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(12) **United States Design Patent**
Wackwitz

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(54) **ACCESSORY INTERFACE FOR A TOOL**

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

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(52) **U.S. Cl.** **D8/70**

(58) **Field of Classification Search** D8/70;

D15/140; 30/166.3, 169, 272.1, 277.4, 294,
30/339, 347, 389, 392; 83/665, 666, 676,
83/835, 886; 125/15, 25, 13.01; 403/3, 316,
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451/342, 344, 349, 353, 356, 357, 359, 360,
451/41, 490, 494, 508, 509, 510, 511, 548,
451/559

See application file for complete search history.

3,041,797 A 7/1962 Moffly
3,308,703 A 3/1967 Sauer
3,440,915 A 4/1969 Weyant
3,623,281 A 11/1971 Moffat
3,667,169 A 6/1972 MacKay, Jr.
3,908,499 A 9/1975 Reed

(Continued)

FOREIGN PATENT DOCUMENTS

DE 10061559 A1 6/2002

(Continued)

OTHER PUBLICATIONS

Milwaukee Electric Tool Corporation, Bosch tool, photo, 2010.

(Continued)

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(57)

CLAIM

I claim the ornamental design for an accessory interface for a
tool, as shown and described.

(56) **References Cited**

U.S. PATENT DOCUMENTS

81,661 A 9/1868 McDonald
197,650 A 11/1877 Milligan
223,103 A 12/1879 Berstler
241,178 A 5/1881 Amazeen
390,134 A 9/1888 Miller
519,892 A 5/1894 Newton
742,000 A 10/1903 Brooks
1,947,662 A 2/1934 Robinson
2,132,917 A 10/1938 Albertson
2,550,768 A 5/1951 Burleigh
2,649,868 A 8/1953 Gommel
2,822,648 A 2/1958 Metzger et al.
2,846,826 A 8/1958 Miller
2,854,042 A 9/1958 Robinson
2,912,021 A 11/1959 Gommel
2,997,819 A 8/1961 Schacht

DESCRIPTION

FIG. 1 is a perspective view of an accessory interface.

FIG. 2 is a front view of the accessory interface shown in FIG.
1.

FIG. 3 is a rear view of the accessory interface shown in FIG.
1.

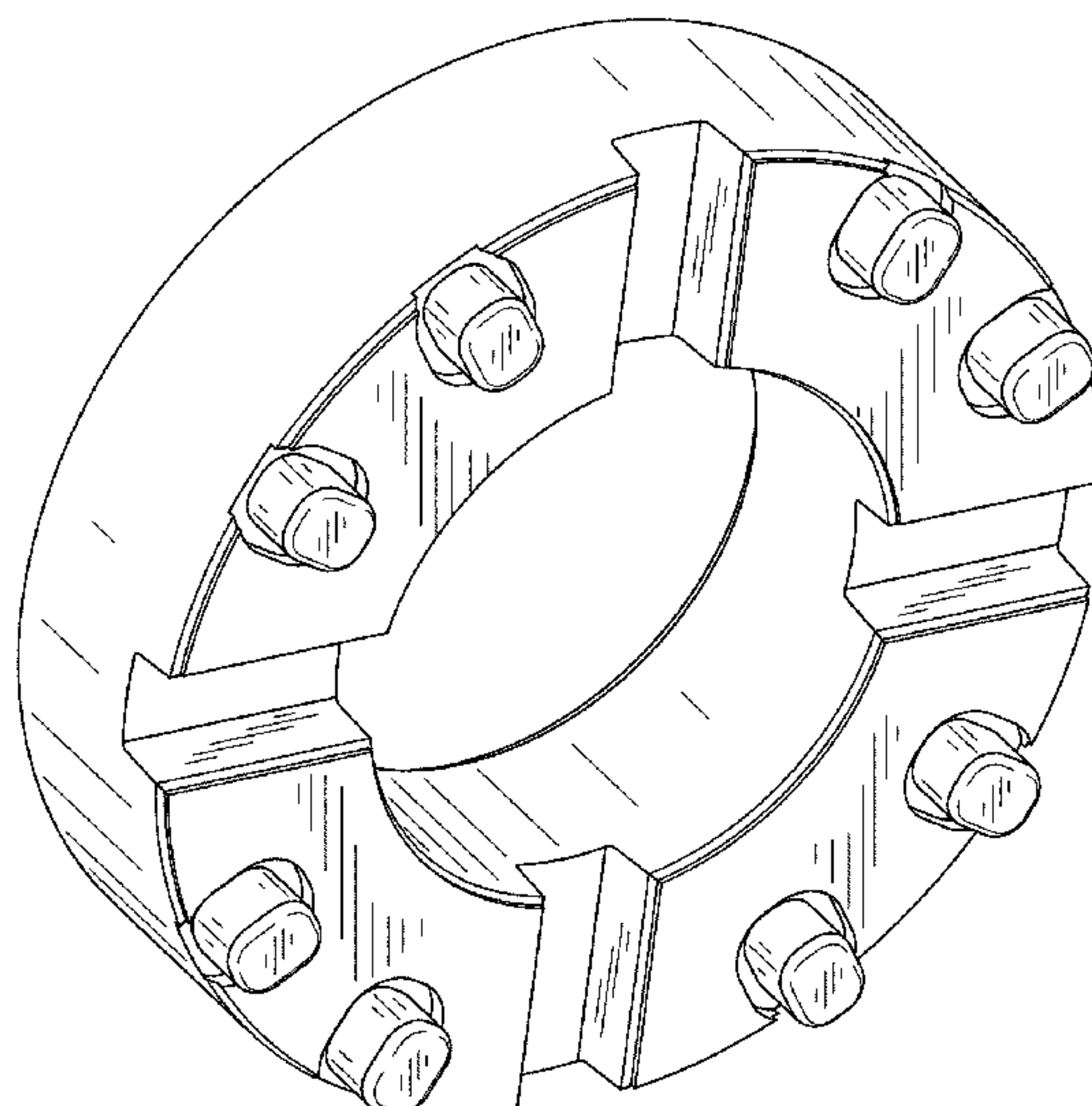
FIG. 4 is a top view of the accessory interface shown in FIG.
1.

FIG. 5 is a bottom view of the accessory interface shown in
FIG. 1.

FIG. 6 is a left side view of the accessory interface shown in
FIG. 1; and,

FIG. 7 is a right side view of the accessory interface shown in
FIG. 1.

1 Claim, 3 Drawing Sheets



US D646,542 S

Page 2

U.S. PATENT DOCUMENTS					
3,943,934 A	3/1976	Bent	6,379,236 B1	4/2002	Takizawa et al.
4,015,371 A	4/1977	Grayston	6,401,342 B1	6/2002	Kloss et al.
4,343,214 A	8/1982	Schadlich	D466,597 S	12/2002	Carr
4,393,626 A	7/1983	Schroer	6,503,253 B1	1/2003	Fletcher et al.
4,432,264 A	2/1984	Scott	6,520,055 B1	2/2003	Reusch et al.
4,436,006 A	3/1984	Nakamura et al.	6,523,214 B1	2/2003	Kaiser
4,436,009 A	3/1984	Ask	6,533,650 B2	3/2003	Yoshida et al.
4,461,195 A	7/1984	Barnick	6,569,001 B2	5/2003	Rudolf et al.
D276,310 S	11/1984	Friberg	6,629,484 B2	10/2003	Soyama et al.
4,497,141 A	2/1985	Jarby	6,640,377 B2	11/2003	Krause et al.
4,637,170 A	1/1987	Block	D486,839 S *	2/2004	Sunagawa et al. D15/126
4,657,428 A	4/1987	Wiley	6,699,112 B2	3/2004	Bergner et al.
4,683,683 A	8/1987	Block	6,723,101 B2	4/2004	Fletcher et al.
4,700,478 A	10/1987	Mezger et al.	6,749,493 B2	6/2004	Wuensch
4,706,386 A	11/1987	Wiley	D493,683 S	8/2004	Hortenbury et al.
4,730,952 A	3/1988	Wiley	6,780,093 B2	8/2004	Krondorfer et al.
4,787,147 A	11/1988	Wiley	6,786,811 B2	9/2004	Krondorfer et al.
4,852,261 A	8/1989	Wittek	6,796,888 B2	9/2004	Jasch
4,905,420 A	3/1990	Flachenecker et al.	6,802,127 B2	10/2004	Thomaschewski
4,989,320 A	2/1991	Borkott et al.	6,802,764 B2	10/2004	Besch
D315,667 S	3/1991	Johnson	6,814,655 B2	11/2004	Hofmann et al.
5,038,478 A	8/1991	Mezger et al.	6,814,657 B2	11/2004	Spangenberg et al.
D327,111 S	6/1992	Hemming	6,827,074 B2	12/2004	Gardner
5,263,283 A	11/1993	Rudolf et al.	6,860,792 B2	3/2005	Krondorfer et al.
5,265,340 A	11/1993	Nitz et al.	6,869,346 B2	3/2005	Wendt et al.
5,292,352 A	3/1994	Rudolf et al.	6,902,471 B2	6/2005	Krondorfer et al.
5,303,688 A	4/1994	Chiuminatta et al.	6,942,558 B2	9/2005	Wuensch
5,309,805 A	5/1994	Mezger et al.	6,942,560 B2	9/2005	Hofmann et al.
5,319,886 A	6/1994	Steere, Jr.	6,945,862 B2	9/2005	Jasch et al.
5,366,312 A	11/1994	Raines	7,000,606 B2	2/2006	Gardner
5,373,834 A	12/1994	Chiuminatta et al.	7,077,734 B2	7/2006	Tiede et al.
5,382,249 A	1/1995	Fletcher	7,077,735 B2	7/2006	Krondorfer et al.
D362,065 S	9/1995	Goris	7,097,548 B2	8/2006	Krondorfer et al.
5,468,247 A	11/1995	Matthai et al.	D528,407 S	9/2006	Schwab
5,477,845 A	12/1995	Zuzelo	7,108,077 B2	9/2006	Zaiser
5,482,499 A	1/1996	Satoh	7,115,027 B2	10/2006	Thomaschewski
5,491,896 A	2/1996	Stolzer et al.	7,115,028 B1	10/2006	Chen
5,496,316 A	3/1996	Goris	7,137,329 B1	11/2006	Moser
5,554,066 A	9/1996	Bosten et al.	7,143,760 B2	12/2006	Gardner
5,555,788 A	9/1996	Gakhar et al.	7,169,025 B2	1/2007	Schumacher
5,597,347 A	1/1997	Bosten et al.	7,201,644 B2	4/2007	Gardner
5,601,483 A	2/1997	Rudolf et al.	7,207,873 B2	4/2007	Hesse et al.
5,626,510 A	5/1997	Bergner et al.	7,217,177 B2	5/2007	Frech et al.
5,637,034 A	6/1997	Everts et al.	7,273,412 B1	9/2007	Sun et al.
5,681,213 A	10/1997	Hashii	7,313,838 B2	1/2008	Long et al.
5,694,693 A	12/1997	Hutchins et al.	D563,186 S *	3/2008	Ahn D8/70
5,702,415 A	12/1997	Matthai et al.	7,402,095 B2	7/2008	Gardner
5,709,595 A	1/1998	Bergner et al.	7,438,629 B2	10/2008	Bosten et al.
5,729,904 A	3/1998	Trott	7,506,877 B1	3/2009	Henderson et al.
5,743,791 A	4/1998	Bosten et al.	7,510,464 B2	3/2009	Stierle et al.
5,749,770 A	5/1998	Uzumcu et al.	7,527,628 B2	5/2009	Fletcher et al.
5,759,094 A	6/1998	Bosten et al.	7,588,484 B2	9/2009	Momosaki
5,842,278 A	12/1998	Gmeilbauer	D609,545 S *	2/2010	Ueno et al. D8/70
5,846,244 A	12/1998	Cripe	D623,034 S *	9/2010	Evatt et al. D8/70
5,901,629 A	5/1999	Stroud	D633,769 S *	3/2011	Evatt et al. D8/70
5,911,620 A	6/1999	Spangenberg et al.	2002/0016143 A1	2/2002	Bosten et al.
5,967,886 A	10/1999	Wuensch et al.	2002/0022444 A1	2/2002	Littlefield
6,004,194 A	12/1999	Hild et al.	2003/0000716 A1	1/2003	Hofmann et al.
6,022,353 A	2/2000	Fletcher et al.	2003/0153254 A1	8/2003	Bosten et al.
6,042,460 A	3/2000	Bosten et al.	2004/0192180 A1	9/2004	Bosten et al.
D424,076 S	5/2000	Dibbern et al.	2004/0243136 A1	12/2004	Gupta et al.
6,099,311 A	8/2000	Wagner et al.	2005/0153640 A1	7/2005	Stein et al.
6,099,397 A	8/2000	Wurst	2006/0150428 A1	7/2006	Baculy
6,110,028 A	8/2000	Chung	2006/0272468 A1	12/2006	Gupta et al.
6,129,618 A	10/2000	Frech	2007/0094877 A1	5/2007	Bohne et al.
6,142,858 A	11/2000	Luedeke	2007/0295156 A1	12/2007	Ziegler et al.
6,155,916 A	12/2000	Rudolf et al.	2008/0003929 A1	1/2008	Degen
6,159,084 A	12/2000	Tiede	2008/0017007 A1	1/2008	Weber et al.
6,257,969 B1	7/2001	Bosten et al.	2008/0029134 A1	2/2008	Long et al.
6,277,012 B1	8/2001	Halliley	2008/0057846 A1	3/2008	Schumacher
6,293,859 B1	9/2001	Fink et al.	2008/0160886 A1	7/2008	Palushaj
6,299,078 B1	10/2001	Fugere	2008/0190259 A1	8/2008	Bohne
6,306,024 B1	10/2001	Kai et al.	2008/0210212 A1	9/2008	Baratta
6,332,836 B1	12/2001	Tseng	2009/0013540 A1	1/2009	Bohne
6,340,022 B1	1/2002	Schroer	2009/0023371 A1	1/2009	Blickle et al.
6,349,446 B1	2/2002	Krause et al.	2009/0083916 A1	4/2009	Lampka et al.
6,361,424 B1	3/2002	Manor et al.	2009/0209186 A1	8/2009	Krauss et al.
6,371,837 B1	4/2002	Luedeke	2009/0293696 A1	12/2009	Rauscher et al.
			2009/0318065 A1	12/2009	Zaiser et al.

2010/0009613 A1 1/2010 Frueh et al.
2010/0052269 A1 3/2010 Zaiser et al.
2010/0056029 A1 3/2010 Grunikiewicz

FOREIGN PATENT DOCUMENTS

DE	20309329	U1	8/2003
DE	102004050798	A1	4/2006
DE	202006013890	U1	11/2006
DE	102006021969	A1	11/2007
DE	102007039367	A1	3/2008
DE	102007018467	A1	10/2008
DE	102007036786	A1	10/2008
DE	102007035045	A1	1/2009
DE	202007018679	U1	1/2009
DE	102008027671	A1	12/2009
EP	1213107	A1	6/2002
EP	1302286	A1	4/2003
EP	1852218	A1	11/2007
EP	2017036	A1	1/2009
EP	2143531	A1	1/2010
EP	2159000	A1	3/2010
WO	2008128813	A1	10/2008
WO	2008128862	A1	10/2008

OTHER PUBLICATIONS

Milwaukee Electric Tool Corporation, Bosch tool and accessories, photo, 2010.
Milwaukee Electric Tool Corporation, Bosch tool and adapter, photo, 2010.
Milwaukee Electric Tool Corporation, Rockwell tool, photo, 2010.
Milwaukee Electric Tool Corporation, Rockwell tool and accessories, photo, 2010.
Milwaukee Electric Tool Corporation, Craftsman tool, photo, 2010.
Milwaukee Electric Tool Corporation, Craftsman tool and accessories, photo, 2010.
Milwaukee Electric Tool Corporation, Dremel tool, photo, 2010.
Milwaukee Electric Tool Corporation, Dremel tool and accessories, photo, 2010.
Milwaukee Electric Tool Corporation, Fein tool, photo, 2010.
Milwaukee Electric Tool Corporation, Fein tool and accessories, photo, 2010.
EP Designs 000535174-0001 and 000535174-0002 for cutting discs, show at <http://oami.europa.eu/RCDOnline/RequestManager>.

* cited by examiner

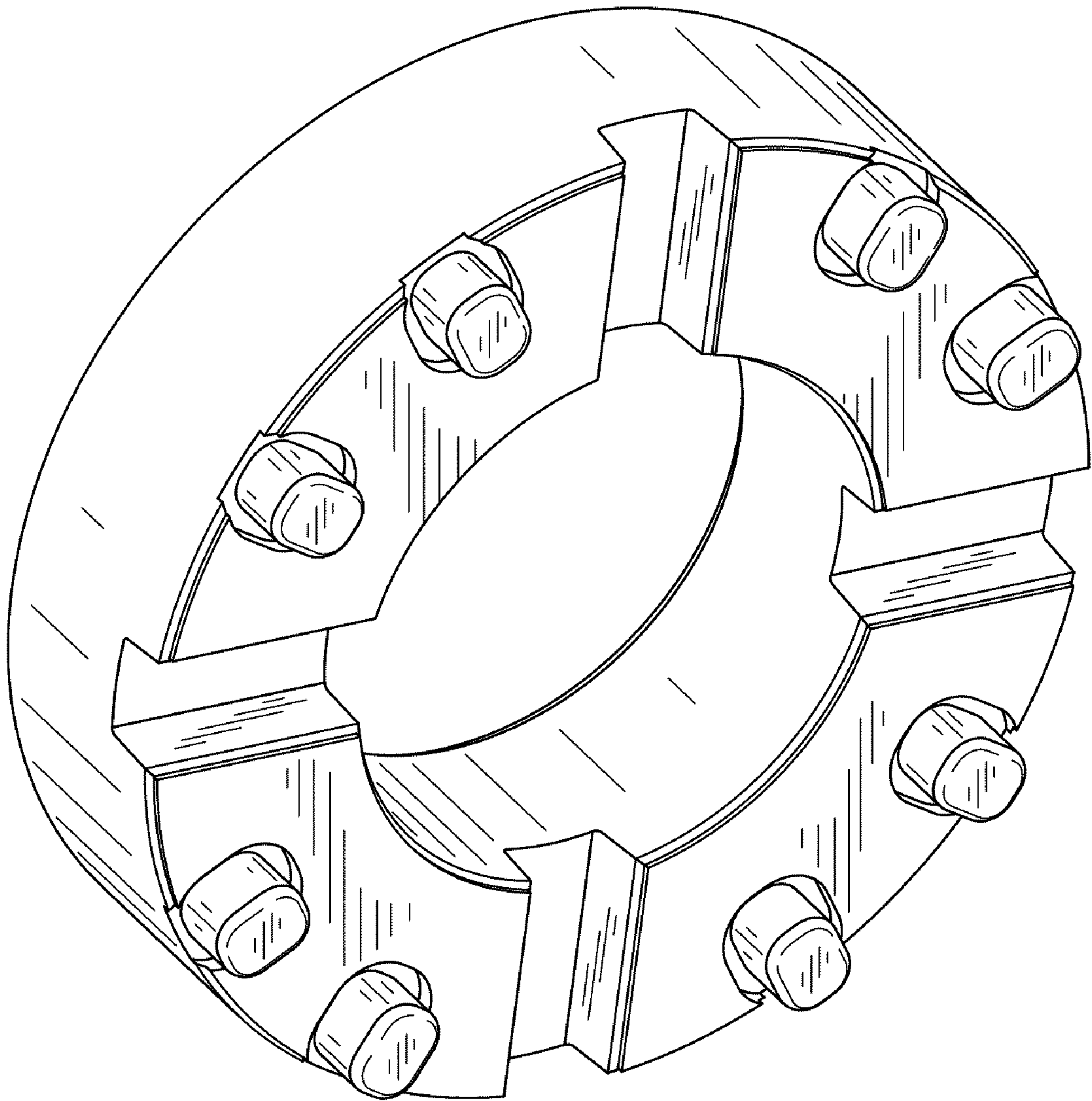


FIG. 1

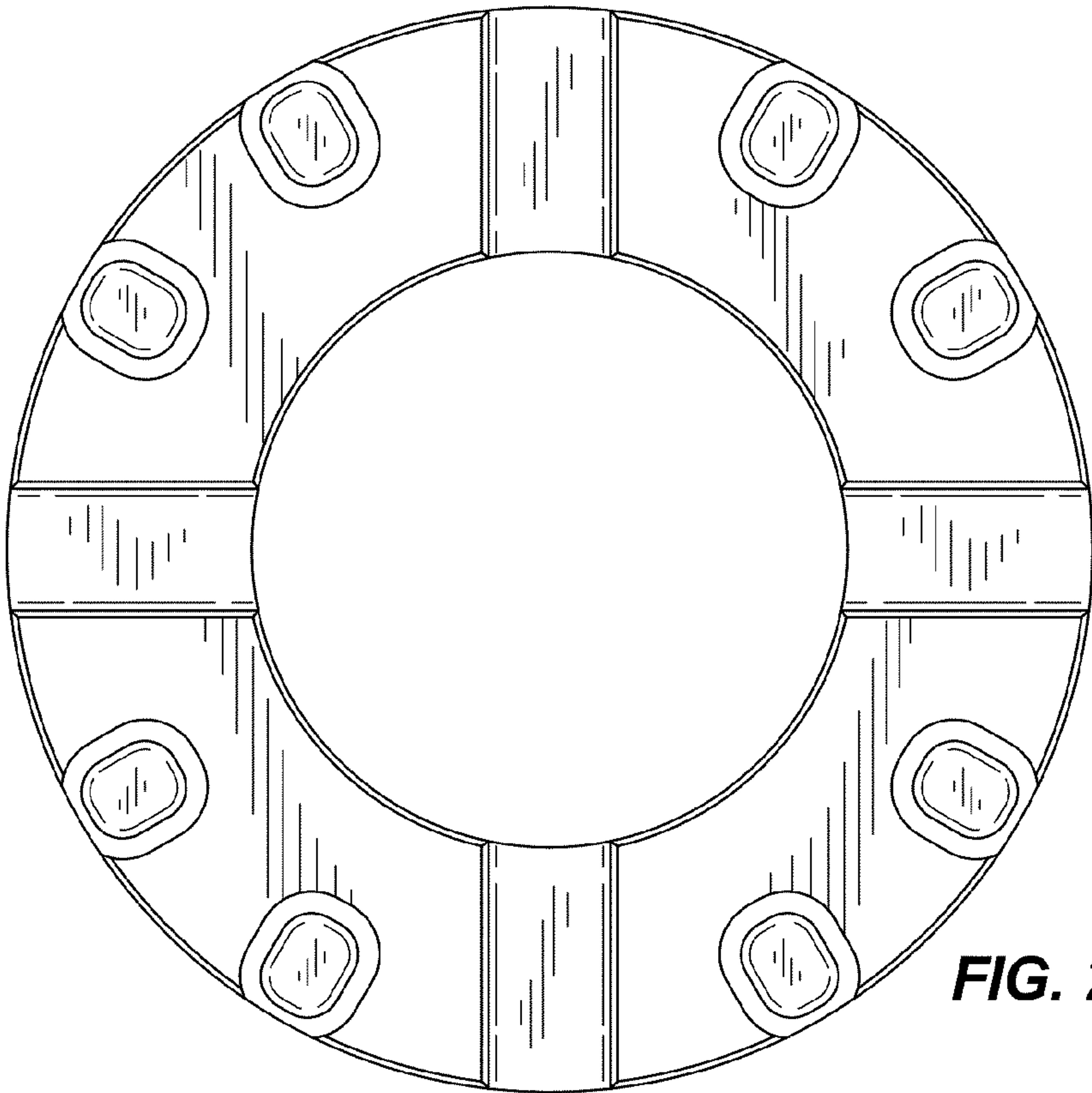


FIG. 2

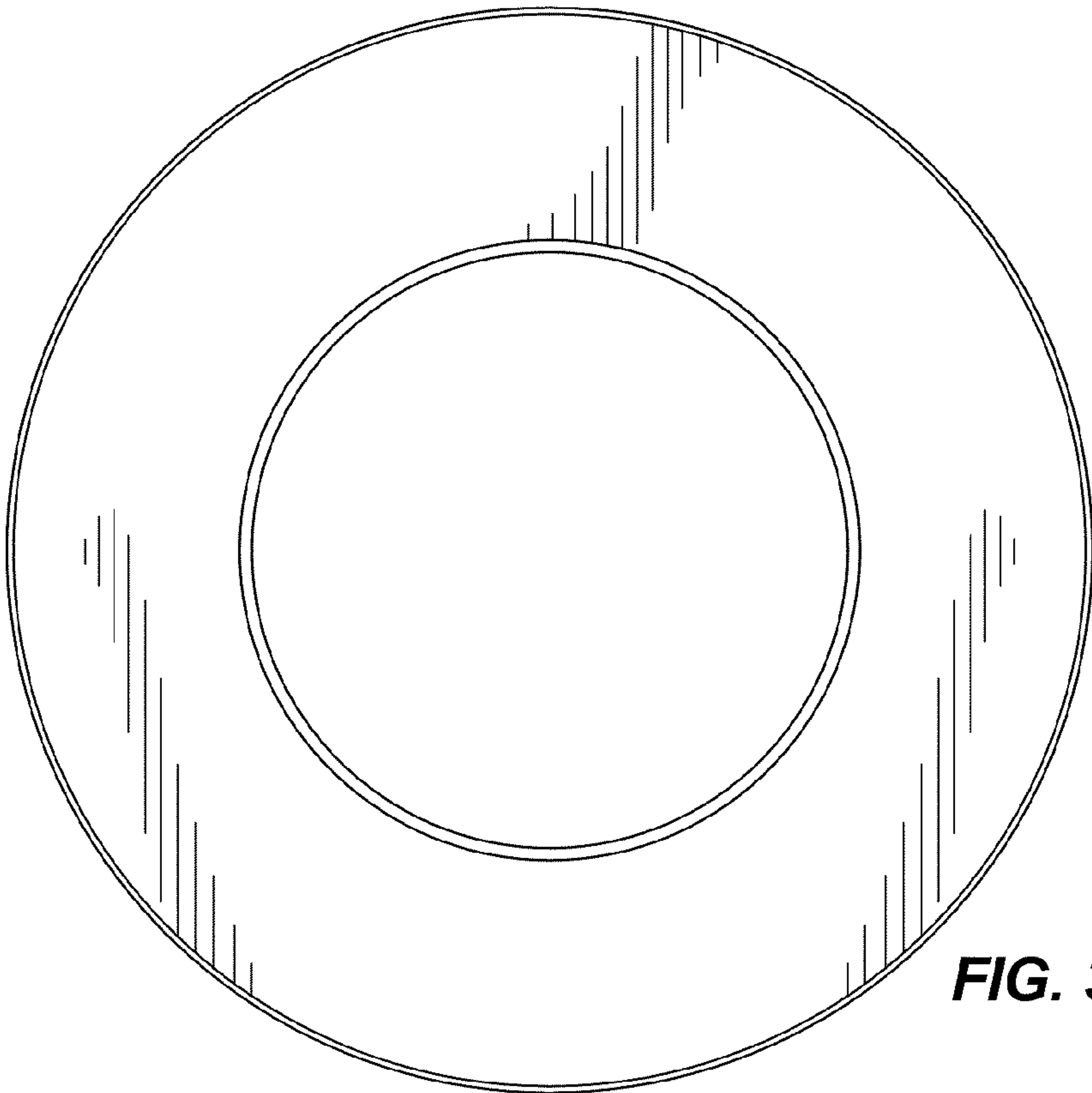


FIG. 3

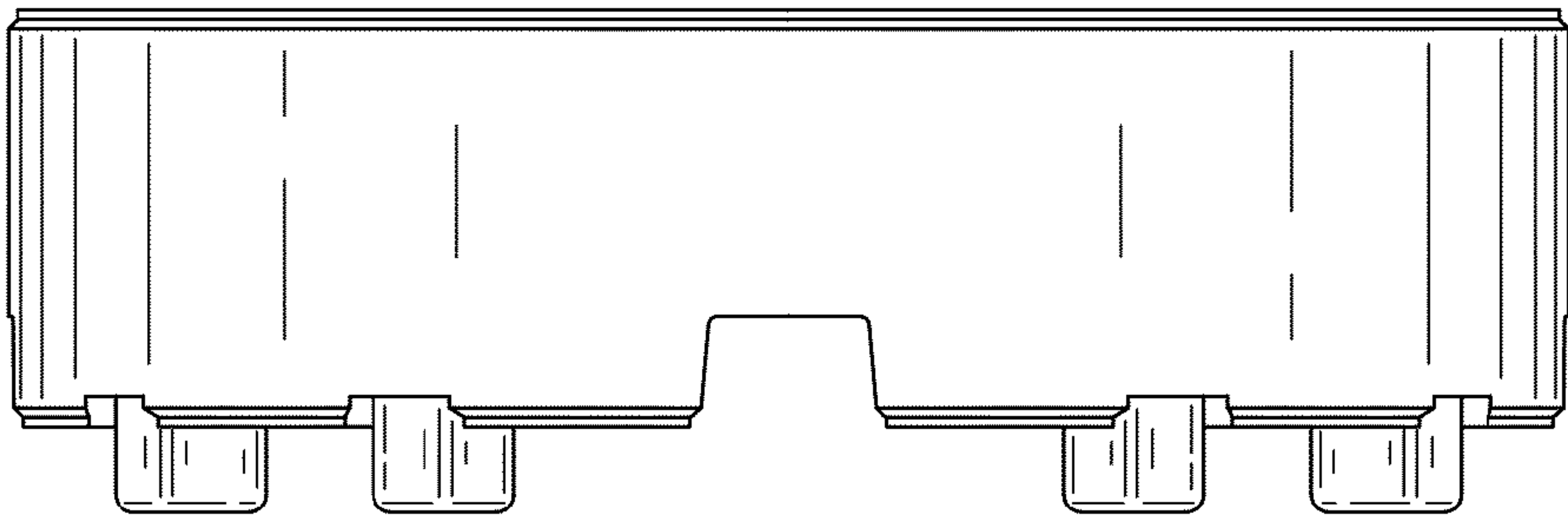


FIG. 4

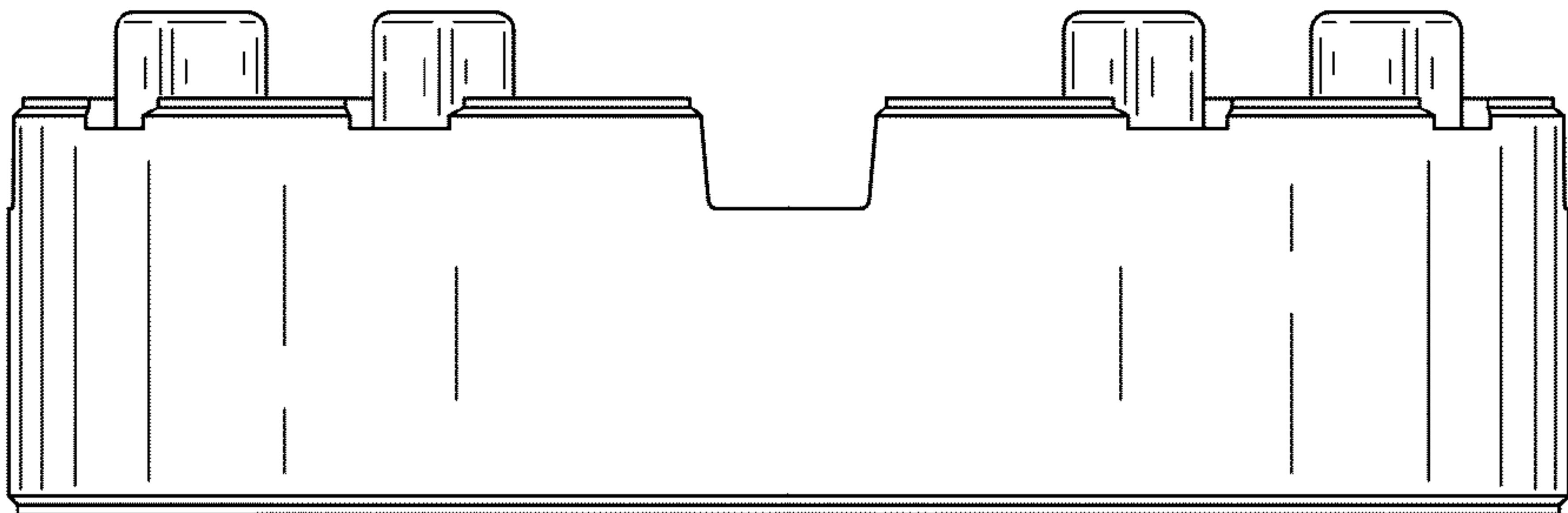


FIG. 5

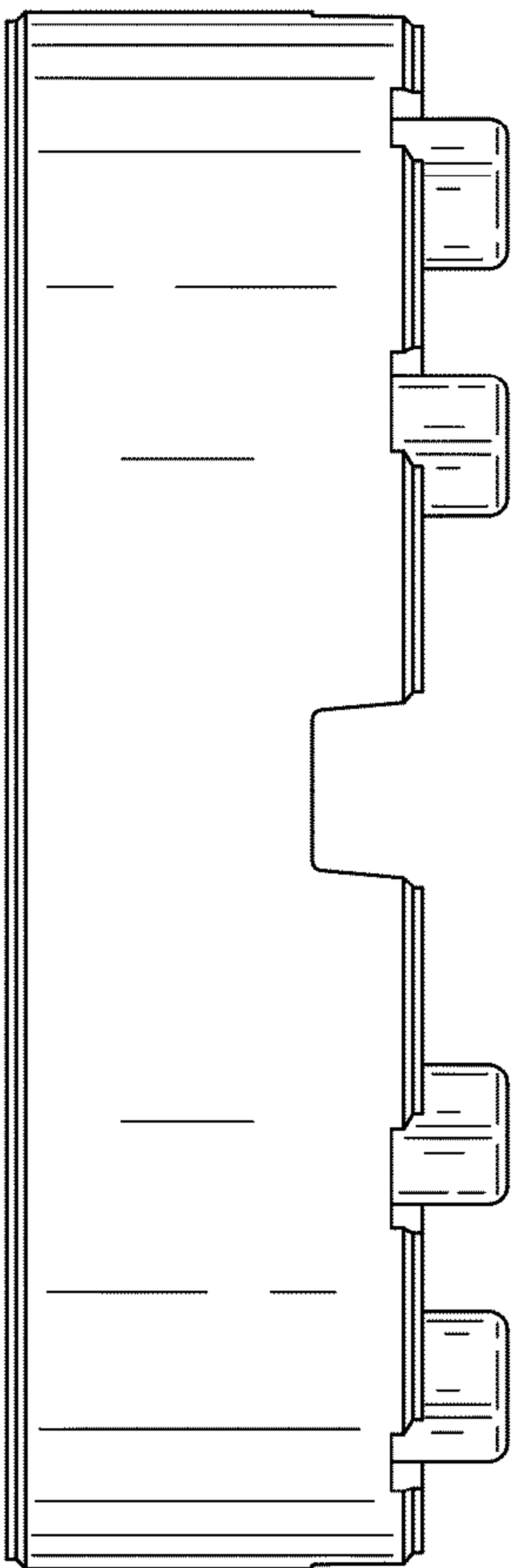


FIG. 6

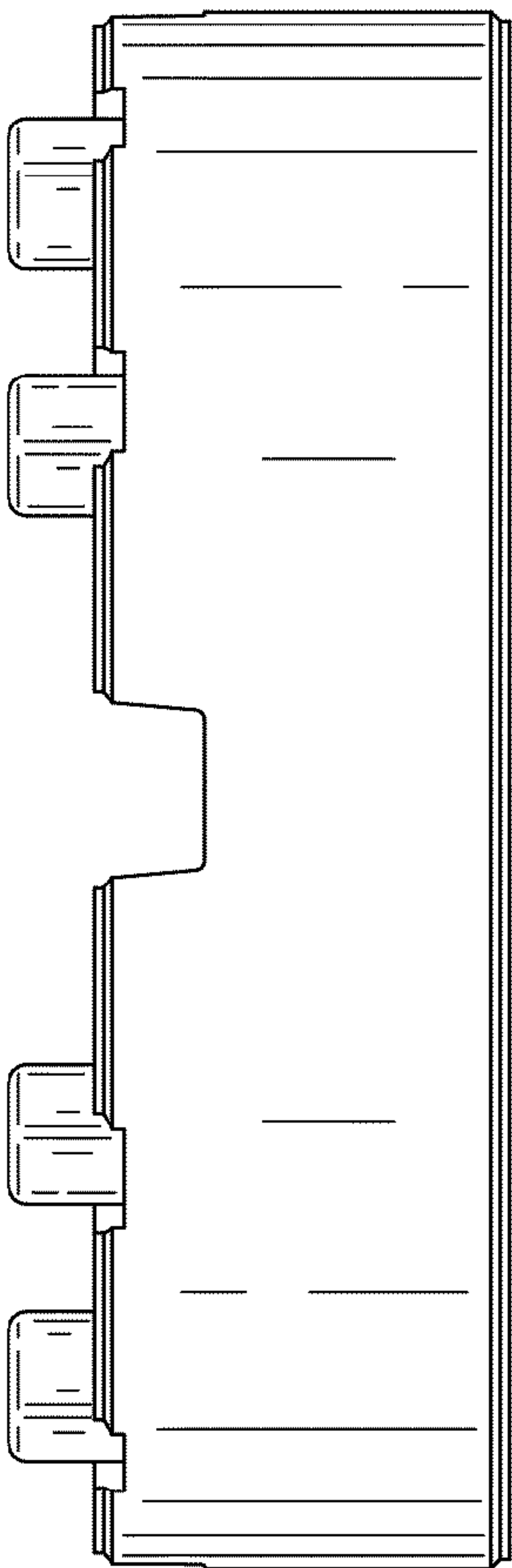


FIG. 7