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(12) United States Design Patent

Schoolcraft et al.

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(54) **PLUMBING FITTING**

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(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **14 Years**

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(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/255**

(58) **Field of Classification Search**
USPC D23/238–243, 255–257; 4/675–678; 137/801
CPC E03C 1/042
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

341,873	A	5/1886	Bayles
4,186,761	A	2/1980	Guarnieri
D278,270	S	4/1985	Niemann
D278,271	S	4/1985	Niemann
4,513,769	A	4/1985	Purcell
D279,598	S	7/1985	Rademacher
4,649,958	A	3/1987	Purcell
4,735,357	A	4/1988	Gregory et al.
4,762,273	A	8/1988	Gregory et al.
4,767,922	A	8/1988	Stauffer
D299,161	S	12/1988	Franttini
4,839,039	A	6/1989	Parsons et al.
4,894,874	A	1/1990	Wilson

(Continued)

FOREIGN PATENT DOCUMENTS

EP	0347527	12/1989
EP	1245741	10/2002

OTHER PUBLICATIONS

Moen Product Reference Guide, 2007.

(Continued)

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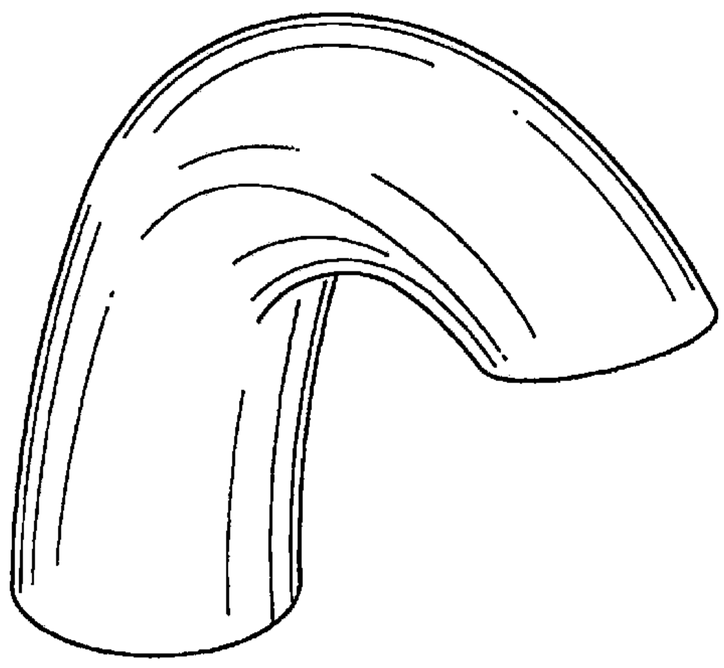
(57) **CLAIM**

The ornamental design for a plumbing fitting, as shown and described.

DESCRIPTION

FIG. **1** is a top, left, front perspective view of a plumbing fitting showing our new design;
FIG. **2** is a left side elevational view thereof, the right side elevational view thereof being a mirror image of the left side shown;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a rear elevational view thereof;
FIG. **5** is a top plan view thereof; and,
FIG. **6** is a bottom plan view thereof.
The broken line representations in the figures show unclaimed environment, and thus form no part of the claimed design.
The nature of this product is a plumbing fitting, such as a spout for a sensor activated faucet.

1 Claim, 3 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

4,953,236	A		9/1990	Lee et al.
D314,228	S		1/1991	Haug et al.
D315,786	S		3/1991	Pilolla et al.
5,025,516	A		6/1991	Wilson
5,131,428	A		7/1992	Bory
D329,688	S		9/1992	Yost
5,224,509	A		7/1993	Tanaka et al.
D339,853	S		9/1993	Higgins et al.
5,243,717	A		9/1993	Yasuo
D343,445	S		1/1994	Allen et al.
D344,575	S		2/1994	Hill et al.
D346,645	S		5/1994	Hill et al.
D347,466	S		5/1994	Kolada et al.
D348,510	S		7/1994	Gottwald
D349,755	S		8/1994	Altman
D349,756	S		8/1994	Altman
D349,757	S		8/1994	Altman
D353,876	S		12/1994	Delabie et al.
D356,631	S		3/1995	Kolada
D361,624	S		8/1995	Fabian
D361,826	S		8/1995	Mine
D362,899	S		10/1995	Jans
5,465,749	A		11/1995	Sauter et al.
D367,518	S		2/1996	Bavoso
D368,303	S		3/1996	Lobermeier
D369,651	S		5/1996	Saadi et al.
D371,827	S		7/1996	Jans
5,555,912	A		9/1996	Saadi et al.
D378,123	S		2/1997	Warshawsky
D379,849	S		6/1997	Hill et al.
D381,396	S		7/1997	Paterson et al.
D384,396	S		9/1997	Doughty
5,669,417	A		9/1997	Lian-Jie
5,694,653	A		12/1997	Harald
5,746,244	A		5/1998	Woolley et al.
5,803,120	A		9/1998	Bertoli
5,855,356	A		1/1999	Fait
D405,165	S		2/1999	Kolada
D406,880	S		3/1999	Doughty
D407,801	S		4/1999	Kolada
5,960,490	A		10/1999	Pitsch
D416,312	S		11/1999	Kolada
5,979,489	A		11/1999	Pitsch
5,984,262	A		11/1999	Parsons et al.
D421,642	S		3/2000	Ko
D423,650	S	*	4/2000	Fabian D23/255
D423,651	S		4/2000	Fabian
D424,169	S		5/2000	Snyder et al.
D425,970	S		5/2000	Milrud et al.
D427,666	S		7/2000	Wei et al.
6,082,407	A		7/2000	Paterson et al.
D431,285	S		9/2000	Paterson et al.
D434,477	S		11/2000	Meda
6,170,098	B1		1/2001	Pitsch
6,189,569	B1		2/2001	Calhoun
6,202,980	B1		3/2001	Vincent et al.
D441,847	S		5/2001	Oliver
D446,843	S	*	8/2001	Martinez D23/255
D447,219	S		8/2001	Donath et al.
D448,452	S		9/2001	Pitsch et al.
6,294,786	B1		9/2001	Marcichow et al.
6,301,727	B1		10/2001	Bertrand et al.
6,321,785	B1		11/2001	Bergmann
6,334,226	B1		1/2002	Tokunaga et al.
6,360,770	B1		3/2002	Buchner et al.
6,370,712	B1		4/2002	Burns et al.
6,385,798	B1		5/2002	Burns et al.
D460,524	S		7/2002	Green et al.
D461,542	S		8/2002	Shieh
D461,543	S		8/2002	Müllenmeister
D461,879	S		8/2002	Müllenmeister
D463,015	S		9/2002	Chang
D463,846	S		10/2002	Ko
D464,113	S		10/2002	Lord et al.
D464,121	S	*	10/2002	Storti et al. D23/257
D464,398	S		10/2002	Spangler et al.
D465,007	S		10/2002	Spangler et al.
D465,554	S		11/2002	Spangler et al.
D465,556	S		11/2002	Ouyoung
D466,196	S		11/2002	Otero et al.
D469,518	S		1/2003	Bates et al.
D470,925	S		2/2003	Blomstrom
6,513,787	B1		2/2003	Jeromson et al.
6,517,720	B1		2/2003	Aldred et al.
D471,962	S		3/2003	Spangler et al.
D472,609	S		4/2003	Marshall
D473,928	S		4/2003	Lord et al.
D477,054	S		7/2003	Schönherr et al.
D480,784	S		10/2003	Hunt
6,631,730	B1		10/2003	Bloom et al.
6,691,340	B2		2/2004	Honda et al.
D487,500	S		3/2004	Blattner
D487,923	S		3/2004	Fraser et al.
D488,540	S		4/2004	Ouyoung
D490,880	S		6/2004	Lin
D491,633	S		6/2004	Ouyoung
D491,637	S		6/2004	Lin
D491,638	S		6/2004	Lin
6,817,379	B2		11/2004	Perla et al.
6,918,400	B2		7/2005	Buchner et al.
D510,978	S		10/2005	Kulig
D511,201	S		11/2005	Kulig et al.
D511,562	S		11/2005	Ouyoung
D511,817	S		11/2005	Ouyoung
D512,132	S		11/2005	Spangler
D514,667	S		2/2006	Kemp
7,003,818	B2		2/2006	McNerney et al.
D517,659	S		3/2006	Ouyoung
D517,663	S	*	3/2006	Wolf D23/255
D518,877	S		4/2006	Kulig
D524,424	S		7/2006	Schaffeld et al.
D526,699	S		8/2006	Kulig
7,082,966	B2		8/2006	Kuo
7,083,156	B2		8/2006	Jost et al.
D529,584	S		10/2006	Buschmann
D530,394	S	*	10/2006	Paterson et al. D23/238
D530,397	S		10/2006	Buschmann
D530,787	S		10/2006	Yoshioka et al.
D536,425	S		2/2007	VanMarcke
7,174,577	B2		2/2007	Jost et al.
7,174,581	B2		2/2007	McNerney
D541,907	S		5/2007	Qing
7,228,874	B2		6/2007	Bolderheij et al.
7,232,111	B2		6/2007	McDaniel et al.
7,415,991	B2		8/2008	Meehan et al.
D580,021	S		11/2008	Chu et al.
D582,516	S		12/2008	Lobermeier et al.
D582,517	S		12/2008	Lobermeier et al.
D589,119	S		3/2009	Oh
7,537,195	B2		5/2009	McDaniel et al.
D606,631	S		12/2009	Jones et al.
7,631,372	B2		12/2009	Marty et al.
D607,977	S		1/2010	Lin
7,647,939	B2		1/2010	Lin
7,650,653	B2		1/2010	Johnson et al.
7,690,395	B2		4/2010	Jonte et al.
D617,876	S		6/2010	Williams et al.
7,735,519	B2		6/2010	Lin
D620,083	S		7/2010	Zhang
D624,630	S		9/2010	Matsuura et al.
7,828,013	B2		11/2010	Lin
7,871,057	B2		1/2011	Shimizu et al.
D636,851	S		4/2011	Yu
D637,271	S		5/2011	Lin
7,956,480	B2		6/2011	Onodera et al.
D642,240	S	*	7/2011	Flowers et al. D23/255
7,992,590	B2		8/2011	Meehan et al.
D646,758	S		10/2011	Gessi
8,046,850	B2		11/2011	Chang
8,051,507	B2		11/2011	Lin
8,104,512	B2		1/2012	Nelson et al.
D657,025	S		4/2012	Slotower et al.
D657,439	S		4/2012	Lammel et al.
8,185,984	B2		5/2012	Meehan et al.

(56) **References Cited**

U.S. PATENT DOCUMENTS

8,220,492	B2	7/2012	Lin
2003/0093857	A1	5/2003	Paterson et al.
2005/0133100	A1	6/2005	Bolderheij
2006/0085908	A1	4/2006	Daly
2006/0237072	A1	10/2006	Lee
2007/0204925	A1	9/2007	Bolderheij et al.
2008/0093572	A1	4/2008	Wu
2008/0099089	A1	5/2008	Yang
2008/0196159	A1	8/2008	Lee
2008/0289697	A1	11/2008	Lin
2009/0078325	A1	3/2009	Lin
2009/0188995	A1	7/2009	Onodera et al.
2009/0272445	A1	11/2009	Shimizu et al.
2010/0275359	A1	11/2010	Guler et al.
2011/0133105	A1	6/2011	Simon
2011/0272938	A1	11/2011	Lin

OTHER PUBLICATIONS

Moen M-Pact Valve—Illustrated Parts, Sep. 2010.
Moen Valve—Illustrated Parts, Aug. 2008.
Moen M-Pact Common Valve System, http://pro.moen.com/about/mpact.
Moen Sensor Products, http://pro.moen.com/search?search_scope=0&search_terms=sensor.
Partial International Search Report for related Application No. PCT/US2013/067555, dated Feb. 5, 2014.
IKOOL Faucets, http://ikool.com.tw/products.php?ma=Survex.

* cited by examiner

FIG. 1

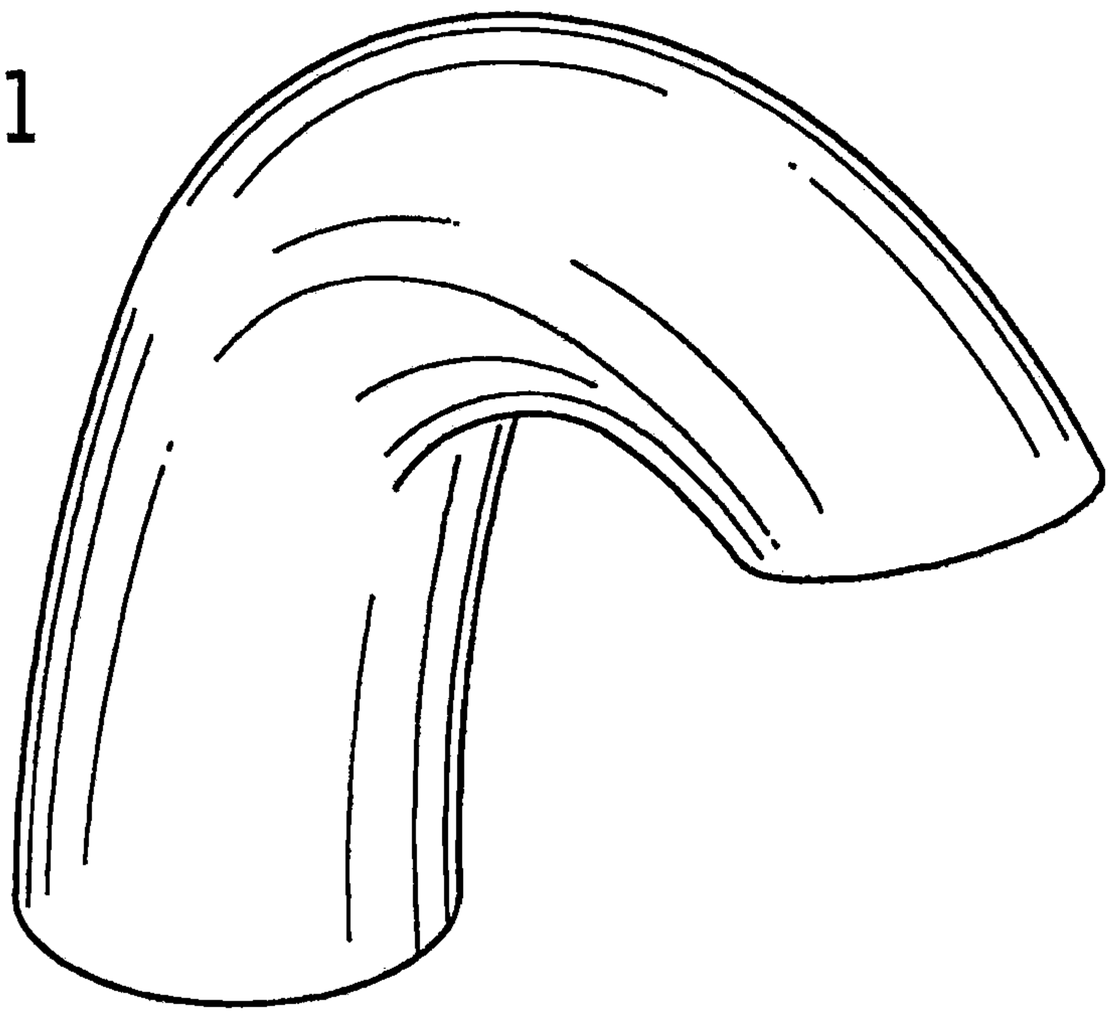
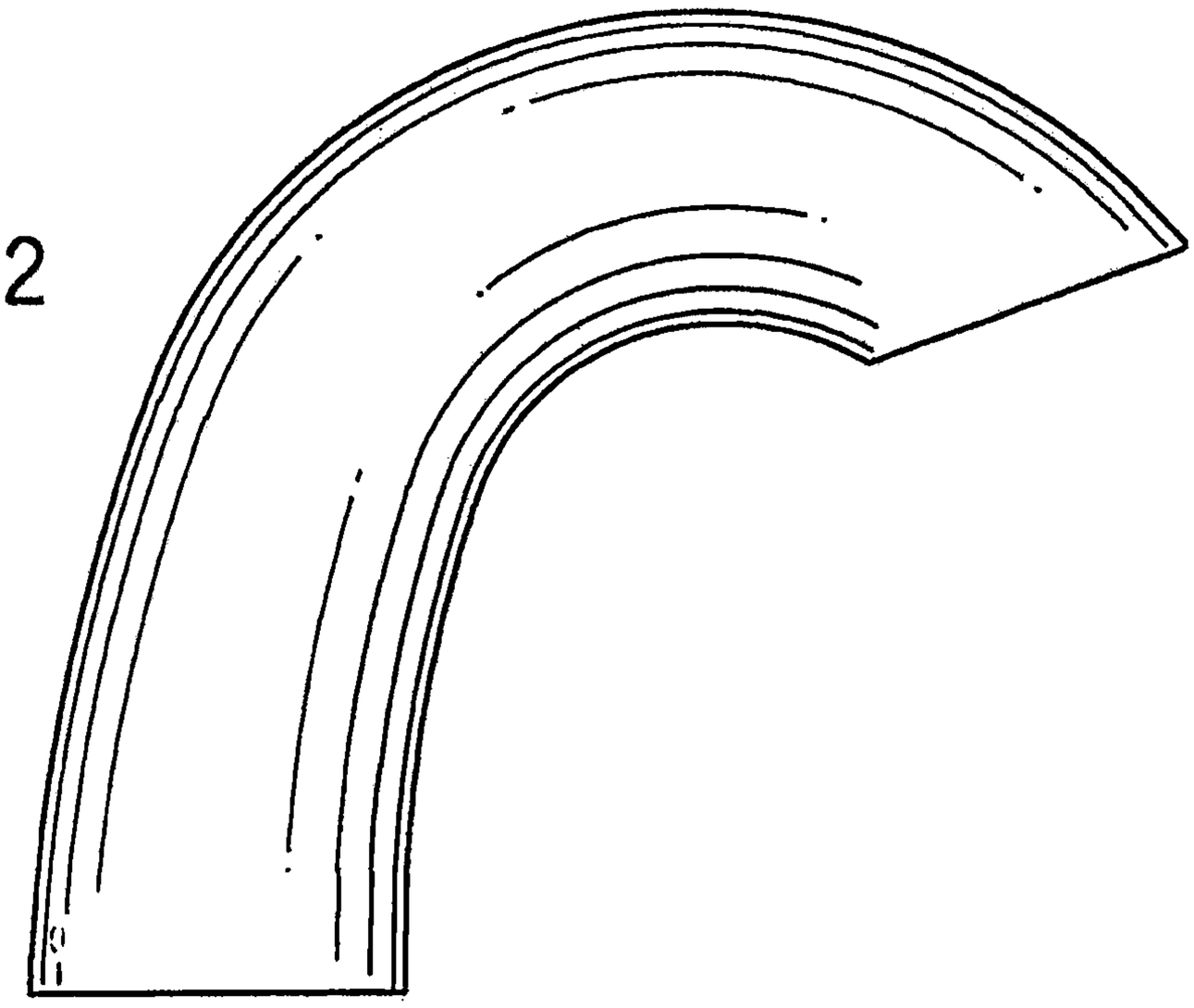


FIG. 2



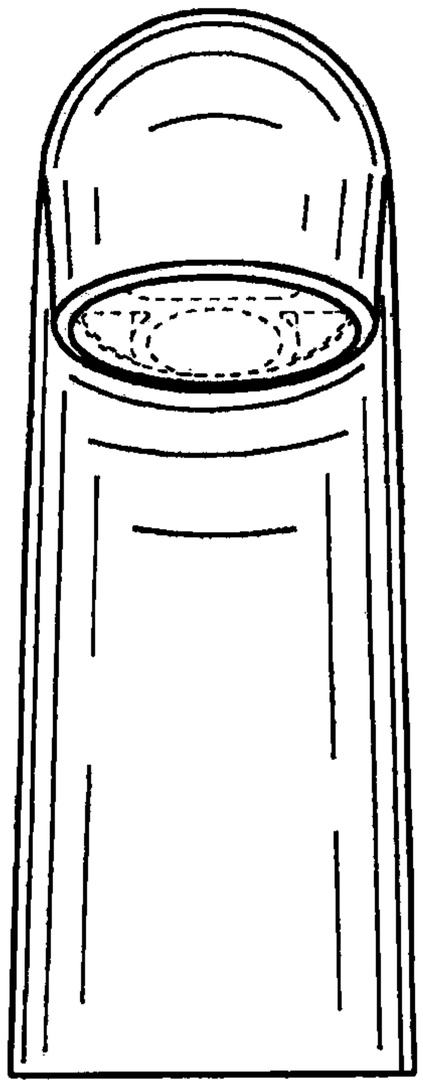


FIG. 3

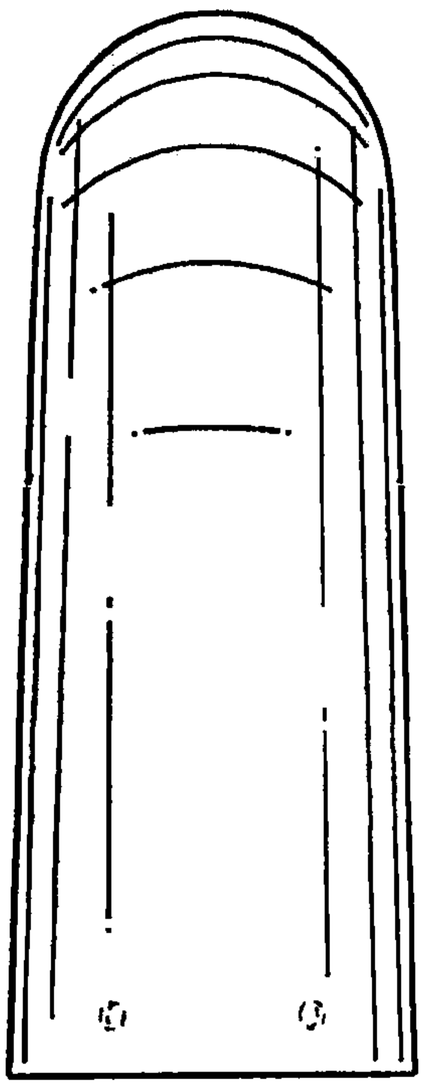


FIG. 4

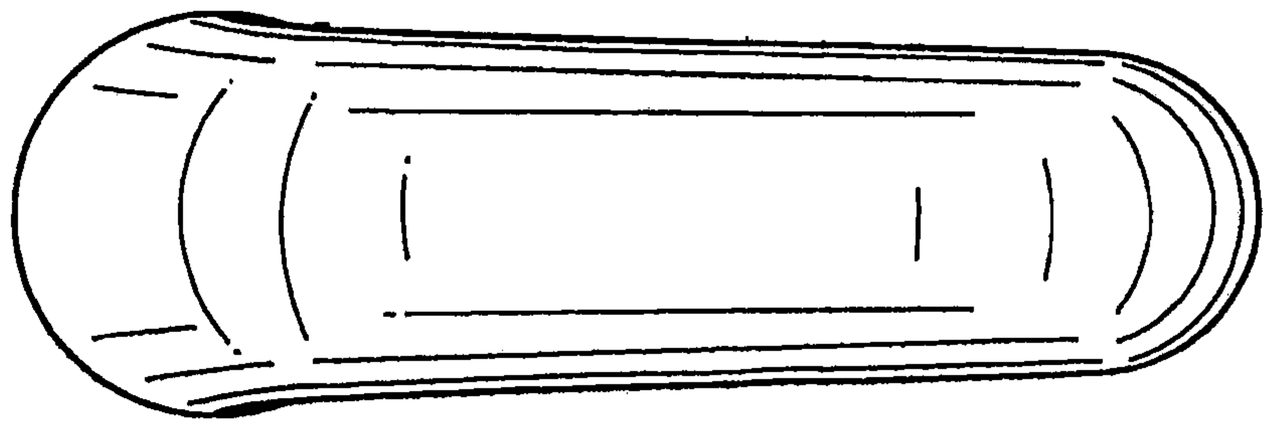


FIG. 5

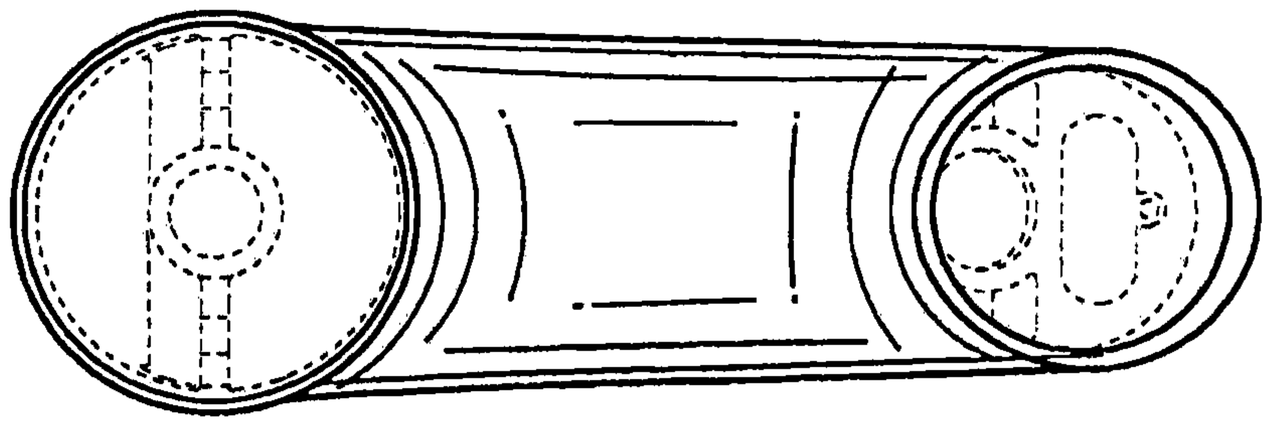


FIG. 6