

US00D602771S

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

(10) **Patent No.:** **US D602,771 S**

(45) **Date of Patent:** **\*\* Oct. 27, 2009**

(54) **CONNECTOR FOR A RECREATIONAL STRUCTURE**

4,514,107 A 4/1985 Moreno  
4,540,309 A 9/1985 Hansson

(76) Inventor: **Jeffry L. VanElverdinghe**, 4537 SW.  
164<sup>th</sup> Pl., Beaverton, OR (US) 97007

(Continued)

**FOREIGN PATENT DOCUMENTS**

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

AU 2004100729 A4 9/2004

(21) Appl. No.: **29/323,712**

(Continued)

(22) Filed: **Aug. 29, 2008**

**OTHER PUBLICATIONS**

(51) **LOC (9) Cl.** ..... **08-08**

H176, Johnstone, Jr., "Slip Tee Pipe Fitting," Dec. 2, 1986.

(52) **U.S. Cl.** ..... **D8/382**

(Continued)

(58) **Field of Classification Search** ..... D8/382;  
403/300, 305-306, 205, 312, 388, 217, 169,  
403/170, 173-174; 211/182, 68; D23/262,  
D23/266

*Primary Examiner*—Holly H Baynham

*Assistant Examiner*—Sheryl Lane

(74) *Attorney, Agent, or Firm*—Joseph P. Curtin, L.L.C.

See application file for complete search history.

(56) **References Cited**

(57) **CLAIM**

**U.S. PATENT DOCUMENTS**

The ornamental design for a connector for a recreational structure, shown and described.

959,973 A	5/1910	Tomkins	
1,830,262 A	11/1931	Carlson	
1,850,049 A	3/1932	Cornell, Jr.	
1,982,498 A	11/1934	Cornell, Jr.	
1,992,312 A	2/1935	Kuehn	
2,128,720 A	8/1938	Tweeddale	
2,931,129 A	4/1960	Boniface	
3,201,126 A	8/1965	Nissen	
3,339,925 A	9/1967	Nissen	
3,502,357 A	3/1970	Wagner	
3,837,643 A	9/1974	Lee	
3,948,515 A	4/1976	McNeil	
3,988,872 A	11/1976	Adamson et al.	
4,008,971 A	2/1977	Wah et al.	
4,129,975 A *	12/1978	Gabriel	52/655.2
RE30,344 E	7/1980	McNeil	
4,284,271 A	8/1981	Pettit et al.	
4,339,123 A	7/1982	Rich	
4,359,851 A	11/1982	Daniels	
4,370,790 A	2/1983	Rodaway	
4,413,361 A	11/1983	Wolf et al.	
4,433,838 A	2/1984	Gordon	
4,478,420 A	10/1984	Sowards	
4,480,941 A	11/1984	Gilb et al.	

**DESCRIPTION**

FIG. 1 is a perspective view of a connector for a recreational structure according to the subject matter disclosed herein;

FIG. 2 is a front view of a connector for a recreational structure according to the subject matter disclosed herein;

FIG. 3 is a bottom view of a connector for a recreational structure according to the subject matter disclosed herein;

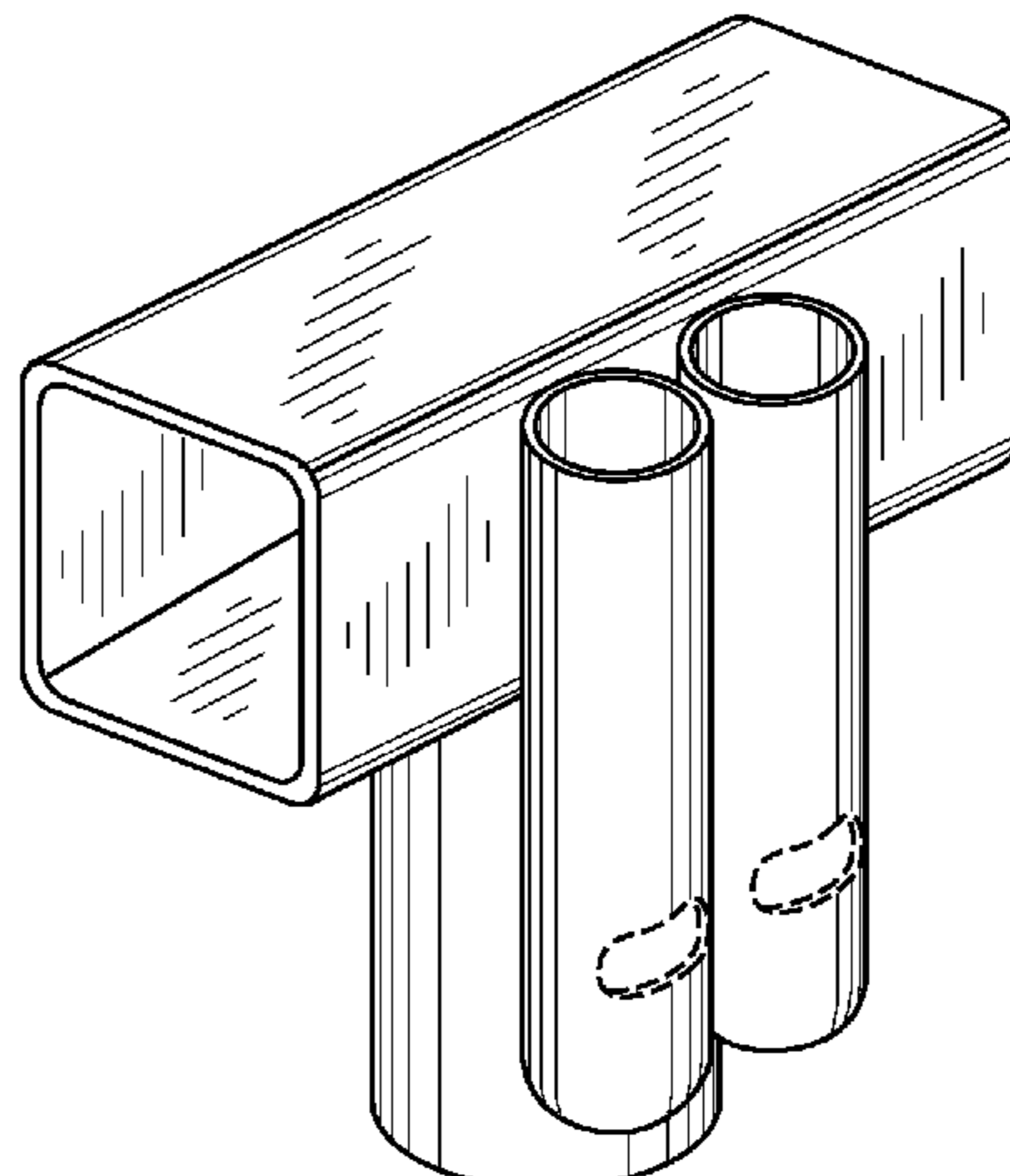
FIG. 4 is a top view of a connector for a recreational structure according to the subject matter disclosed herein;

FIG. 5 is a side view of a connector for a recreational structure according to the subject matter disclosed herein; and,

FIG. 6 is a back view of a connector for a recreational structure according to the subject matter disclosed herein.

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

**1 Claim, 1 Drawing Sheet**



U.S. PATENT DOCUMENTS

4,569,515 A 2/1986 Gordon  
 4,572,695 A 2/1986 Gilb  
 4,598,905 A 7/1986 Vrana  
 4,644,892 A 2/1987 Fisher  
 4,703,769 A 11/1987 Harrison, Jr.  
 4,776,581 A 10/1988 Shepherdson  
 4,836,530 A 6/1989 Stanley, Jr.  
 4,885,883 A 12/1989 Wright  
 4,900,011 A 2/1990 Nolet  
 5,010,603 A 4/1991 Hertzog  
 5,040,716 A 8/1991 Stetz  
 D328,119 S 7/1992 Matsch  
 D328,940 S 8/1992 Matsch  
 D330,741 S 11/1992 Matsch  
 D330,742 S 11/1992 Matsch  
 D330,744 S 11/1992 Matsch  
 5,230,581 A 7/1993 Deng  
 5,269,533 A 12/1993 Kellams  
 5,299,839 A 4/1994 Mogavero  
 D355,589 S \* 2/1995 Kuwata ..... D8/382  
 5,390,913 A 2/1995 Kepler  
 5,399,132 A 3/1995 Bailey  
 5,469,678 A 11/1995 Zamerovsky  
 5,545,110 A 8/1996 Hsiang  
 5,549,067 A 8/1996 Jolin  
 D376,405 S 12/1996 Strawcutter et al.  
 5,617,697 A 4/1997 Erwin  
 D382,618 S 8/1997 Gift  
 5,664,769 A 9/1997 Sadinsky et al.  
 5,674,157 A 10/1997 Wilkinson  
 D386,395 S \* 11/1997 Ookubo et al. .... D8/382  
 D386,396 S \* 11/1997 Ookubo et al. .... D8/382  
 5,711,743 A 1/1998 Nichols, Jr. et al.  
 5,921,049 A 7/1999 Sugiyama  
 D412,830 S \* 8/1999 Murakami ..... D8/382  
 6,032,431 A 3/2000 Sugiyama  
 6,053,845 A 4/2000 Publicover et al.  
 D423,918 S \* 5/2000 Hirano et al. .... D8/382  
 6,135,922 A 10/2000 Nissen  
 6,193,632 B1 2/2001 Steger  
 6,216,717 B1 4/2001 Chen  
 6,261,207 B1 7/2001 Publicover et al.  
 6,402,414 B1 6/2002 Kanodia et al.  
 6,402,662 B1 6/2002 Rieber  
 6,450,187 B1 9/2002 Lin et al.

6,478,039 B2 11/2002 Suh  
 6,802,169 B2 10/2004 Simmons  
 7,182,713 B2 2/2007 Wang et al.  
 7,220,218 B1 5/2007 Chu  
 D564,868 S \* 3/2008 Terada et al. .... D8/382  
 D570,947 S 6/2008 Horne  
 D576,024 S \* 9/2008 Mazzocco ..... D8/382  
 D576,025 S \* 9/2008 Mazzocco ..... D8/382  
 D592,492 S \* 5/2009 Werschmidt ..... D8/382  
 2003/0026645 A1 2/2003 Hoke, Jr.  
 2004/0091307 A1 5/2004 James  
 2004/0147370 A1 7/2004 Wang et al.  
 2004/0176214 A1 9/2004 Yueh  
 2005/0037896 A1 2/2005 Publicover  
 2005/0054485 A1 3/2005 McDermott et al.  
 2005/0107217 A1 5/2005 Chen  
 2005/0137061 A1 6/2005 Wang et al.  
 2005/0143225 A1 6/2005 Adams  
 2005/0226683 A1 10/2005 Herb  
 2005/0227812 A1 10/2005 James  
 2006/0046899 A1 3/2006 Wang et al.  
 2006/0128529 A1 6/2006 Adams  
 2006/0172861 A1 8/2006 Wang et al.  
 2006/0189441 A1 8/2006 VanElverdinghe et al.  
 2006/0189442 A1 8/2006 Publicover  
 2006/0258509 A1 11/2006 Adams  
 2006/0258510 A1 11/2006 McGee et al.  
 2006/0270525 A1 11/2006 Colling  
 2007/0012902 A1 1/2007 Mo  
 2007/0015631 A1 1/2007 Mo  
 2007/0021272 A1 1/2007 Slade  
 2007/0049463 A1 3/2007 Chu  
 2007/0072738 A1 3/2007 Lai

FOREIGN PATENT DOCUMENTS

AU 2007100271 A4 5/2007  
 GB 2 417 996 A 3/2006  
 NL 1030053 6/2007  
 WO WO 02/13913 A1 2/2002

OTHER PUBLICATIONS

L.H.Teh et al., "Strength of Welded T-Joint Truss Connections Between Equal Width Cold-Formed RHS," Research Report No. R831, Dept. of Civil Engineering, Centre for Advanced Structural Engineering, The University of Sydney, Aug. 2003.

\* cited by examiner

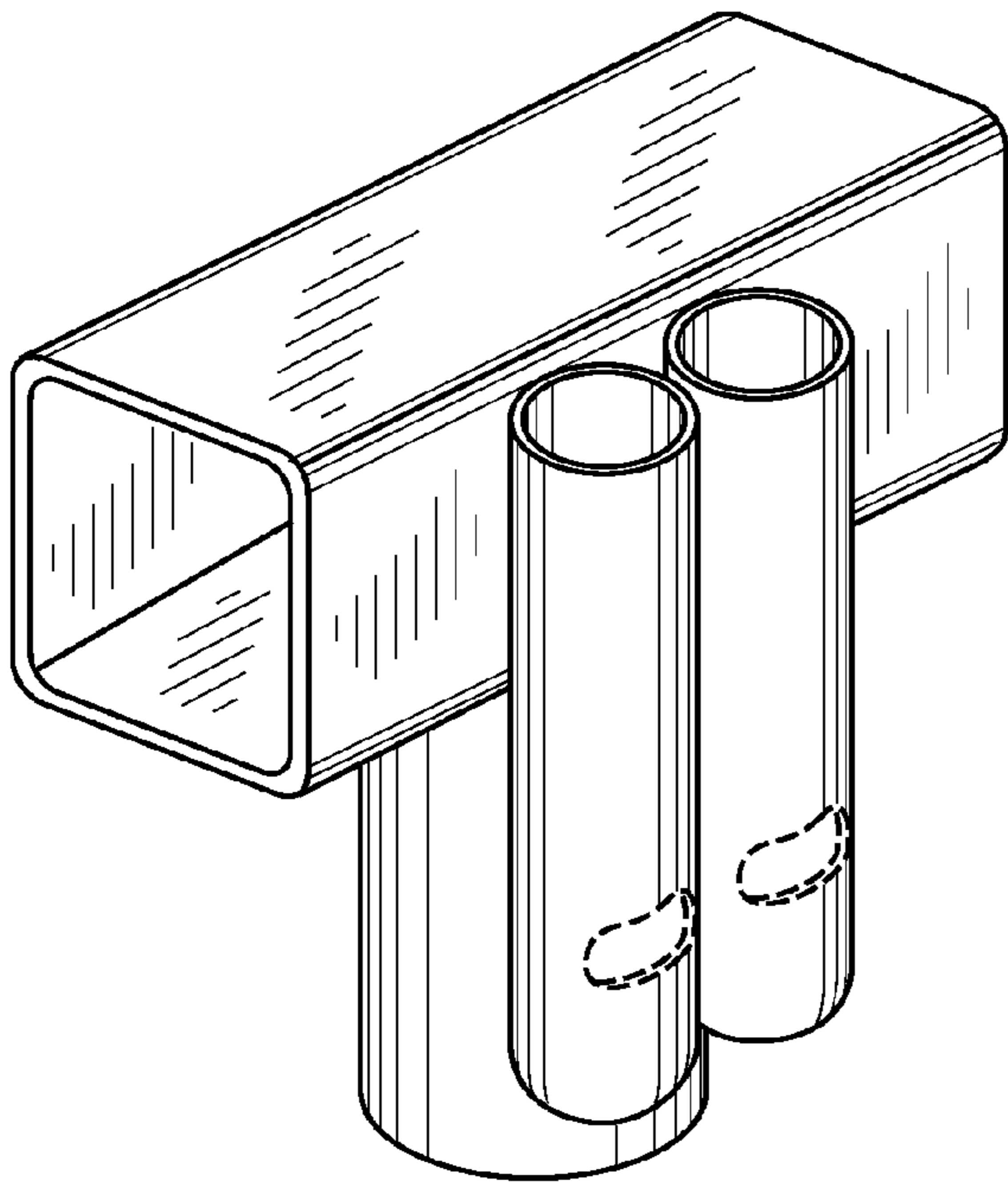


FIG. 1

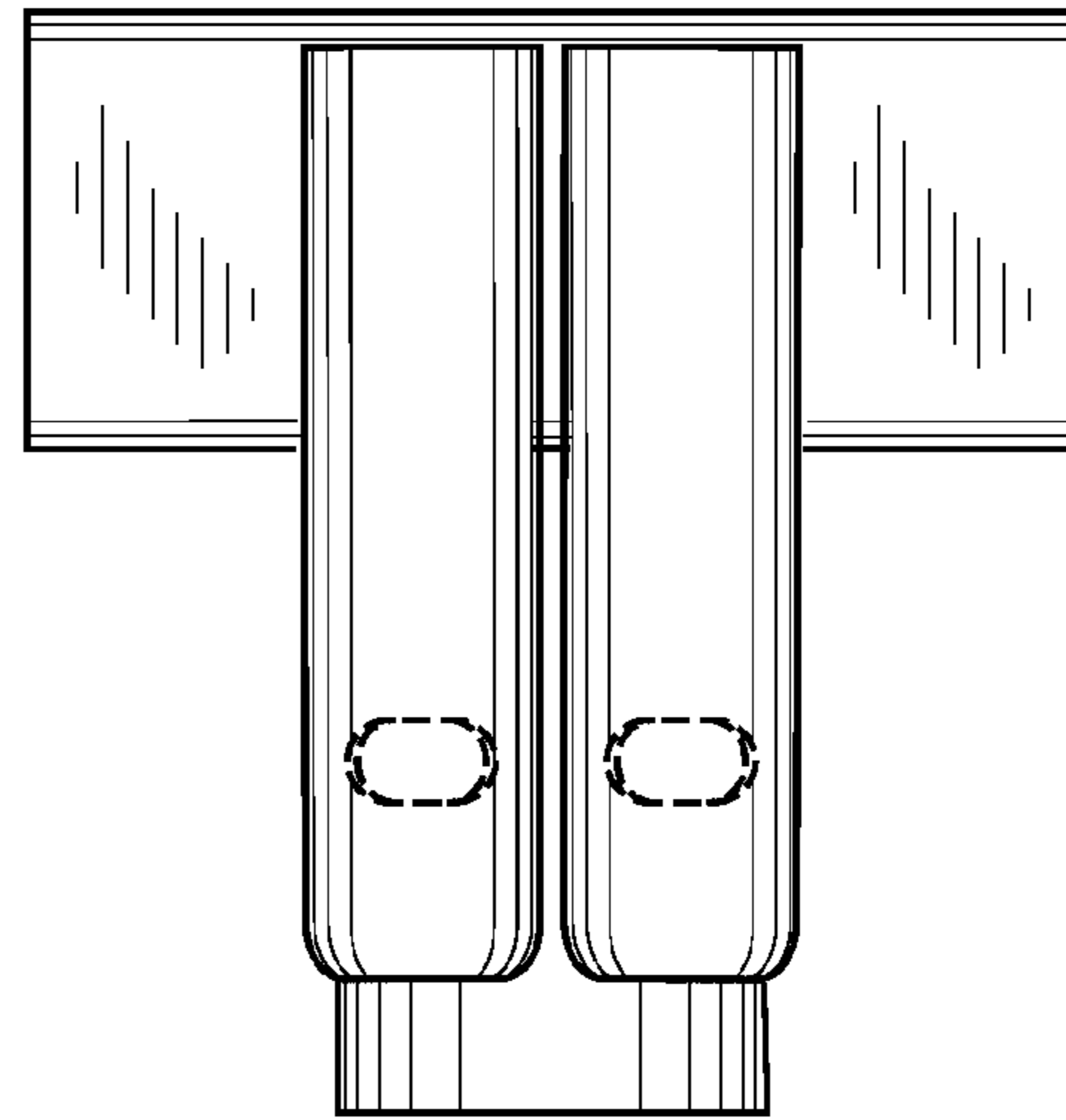


FIG. 2

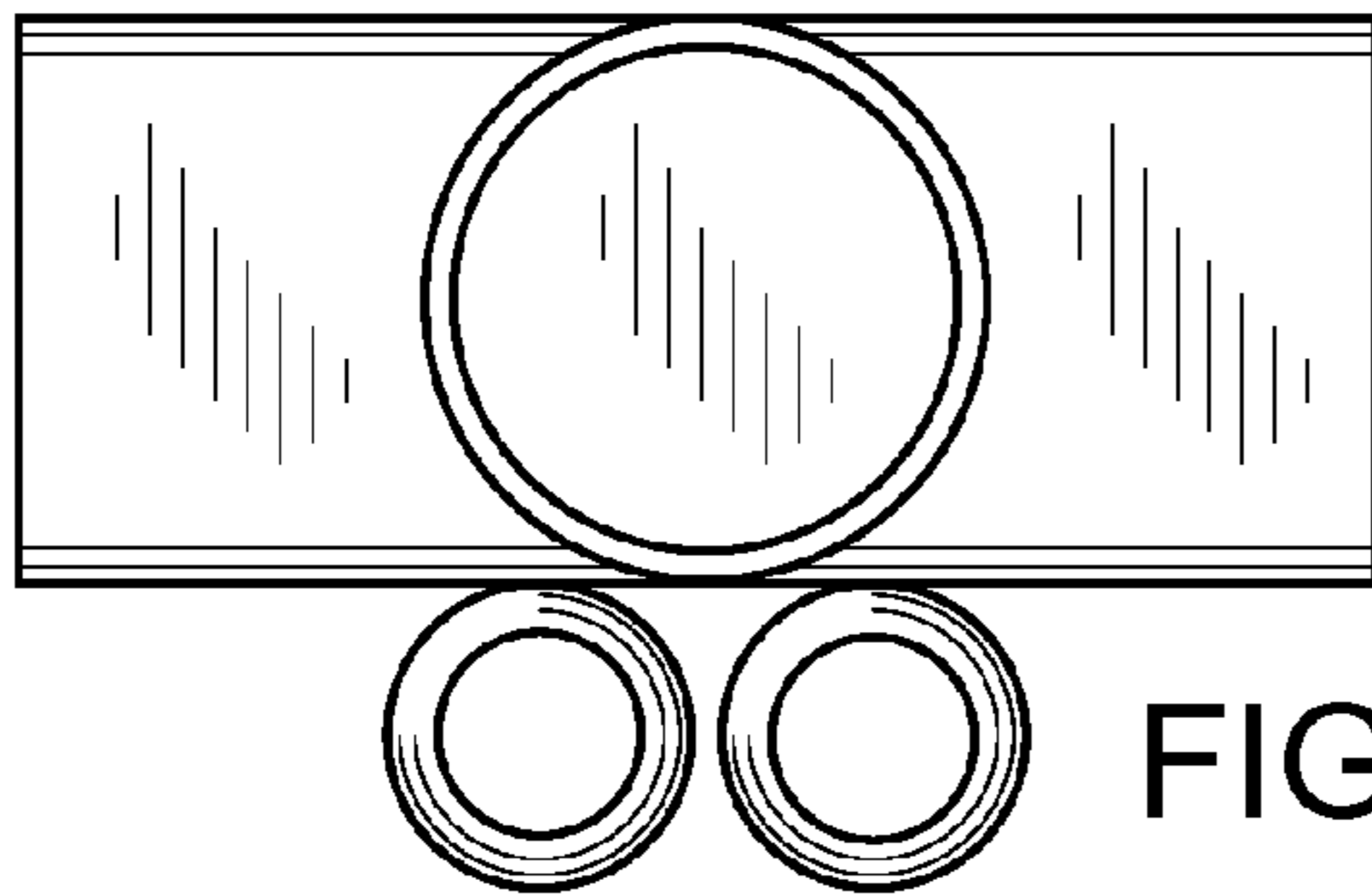


FIG. 3

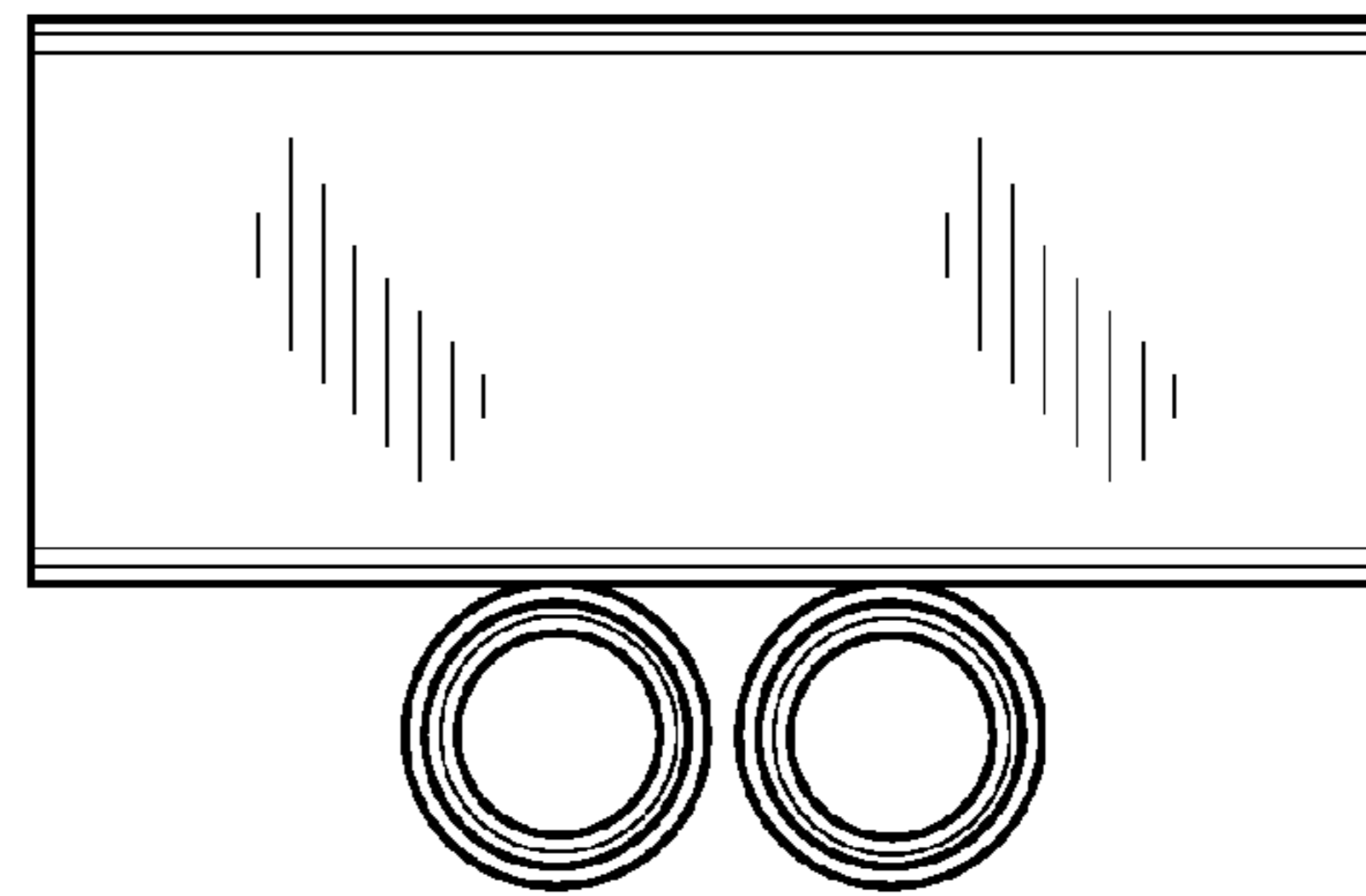


FIG. 4

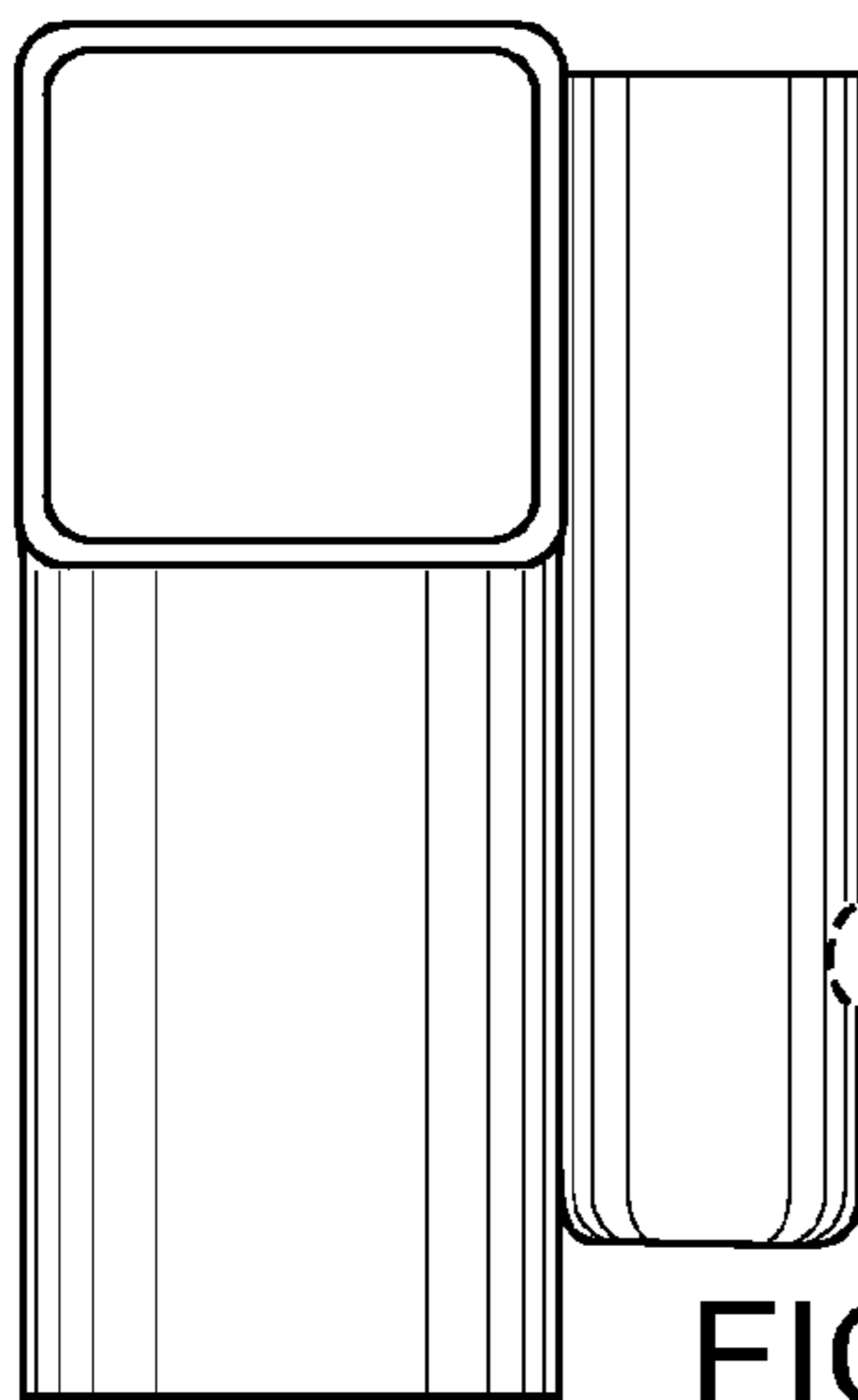


FIG. 5

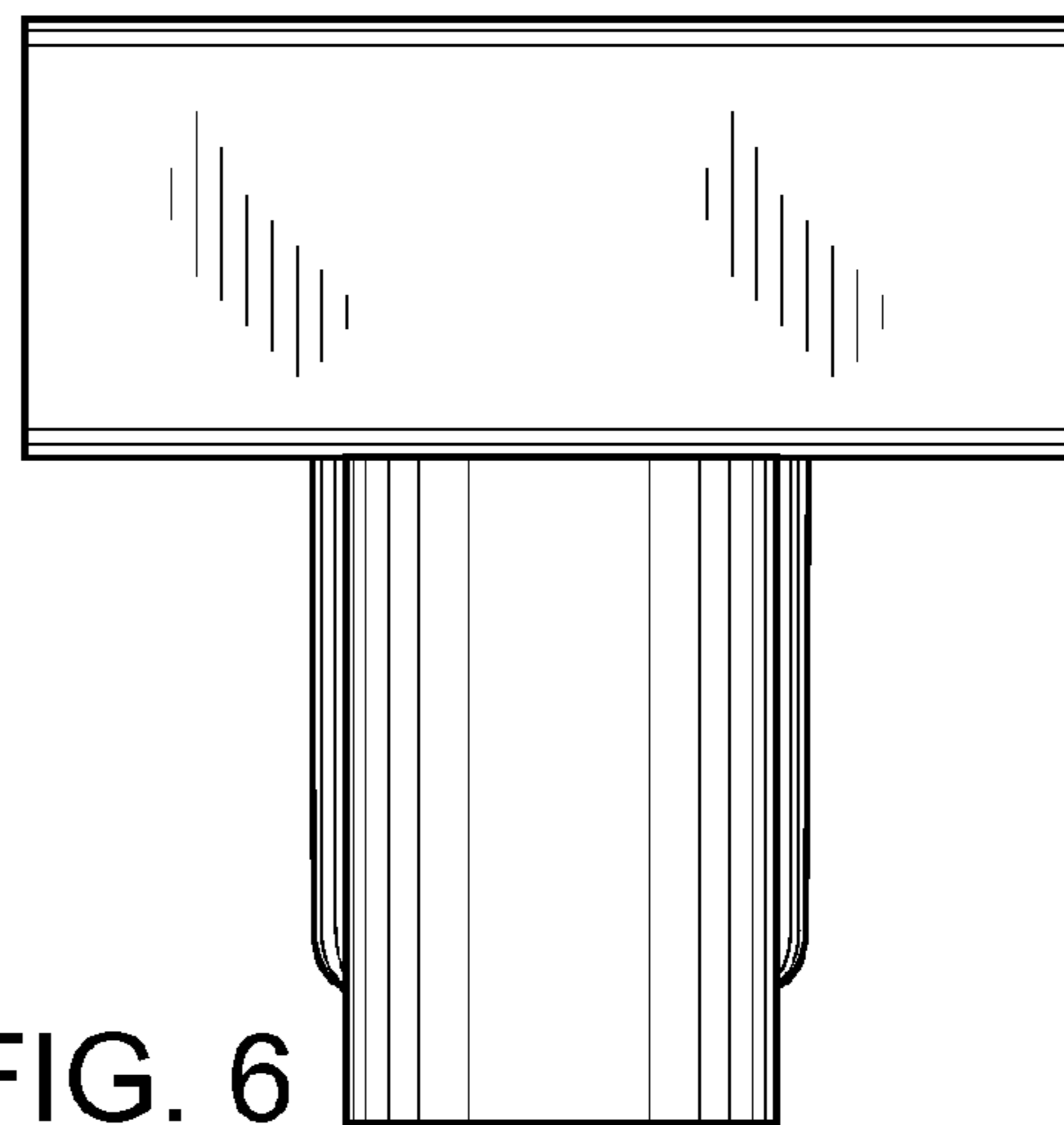


FIG. 6