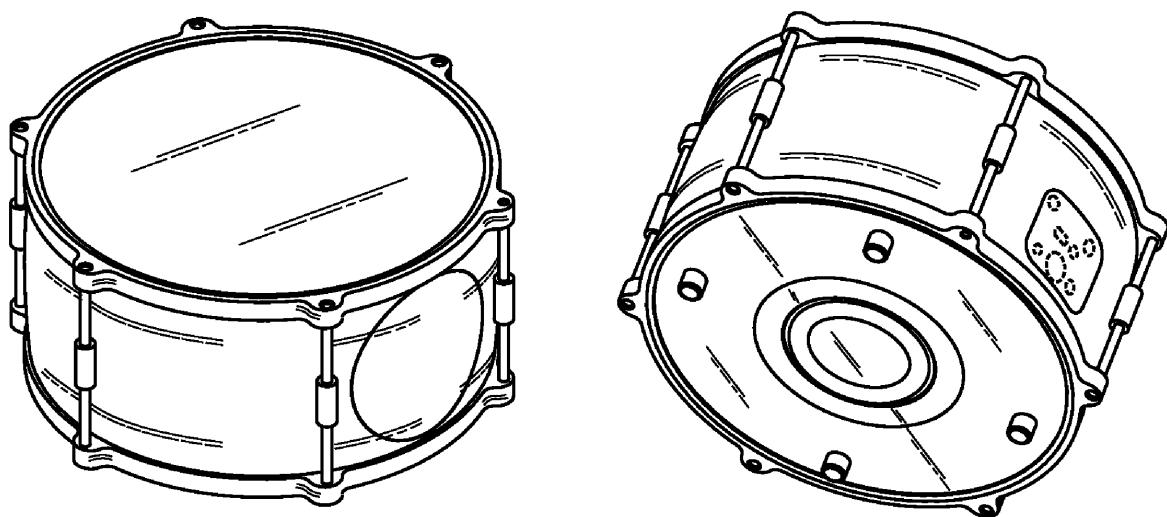


Fig. 357. Loudspeaker (USD622702)

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Des. 417,023

FIG. 1

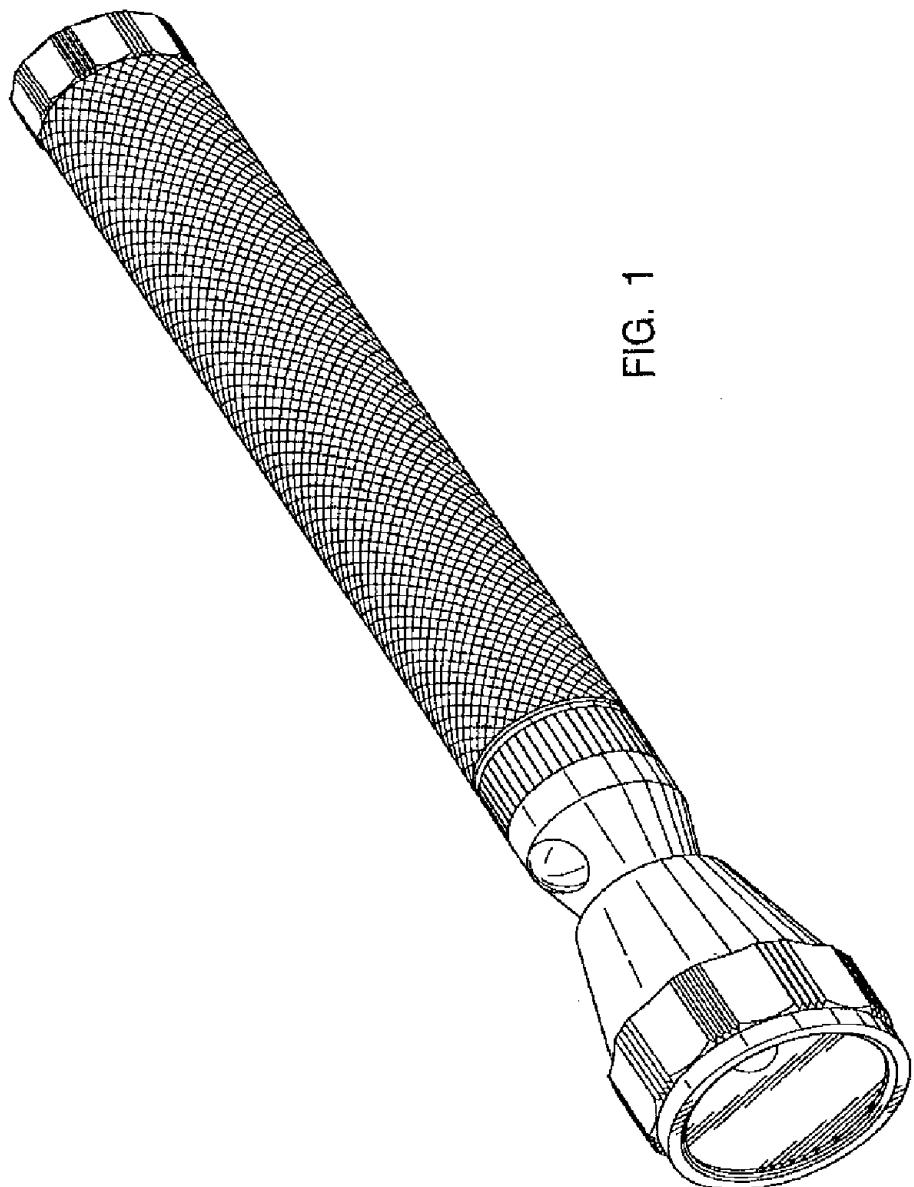


Fig. 358. Flashlight (USD417023)

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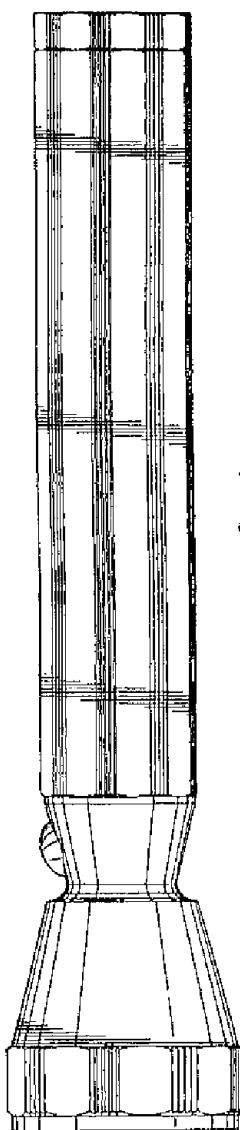
Des. 418,932

FIG. 4

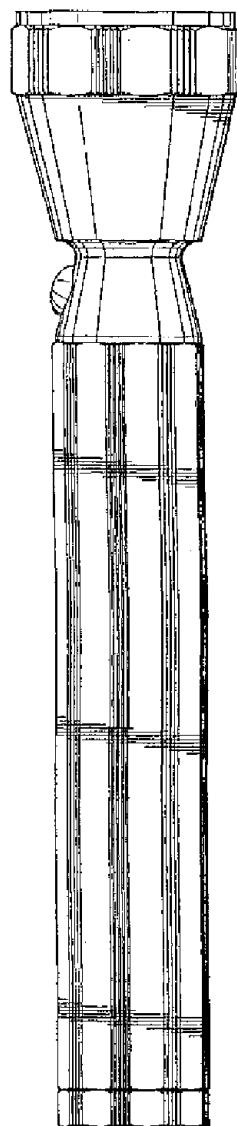


FIG. 5

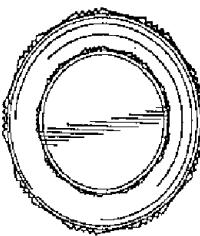
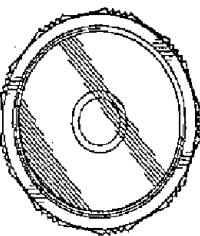


FIG. 6

FIG. 7



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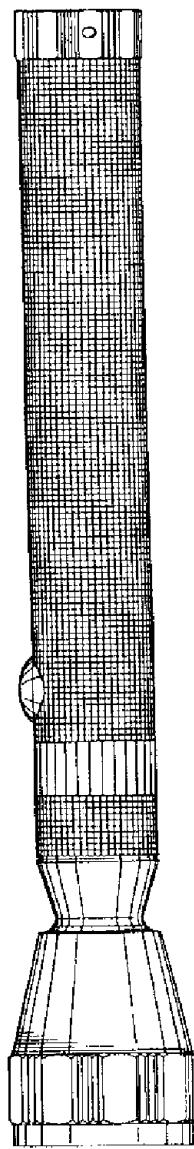
Des. 418,933

FIG. 4

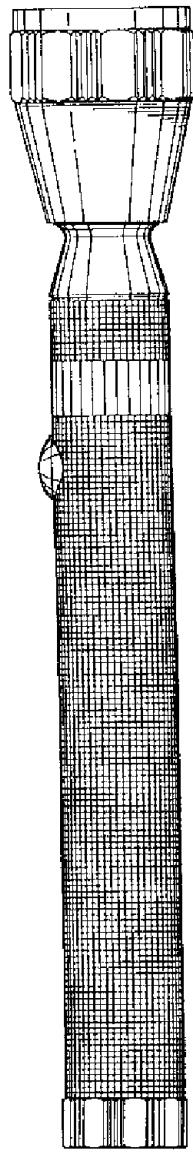


FIG. 5

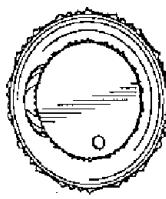


FIG. 6

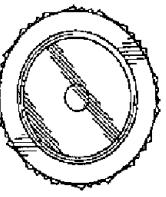


FIG. 7