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**Brooks et al.**

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(54) **SHAFT COLLAR**

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(52) **U.S. Cl.** ..... **D15/5**

(58) **Field of Classification Search** ..... D15/5,  
D15/143; D8/354-356, 394-396; D23/264,  
D23/265; 403/19; 248/49, 56, 62, 65, 74.2,  
248/74.4

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

629,847 A	8/1899	Doolittle	
973,466 A	10/1910	Beegen	
955,478 A	6/1911	Nelson	
1,023,419 A	4/1912	Dewey	
1,098,442 A	6/1914	Huyck	
1,185,487 A	5/1916	Eastman	
1,501,203 A	7/1924	Crossley	
1,586,959 A *	6/1926	Blake	269/165
1,740,957 A	12/1929	Phillips	
1,904,340 A	4/1933	Wright	
2,163,315 A *	6/1939	Dalrymple	403/344
2,238,937 A	4/1941	Hufferd et al.	
2,270,466 A *	1/1942	Nash	403/350
2,453,492 A	11/1948	Carter	
2,673,102 A	3/1954	Hutchinson	
3,127,202 A	3/1964	Koen	
3,281,170 A	10/1966	Kaplan	
3,445,130 A	5/1969	Obenshain	
3,473,202 A	10/1969	Howard	

3,625,555 A	12/1971	Scott et al.
3,846,742 A	11/1974	Ettinger
3,876,318 A	4/1975	Crispell
3,917,424 A	11/1975	Zugel
4,116,572 A	9/1978	Heldmann et al.
4,123,095 A	10/1978	Stehlin
4,136,989 A	1/1979	Bianco

(Continued)

**OTHER PUBLICATIONS**

Office Action Summary mailed Jun. 10, 2009, in U.S. Appl. No. 12/260,988.

(Continued)

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(57) **CLAIM**

The ornamental design for a shaft collar, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a shaft collar, showing our new design;

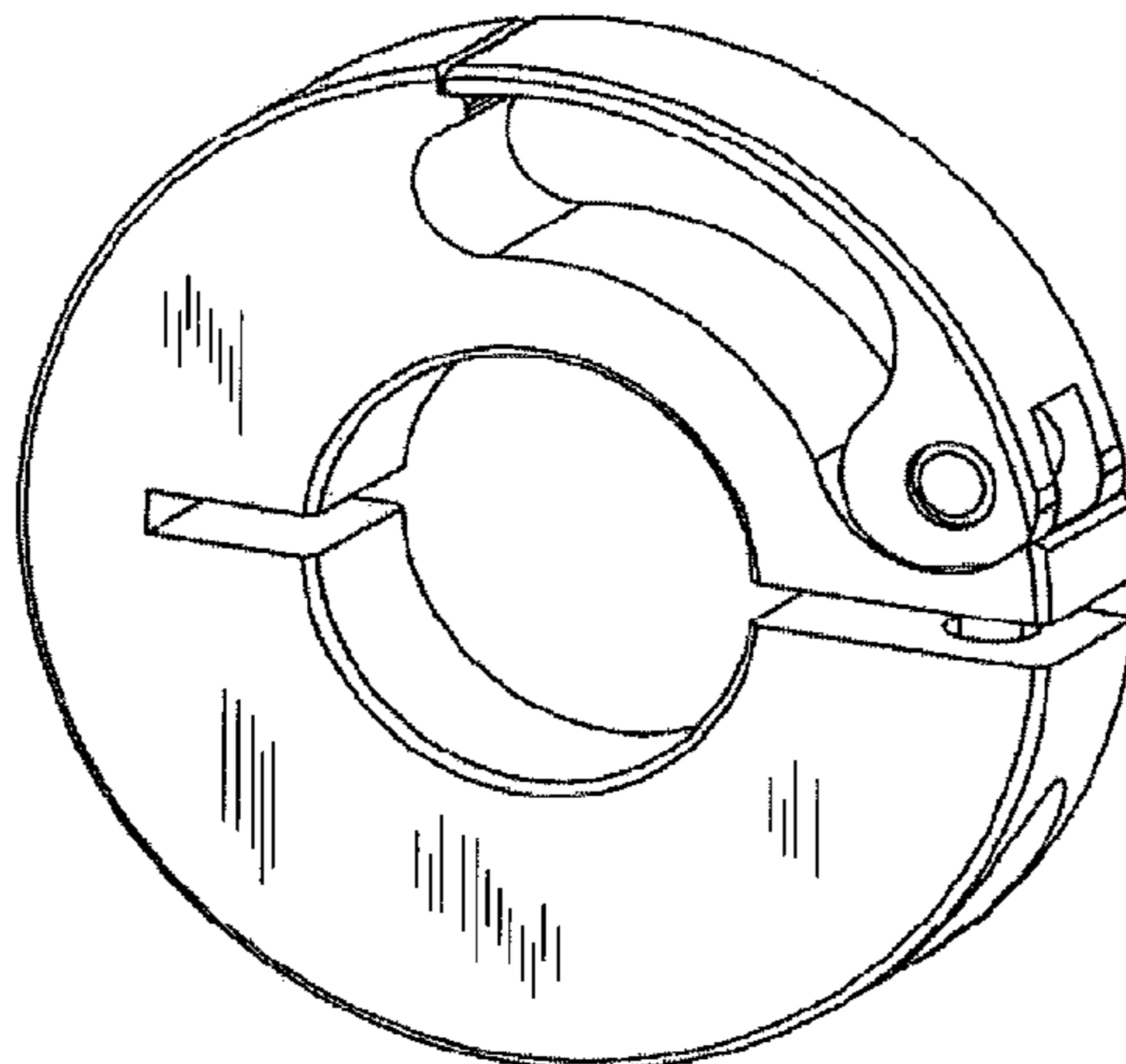
FIG. 2 is a front side view of the invention of FIG. 1;

FIG. 3 is a top side view of the invention of FIG. 1;

FIG. 4 is a bottom side view of the invention of FIG. 1; and,

FIG. 5 is a right side view of the invention of FIG. 1.

**1 Claim, 2 Drawing Sheets**



U.S. PATENT DOCUMENTS

4,142,811 A 3/1979 Burnham  
 4,200,407 A 4/1980 Bianco  
 4,217,061 A 8/1980 Eiland et al.  
 4,221,497 A 9/1980 Farrell  
 4,272,871 A 6/1981 Weinhold  
 4,381,585 A 5/1983 Morel  
 4,422,793 A 12/1983 Mandich  
 4,428,697 A 1/1984 Ruland  
 4,573,717 A 3/1986 Peacock  
 4,657,284 A 4/1987 Fiori  
 4,877,381 A \* 10/1989 Johnson et al. .... 418/55.6  
 4,969,923 A 11/1990 Reeder et al.  
 5,067,845 A 11/1991 Schlueter  
 5,069,054 A 12/1991 Hladky et al.  
 5,096,327 A 3/1992 Ruland  
 5,188,400 A 2/1993 Riley et al.  
 5,295,933 A 3/1994 Ciminski et al.  
 5,380,052 A 1/1995 Hendrickson  
 5,586,832 A 12/1996 Zylka  
 5,851,084 A 12/1998 Nishikawa  
 6,050,615 A 4/2000 Weinhold  
 6,056,332 A 5/2000 Foster  
 6,413,006 B1 7/2002 Neugart  
 6,760,985 B2 7/2004 Wilson

7,118,300 B2 10/2006 Bacskey  
 7,210,201 B2 5/2007 Maeckle et al.  
 7,290,805 B2 11/2007 Wu  
 7,399,007 B2 7/2008 Wu  
 2007/0009322 A1 1/2007 Lang et al.  
 2007/0163059 A1 \* 7/2007 Wimberley ..... 15/1

OTHER PUBLICATIONS

Stafford Manufacturing Corp., <http://www.staffordmfg.com/ProdSpec.aspx?catId=49>, last accessed Jan. 7, 2009.  
 Stafford Mfg. Corp., Solution Series (catalog), Grip-Fast Self-Locking Collars, p. 16, <http://www.staffordmfg.com/ProductCategory.aspx>, last accessed Jan. 7, 2009.  
 McMaster-Carr Supply Company Online Catalog, Quick-Connect One-Piece Shaft Collars, p. 1138, <http://www.kk.org/cooltools/archives/000493.php>, last accessed Jan. 7, 2009.  
 Joachim Uhing KG GmbH & Co., <http://www.uhing.com/index.php?sp-32 en&id-32 785>, last accessed Nov. 26, 2008.  
 Misumi USA, 2008 Misumi Inch Mechanical Components for Factory Automation (catalog), Shaft Collars—One Touch, p. 146.  
 Misumi USA, 2008 Misumi Metric Mechanical Components for Factory Automation (catalog), Shaft Collars—with Clamp Lever, p. 221.

\* cited by examiner

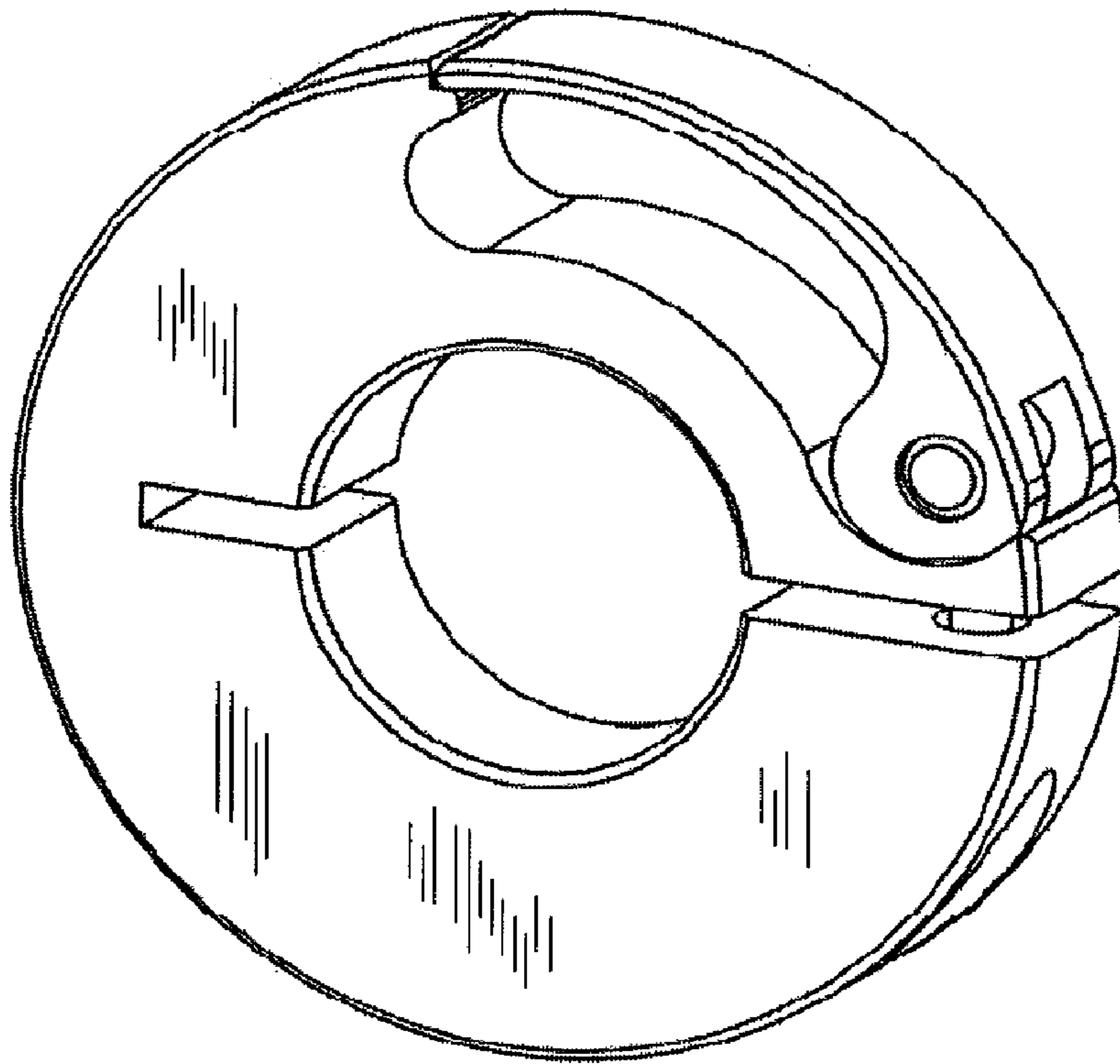


FIG. 1

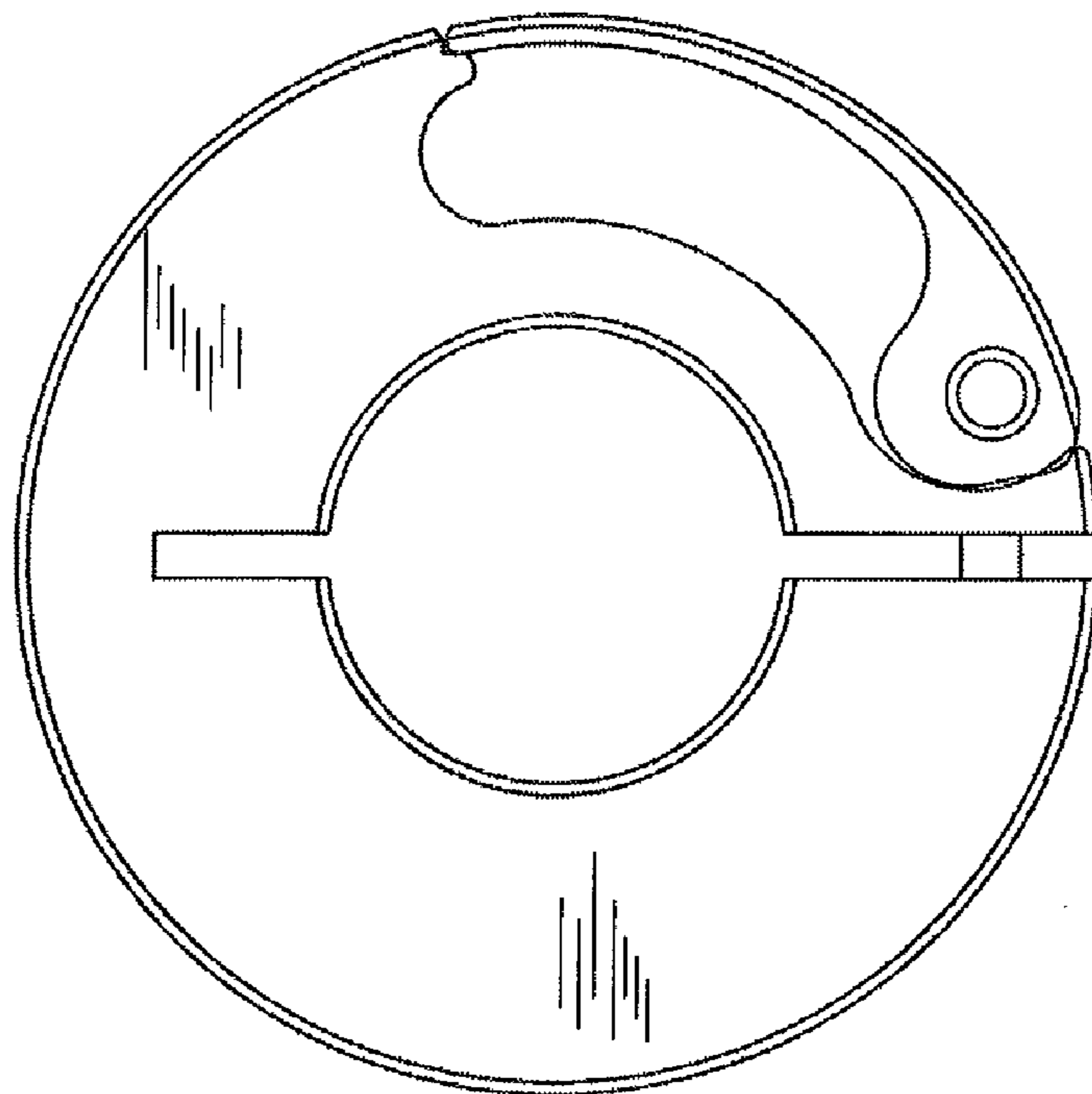


FIG. 2

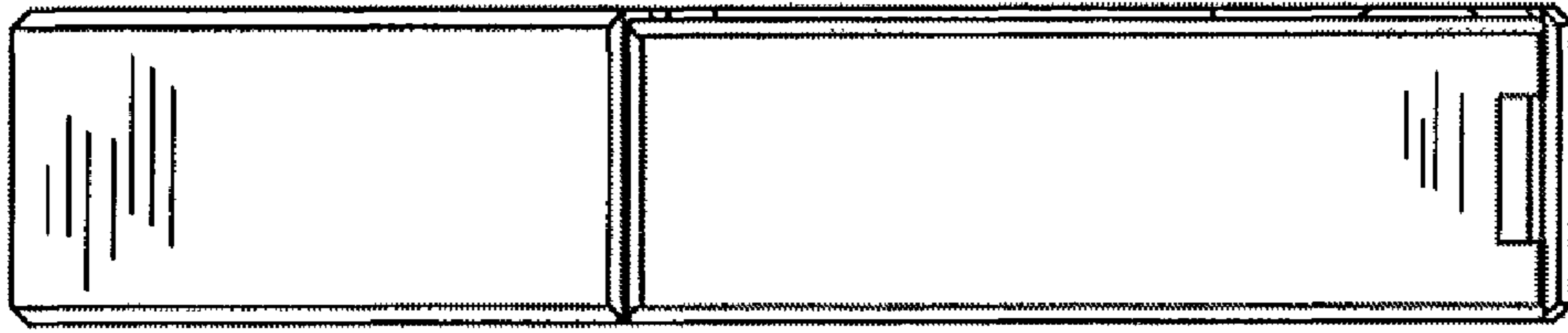


FIG. 3

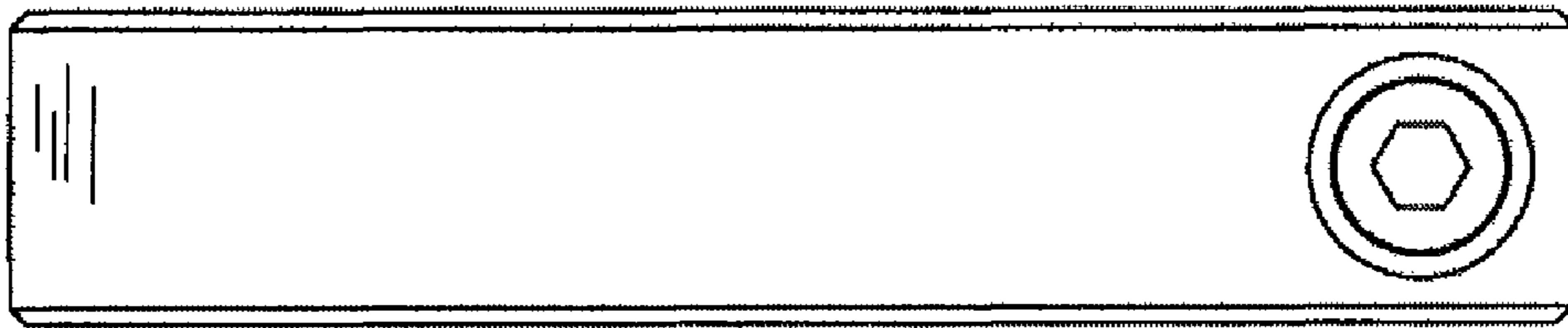


FIG. 4

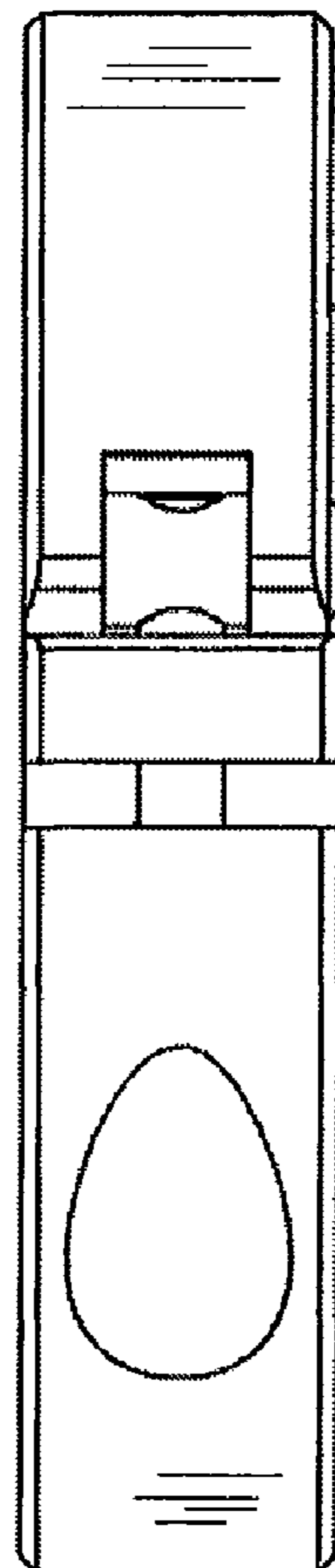


FIG. 5