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Takami et al.

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(54) **SOUND TO VIBRATION CONVERTER**

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(52) **U.S. Cl.**
USPC **D14/223**; D14/205

(58) **Field of Classification Search**

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181/135; 379/430, 431; 381/380,
381/381.374, 72; 455/90.3, 575.1, 569.1
CPC H04R 1/10; H04R 25/00; H04R 1/1016;
H04R 1/1066; H05K 5/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D223,097 S * 3/1972 Krumin et al. D14/191
D280,896 S * 10/1985 Campbell D14/155
5,081,709 A * 1/1992 Benyo A45F 5/02
224/669
D326,655 S * 6/1992 Iribe D14/192
D344,800 S * 3/1994 Lamby D24/174
5,414,596 A * 5/1995 Eaton H01M 2/1005
361/814

5,748,454 A * 5/1998 Nichols A45F 5/02
24/3.11
6,188,881 B1 * 2/2001 Braxton H04B 1/385
340/7.55
D450,337 S * 11/2001 Hamamura D13/168
D455,405 S * 4/2002 Bonn D13/158
6,438,248 B1 * 8/2002 Kamimura H04M 1/05
381/374
D517,052 S * 3/2006 Skulley D14/223
7,079,664 B2 * 7/2006 Nassimi H04R 25/558
381/328
D538,271 S * 3/2007 Kim D14/223
D555,151 S * 11/2007 Eklund D14/223
D558,740 S * 1/2008 Jaakkola D14/223
D566,695 S * 4/2008 Rath D14/223
D567,216 S * 4/2008 Densho D14/205
D587,682 S * 3/2009 Miles D14/205
D590,371 S * 4/2009 Leinvuo D14/205
D603,378 S * 11/2009 Paradise D14/223
D605,168 S * 12/2009 Jaakkola D14/205
D608,767 S * 1/2010 Liner D14/205

(Continued)

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(57)

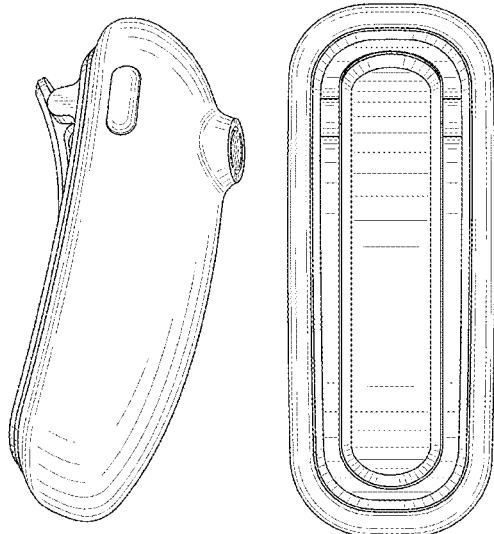
CLAIM

The ornamental design for a sound to vibration converter, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of front, bottom and left side of a sound to vibration converter showing our new design;
FIG. 2 is a perspective view of front, top and right side thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D609,695	S	*	2/2010	Cigliano	.....	D14/205
D611,935	S	*	3/2010	Wikel	.....	D14/223
D613,273	S	*	4/2010	Liner	.....	D14/223
D620,927	S	*	8/2010	Li	.....	D14/223
D624,904	S	*	10/2010	Lim	.....	D14/223
D635,125	S	*	3/2011	Nousiainen	.....	D14/223
D636,381	S	*	4/2011	Liner	.....	D14/223
D637,183	S	*	5/2011	March	.....	D14/223
D637,184	S	*	5/2011	March	.....	D14/223
D638,409	S	*	5/2011	Walter	.....	D14/223
D641,739	S	*	7/2011	Huang	.....	D14/223
D649,957	S	*	12/2011	Fahrendorff	.....	D14/223
D657,781	S	*	4/2012	Yang	.....	D14/223
D705,196	S	*	5/2014	Drambarean	.....	H04R 25/00 D14/205
D705,197	S	*	5/2014	Drambarean	.....	H04R 25/00 D14/223
D705,198	S	*	5/2014	Drambarean	.....	H04R 25/00 D14/223
D735,169	S	*	7/2015	Shieh	.....	D14/223
D738,864	S	*	9/2015	Lee	.....	D14/223
D794,614	S	*	8/2017	Xu	.....	D14/223
2008/0032737	A1	*	2/2008	Liu	.....	H04M 1/72522 455/556.1

* cited by examiner

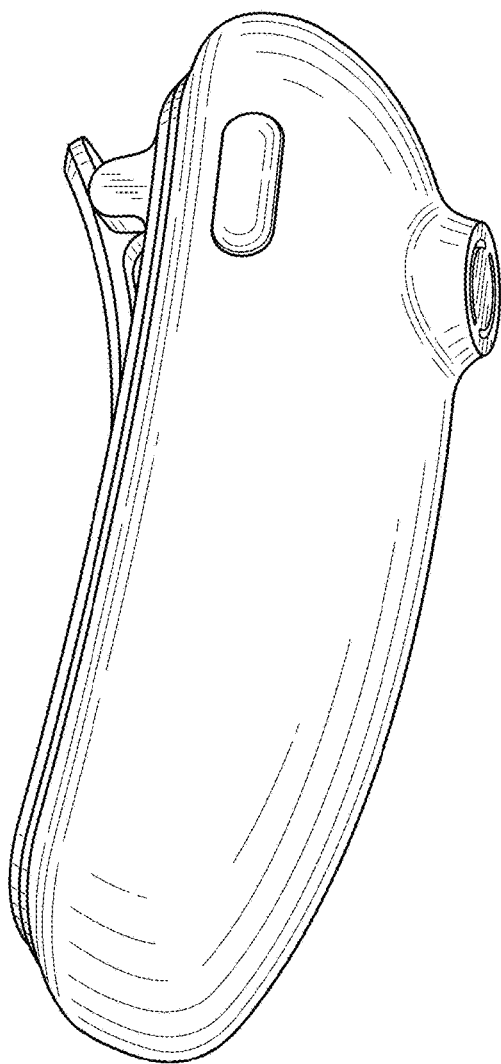


FIG. 1

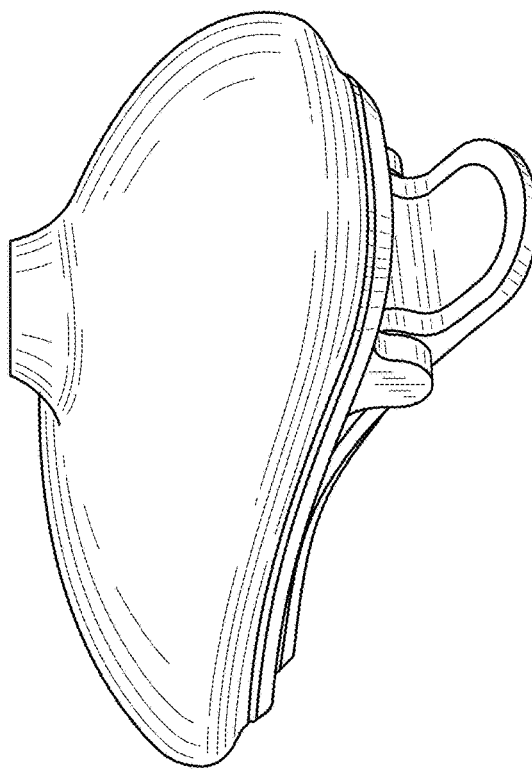


FIG. 2

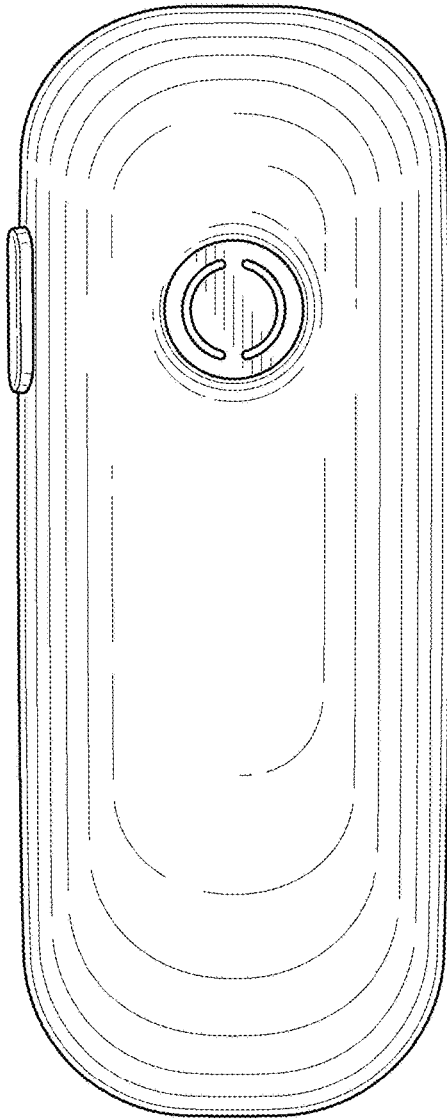


FIG. 3

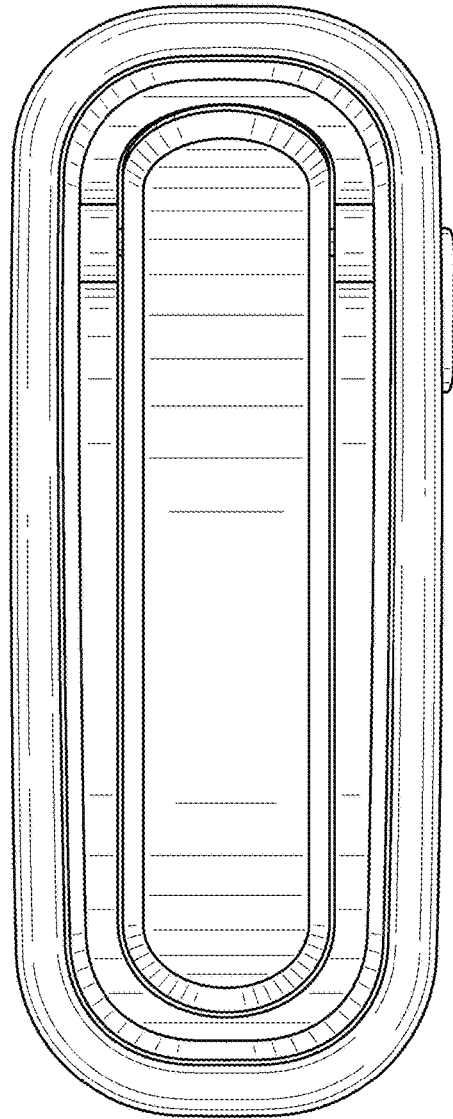


FIG. 4

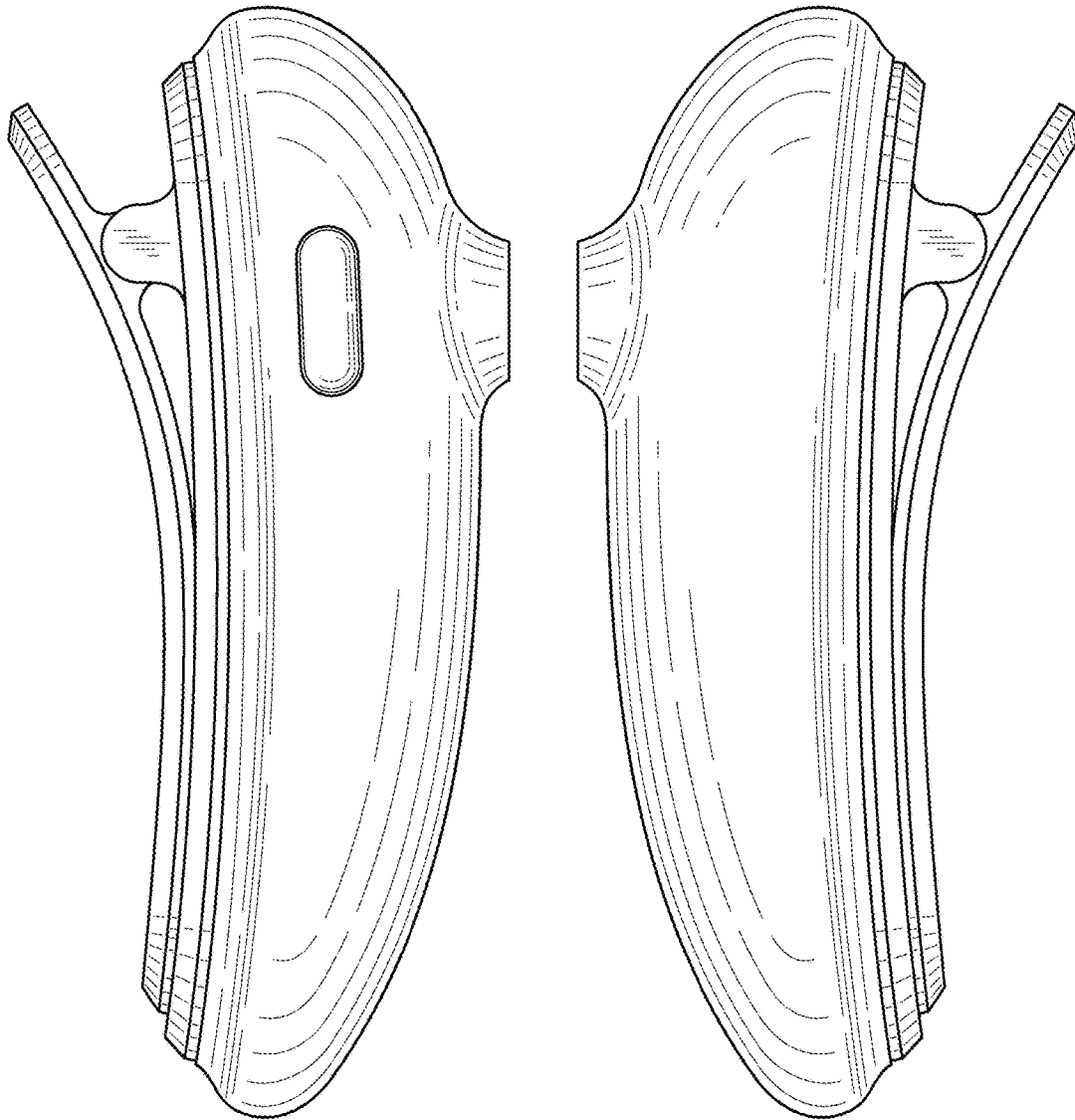


FIG. 5

FIG. 6

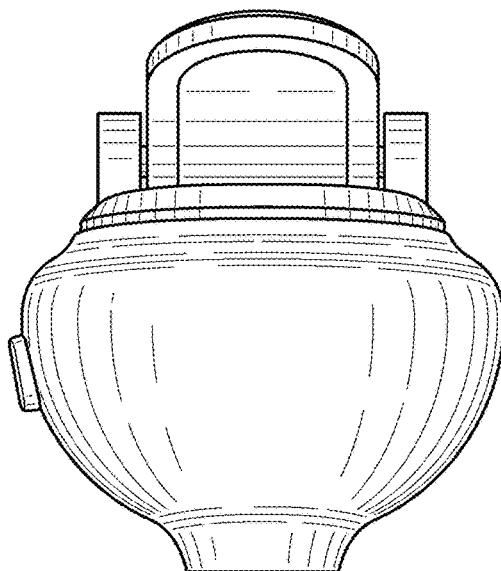


FIG. 7

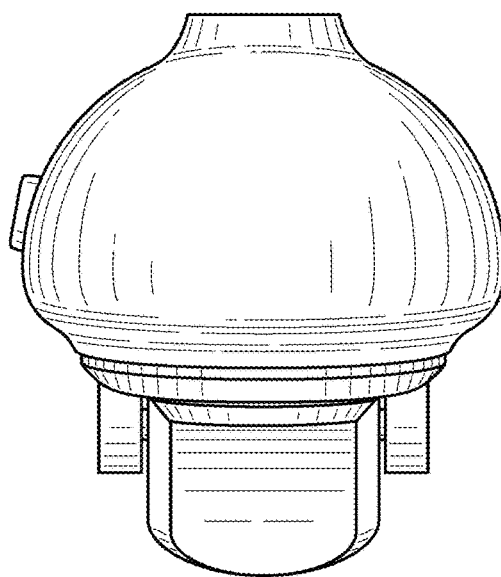


FIG. 8