



US00D864917S

(12) **United States Design Patent**
Wakasa et al.

(10) **Patent No.:** **US D864,917 S**

(45) **Date of Patent:** **** Oct. 29, 2019**

- (54) **SPEAKER FOR AUTOMOBILE**
- (71) Applicant: **PIONEER CORPORATION**, Tokyo (JP)
- (72) Inventors: **Chie Wakasa**, Tokyo (JP); **Meiji Kitamura**, Tokyo (JP)
- (73) Assignee: **PIONEER CORPORATION**, Tokyo (JP)
- (**) Term: **15 Years**

- 2,231,479 A * 2/1941 Perry H04R 7/122
181/163
- 2,496,589 A * 2/1950 Marquis H04R 1/24
367/175
- 2,551,447 A * 5/1951 Marquis H04R 9/025
381/412

(Continued)

FOREIGN PATENT DOCUMENTS

- JP 1329064 S 5/2008
- JP 1329109 S 5/2008

(Continued)

OTHER PUBLICATIONS

Pioneer Catalog published in 2016, Audio AV 2017 Car Entertainment Dealer Reference Guide vol. 1, pp. 74, 75, 78, 79, 82, 83, 88, 89.

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Drinker Biddle & Reath LLP

- (21) Appl. No.: **29/638,428**
- (22) Filed: **Feb. 27, 2018**
- (30) **Foreign Application Priority Data**
Sep. 12, 2017 (JP) 2017-019860
- (51) **LOC (12) CL.** **14-01**
- (52) **U.S. CL.**
USPC **D14/222; D14/216**
- (58) **Field of Classification Search**
USPC D14/216, 215, 222, 221; 181/144-148, 181/156, 170, 173, 141, 182, 396, 186; 381/380, 381, 421, 423, 426, 427, 397, 381/186, 182, 412, 386; 455/90.3, 575.1, 455/569.1
CPC ... H04R 9/06; H04R 9/04; H04R 1/00; H04R 1/24; H04R 25/00; H04R 25/02; H04R 1/02; H04R 9/025; H05K 5/00
See application file for complete search history.

(57) **CLAIM**

The ornamental design for the speaker for automobile, as shown and described.

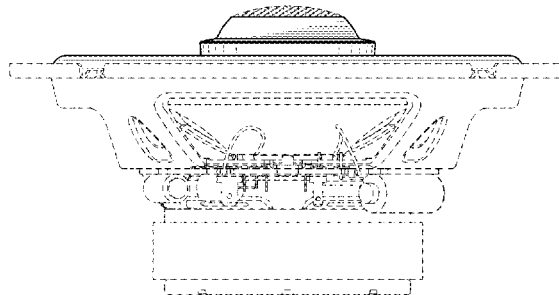
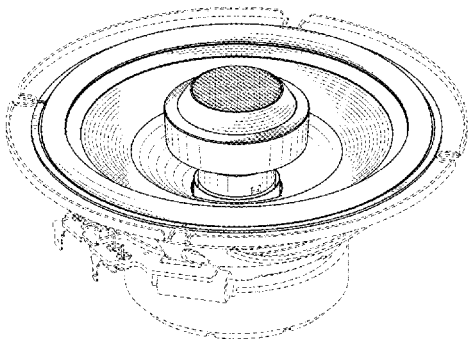
DESCRIPTION

FIG. 1 is a perspective view of a speaker for automobile showing our new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a left side view thereof; FIG. 6 is a top view thereof; and, FIG. 7 is a bottom view thereof.

The broken line showing of the speaker for automobile is included for the purpose of illustrating portions of the speaker for automobile and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets

- (56) **References Cited**
U.S. PATENT DOCUMENTS
1,742,832 A * 1/1930 Thomas H04R 1/00
369/222
2,070,977 A * 2/1937 Quinnell H04R 9/04
381/189
2,091,011 A * 8/1937 Phelps H04R 1/021
296/1.07



(56)

References Cited

U.S. PATENT DOCUMENTS

2,563,452 A * 8/1951 Bozak H04R 9/06
 381/392
 2,753,009 A * 7/1956 Shaffer H04R 1/021
 181/150
 2,819,773 A * 1/1958 Lowell H04R 1/345
 181/175
 D188,542 S * 8/1960 Levy D14/216
 D197,716 S * 3/1964 Boldt D14/216
 3,188,374 A * 6/1965 Schotter H04R 1/025
 181/175
 3,201,529 A * 8/1965 Surh H04R 9/025
 181/163
 3,230,319 A * 1/1966 Kliewer H04R 7/122
 181/137
 3,236,958 A * 2/1966 Cohen H04R 7/10
 381/404
 3,240,882 A * 3/1966 Eichler H04R 9/06
 335/231
 3,581,015 A * 5/1971 Masuda H04R 1/222
 381/177
 D225,069 S * 11/1972 May D14/216
 3,925,626 A * 12/1975 Stallings, Jr. H04R 1/021
 381/430
 3,939,942 A * 2/1976 Gore G10K 13/00
 181/157
 D250,586 S * 12/1978 Nussdorfer D14/216
 4,220,832 A * 9/1980 Nagel H04R 1/24
 381/182
 4,277,653 A * 7/1981 Pawelzick H04R 1/025
 181/150
 4,292,679 A * 9/1981 Kondo F16C 11/00
 181/171
 4,297,537 A * 10/1981 Babb H04R 1/023
 381/189
 4,313,040 A * 1/1982 Tsukamoto H04R 7/10
 381/425
 D270,909 S * 10/1983 Iijima D14/216
 4,439,643 A * 3/1984 Schweizer H04R 1/021
 181/153
 4,492,826 A * 1/1985 Chiu H04R 1/24
 181/144
 4,508,941 A * 4/1985 Wiggins G01P 3/46
 381/405
 4,552,242 A * 11/1985 Kashiwabara H04R 1/24
 181/144
 4,554,414 A * 11/1985 House H04R 23/02
 181/144
 D289,041 S * 3/1987 Bittencourt D14/216
 4,815,558 A * 3/1989 Krainhofer H04R 1/025
 181/141
 4,853,966 A * 8/1989 Skrzycki H04R 1/025
 381/395

D320,020 S * 9/1991 Iwano D14/216
 5,143,169 A * 9/1992 Ziegenberg H04R 7/02
 181/144
 5,153,915 A * 10/1992 Farella H04R 1/025
 181/150
 5,193,119 A * 3/1993 Tontini H04R 1/24
 381/182
 5,303,209 A * 4/1994 Frasl H04R 9/02
 181/160
 5,319,164 A * 6/1994 Shen H04R 1/025
 181/150
 5,323,469 A * 6/1994 Scholz H04R 7/24
 381/403
 D360,886 S * 8/1995 Hall D14/216
 5,512,714 A * 4/1996 Fenton H04R 1/24
 181/144
 5,568,562 A * 10/1996 Huang H04R 1/24
 381/182
 5,625,701 A * 4/1997 Scanlan H04R 7/16
 381/403
 D393,641 S * 4/1998 Hai-Fu D14/216
 5,739,480 A * 4/1998 Lin H04R 1/24
 181/144
 D400,884 S * 11/1998 Christie, II D14/216
 D432,118 S * 10/2000 Honnert D14/216
 6,516,076 B1 * 2/2003 Marlin G10K 11/004
 181/159
 D480,709 S * 10/2003 Proni D14/216
 6,647,124 B1 * 11/2003 Peng H04R 1/24
 381/412
 D521,982 S * 5/2006 Schafernak D14/216
 D529,899 S * 10/2006 Amada D14/221
 8,175,320 B2 * 5/2012 Lin H04R 9/025
 381/401
 D705,193 S * 5/2014 Yoon D14/185
 D723,010 S * 2/2015 Moon D14/222
 9,036,839 B2 * 5/2015 Zhao H04R 9/04
 381/182
 9,253,576 B2 * 2/2016 Tripp H04R 9/04
 D810,050 S * 2/2018 Uemoto D14/216
 D837,181 S * 1/2019 Kitamura D14/204
 D839,235 S * 1/2019 Kitamura D14/204
 2005/0271236 A1 * 12/2005 Kobayashi H04R 1/24
 381/396
 2007/0023423 A1 * 2/2007 Suzuki H04R 31/003
 219/633

FOREIGN PATENT DOCUMENTS

JP 1348907 S 1/2009
 JP 1396787 S 9/2010
 JP 1450113 S 9/2012
 JP 1518778 S 3/2015

* cited by examiner

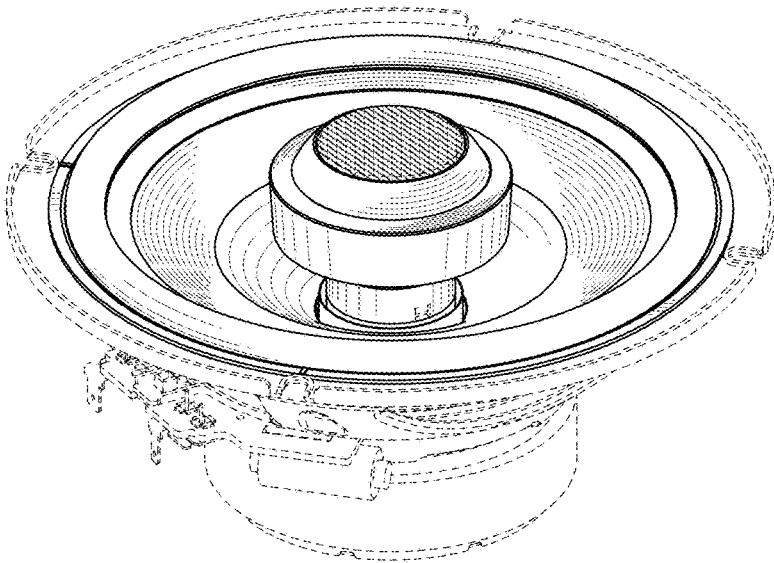


FIG. 1

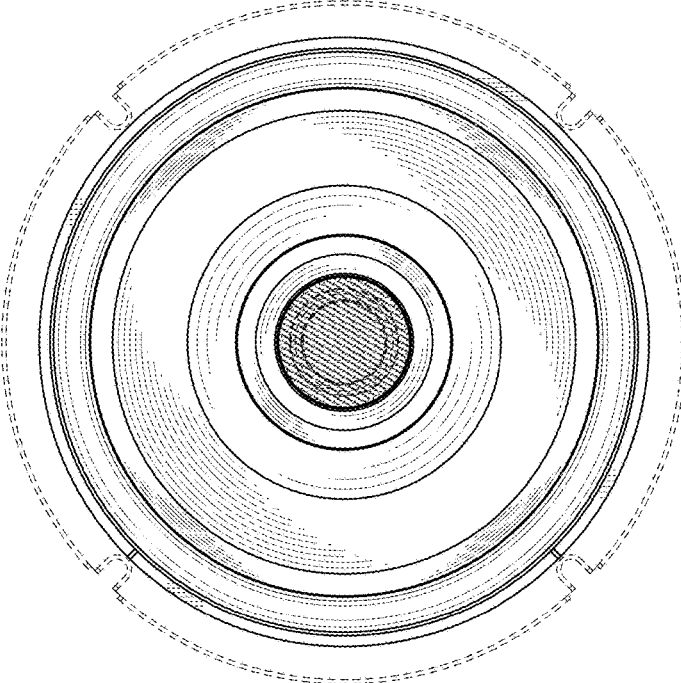


FIG. 2

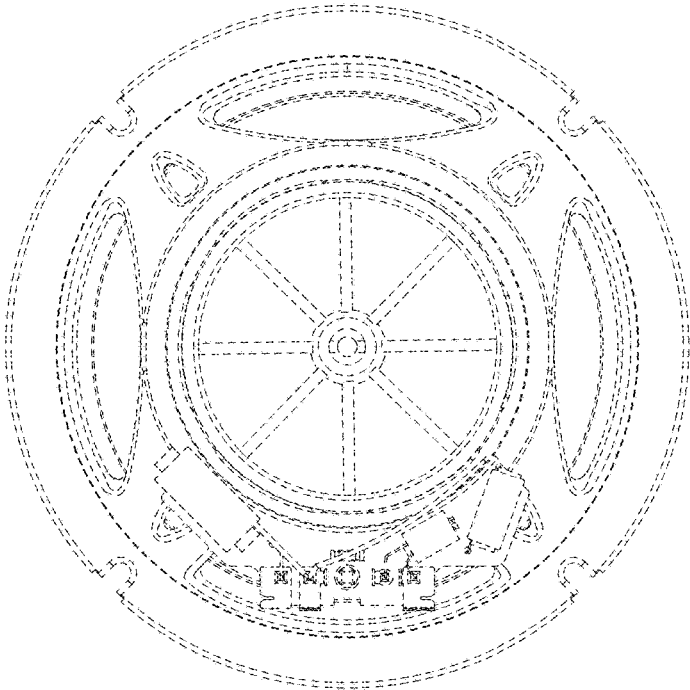


FIG. 3

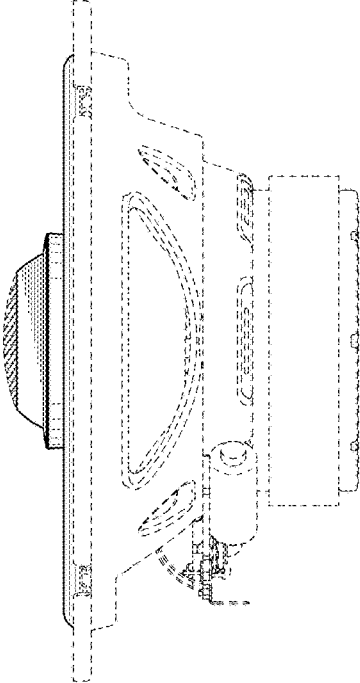


FIG. 4

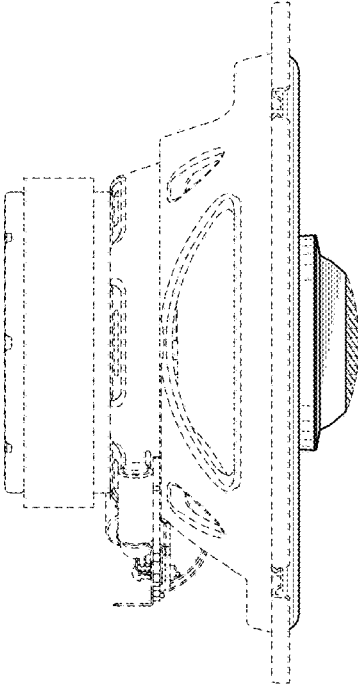


FIG. 5

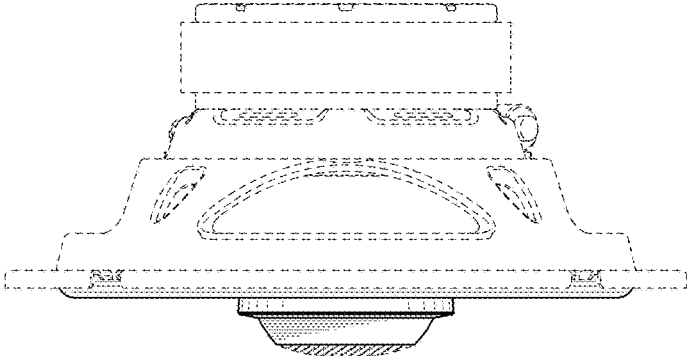


FIG. 6

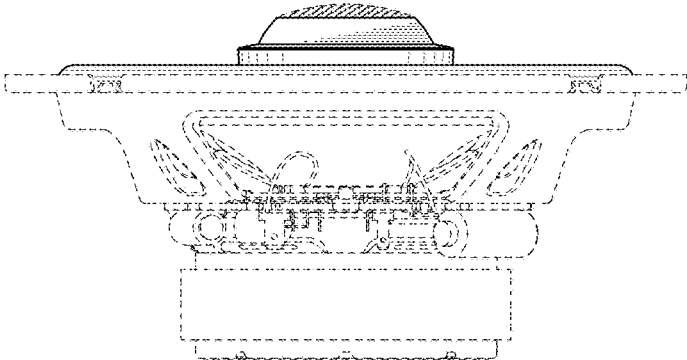


FIG. 7