



US00D650319S

(12) **United States Design Patent**
Tureaud et al.

(10) **Patent No.:** **US D650,319 S**
(45) **Date of Patent:** **** Dec. 13, 2011**

(54) **APPARATUS FOR MECHANICALLY GUIDING A WATER VEHICLE THAT IS BEING RELEASED OR RETRIEVED**

D291,299 S 8/1987 Hawkes
D292,870 S 11/1987 Carbone
4,705,331 A 11/1987 Britton
D304,923 S 12/1989 Pado
D308,851 S 6/1990 Templeman

(Continued)

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

(21) Appl. No.: **29/376,767**

(22) Filed: **Oct. 12, 2010**

Related U.S. Application Data

(62) Division of application No. 29/315,638, filed on Jul. 13, 2009, now Pat. No. Des. 630,994.

(51) **LOC (9) Cl.** **12-06**

(52) **U.S. Cl.** **D12/317**

(58) **Field of Classification Search** D12/106,
D12/317, 318, 223; D8/354; 114/219, 230.1,
114/230.15–230.19, 230.2, 242, 249–254,
114/256, 258, 259, 313, 368, 344; 116/228;
280/414.4; 414/534

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,466,798 A 9/1969 Speers et al.
D217,744 S 6/1970 Peterson et al.
3,647,253 A 3/1972 Hettinger et al.
3,650,234 A 3/1972 Goudy
3,734,321 A 5/1973 Long et al.
D242,615 S 12/1976 Henning
4,209,279 A 6/1980 Aasen
D290,108 S 6/1987 Wolfe

OTHER PUBLICATIONS

Vehicle Control Technologies, Inc., "STTR Proposal No. N08A-016-0269—Expendable Glider for Oceanographic Research", Mar. 18, 2008, pp. 3-25, see specifically p. 20.

(Continued)

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(57) **CLAIM**

The ornamental design for an apparatus for mechanically guiding a water vehicle that is being released or retrieved, as shown and described.

DESCRIPTION

The present invention was made with Government support under STTR Program Contract No. N07-037 awarded by the United States Navy. The Government has certain rights in the invention.

FIG. 1 is a top perspective view of an apparatus for mechanically guiding a water vehicle that is being released or retrieved in accordance with the present invention;

FIG. 2 is a top plan view of the apparatus of FIG. 1;

FIG. 3 is a right elevation view of the apparatus of FIG. 1;

FIG. 4 is a left elevation view of the apparatus of FIG. 1;

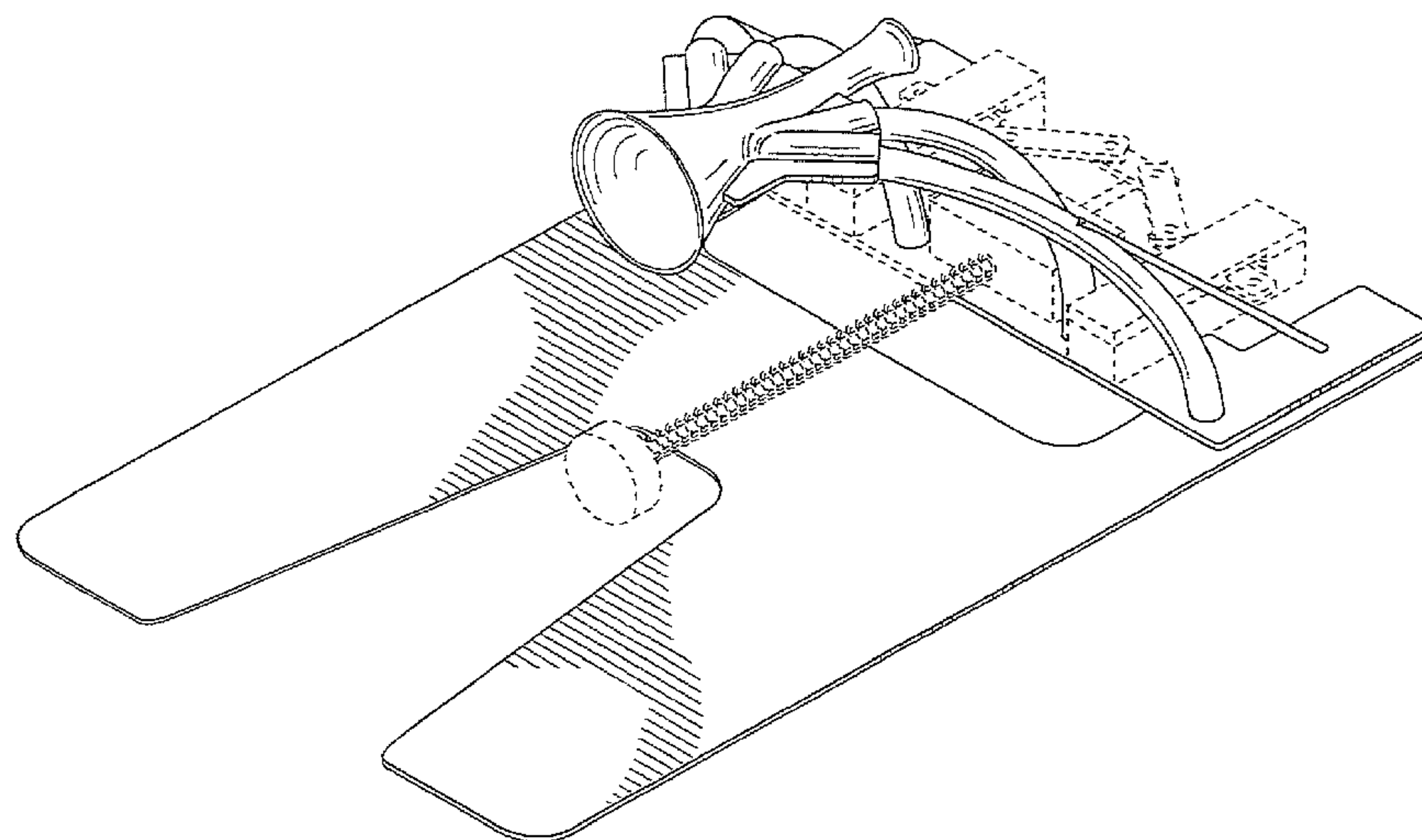
FIG. 5 is a front elevation view of the apparatus of FIG. 1;

FIG. 6 is a rear elevation view of the apparatus of FIG. 1; and,

FIG. 7 is another perspective view of the apparatus of FIG. 1.

The broken lines shown are included for the purpose of illustrating the unclaimed portions of the article and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



US D650,319 S

U.S. PATENT DOCUMENTS

5,048,449	A	9/1991	Templeman			
D323,808	S	2/1992	DeSantis			
5,113,702	A	5/1992	Capps			
5,120,099	A	6/1992	Fletcher			
D328,732	S	8/1992	Whitley, II			
5,138,966	A	8/1992	Whitley, II			
5,158,034	A	10/1992	Hsu			
D331,738	S	12/1992	Simpson			
5,188,054	A	2/1993	Jacobs, Jr.			
5,307,754	A	5/1994	Leonardis			
5,320,057	A	6/1994	Dourlain			
D350,326	S	9/1994	Griffin			
D352,023	S	11/1994	Corn			
5,396,860	A	3/1995	Cheng			
D363,914	S	11/1995	Corn			
D371,411	S	7/1996	Albritton			
5,568,783	A	10/1996	Ditchfield			
5,655,939	A	8/1997	Garrido Salvadores			
5,686,694	A	11/1997	Hillenbrand et al.			
5,704,817	A	1/1998	Vaughn			
D390,618	S	2/1998	Wilson			
5,713,293	A	2/1998	Shiffler et al.			
D394,633	S	5/1998	Gauthier et al.			
5,786,545	A	7/1998	Hillenbrand			
D400,624	S	11/1998	Hornsby et al.			
5,911,189	A	6/1999	Ryan			
5,970,546	A	10/1999	Danis			
6,145,462	A *	11/2000	Aquino	114/253		
6,178,914	B1 *	1/2001	Axelsson	114/368		
6,199,503	B1	3/2001	Midgett			
D440,619	S	4/2001	Chiang			
6,359,834	B1	3/2002	English			
6,390,012	B1	5/2002	Watt et al.			
6,390,761	B1	5/2002	Palmer, Jr. et al.			
6,419,292	B1	7/2002	Calcote et al.			
6,431,105	B2 *	8/2002	Haram	114/259		
D466,175	S	11/2002	Katz et al.			
6,558,104	B1	5/2003	Vlaanderen et al.			
6,600,695	B1	7/2003	Nugent et al.			
6,641,353	B2	11/2003	Oliver			
D487,245	S	3/2004	Geriene et al.			
6,738,314	B1	5/2004	Teeter et al.			
D492,242	S	6/2004	Geriene et al.			
6,766,745	B1	7/2004	Kuklinski et al.			
6,779,475	B1	8/2004	Crane et al.			
6,840,188	B1 *	1/2005	Witbeck	114/258		
D505,104	S	5/2005	Osumi et al.			
6,969,030	B1	11/2005	Jones et al.			
7,000,560	B2	2/2006	Wingett et al.			
7,010,401	B1	3/2006	Richburg et al.			
7,013,822	B2	3/2006	Gencarelli			
7,021,231	B2	4/2006	Smart			
7,051,664	B2	5/2006	Robichaud et al.			
7,104,505	B2	9/2006	Tchoryk et al.			
D533,497	S	12/2006	Templeman			
7,156,036	B2	1/2007	Seiple			
D537,142	S	2/2007	Eagan			
D549,297	S	8/2007	Eagan			
D560,264	S	1/2008	Nakpodia			
7,377,592	B2	5/2008	Kraenzle			
D573,220	S	7/2008	Nakpodia			
D573,935	S	7/2008	Tureaud et al.			
D573,937	S	7/2008	Tureaud et al.			
D578,463	S	10/2008	Tureaud et al.			
D580,341	S	11/2008	Tureaud et al.			
7,581,507	B2 *	9/2009	Kern	114/259		
7,699,015	B1 *	4/2010	Said	114/253		
D630,994	S *	1/2011	Tureaud et al.	D12/317		
2001/0025594	A1	10/2001	Daniels			
2002/0152945	A1	10/2002	Geriene et al.			
2002/0164239	A1	11/2002	Angermeier			
2005/0257731	A1 *	11/2005	Bouchaud et al.	114/313		

OTHER PUBLICATIONS

Bondaryk et al. (presumably), "Automated Launch and Recovery of UUVs and Towed Assets from USSV", date is before Nov. 1, 2007, pp. 1-5/Frames 1-20, Brooke Ocean Technology Ltd.
 Utility U.S. Appl. No. 11/982,041, filed Nov. 1, 2007; In re: Thomas F. Tureaud et al., entitled "Docking Apparatuses and Methods".
 Utility U.S. Appl. No. 12/460,048, filed Jul. 13, 2009; In re: Thomas F. Tureaud et al., entitled "Launch and Recovery Systems and Methods".
 Notice of Allowability for U.S. Appl. No. 29/315,638, filed Jul. 13, 2009; In re: Tureaud et al., entitled Apparatus for Mechanically Guiding a Water Vehicle That is Being Released or Retrieved.
 Payment of Issue Fee for U.S. Appl. No. 29/315,638, filed Jul. 13, 2009; In re: Tureaud et al., entitled Apparatus for Mechanically Guiding a Water Vehicle That is Being Released or Retrieved.

* cited by examiner

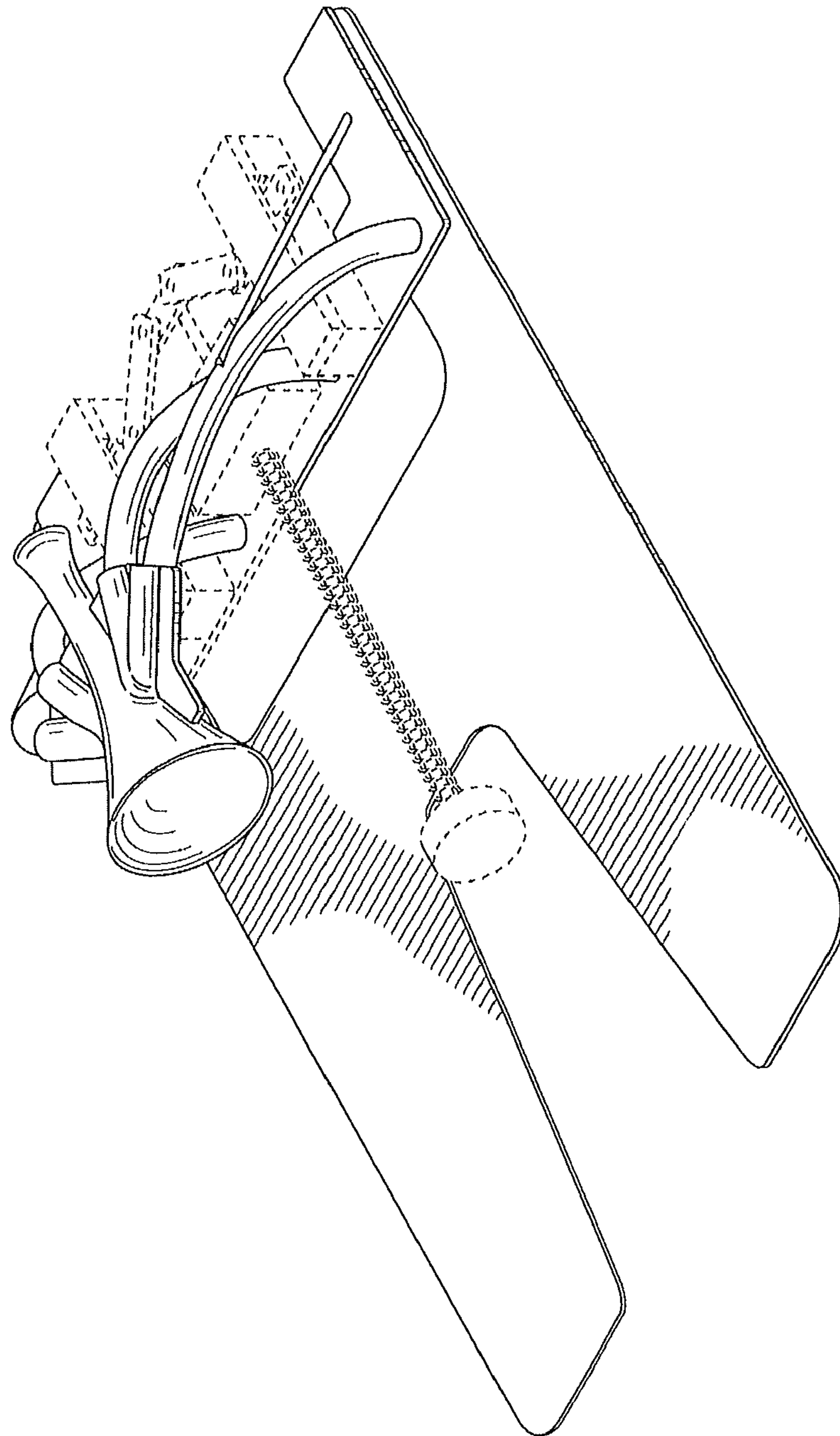


FIG. 1

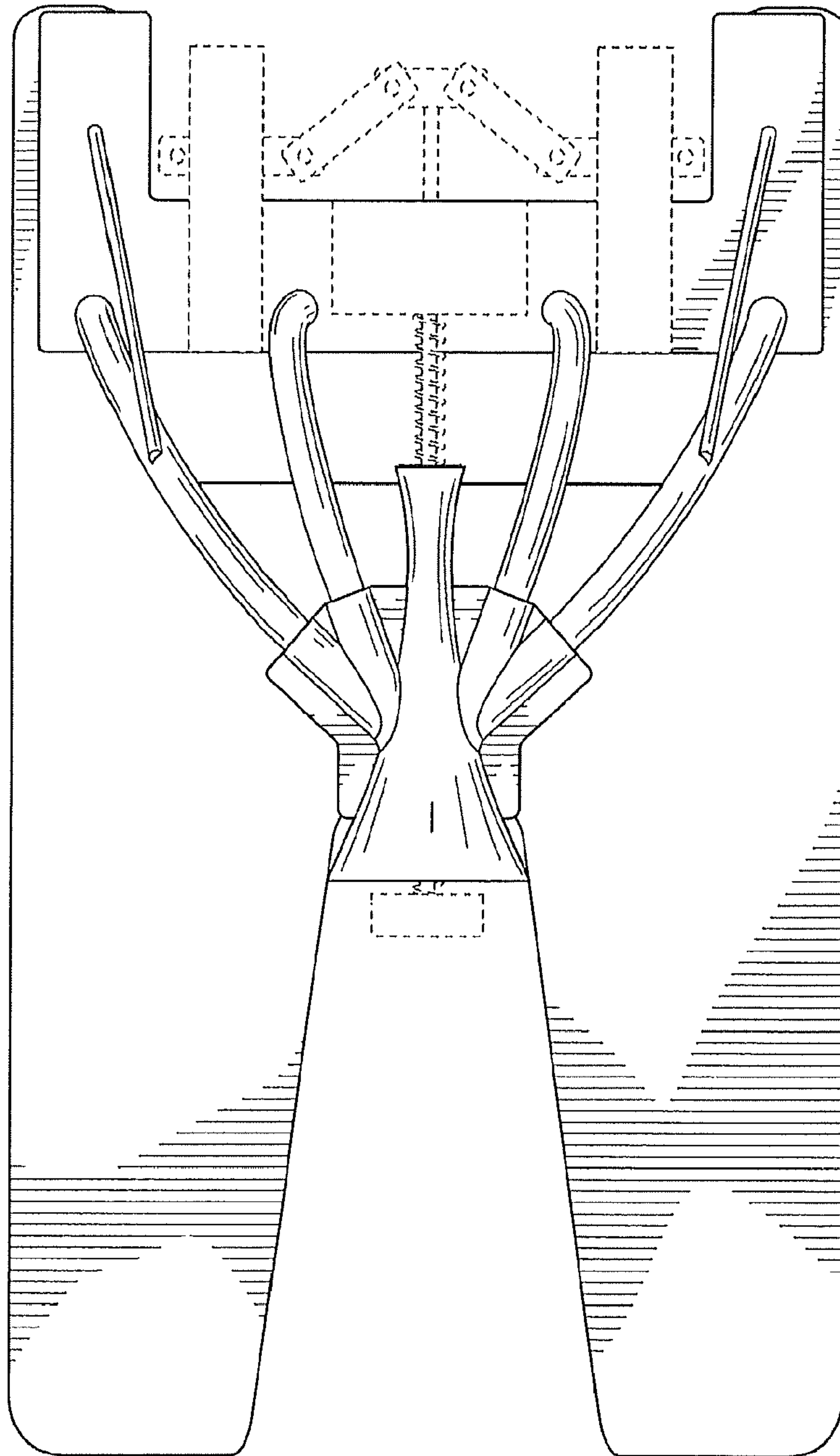


FIG. 2

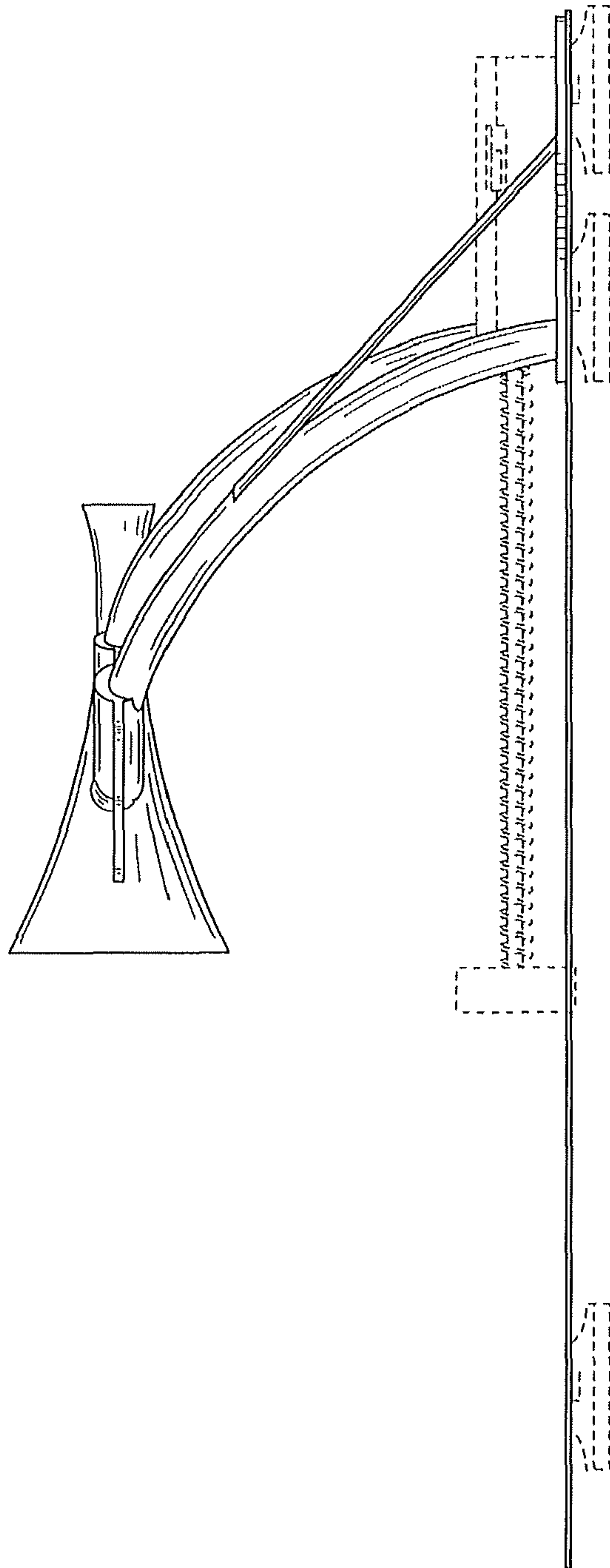


FIG. 3

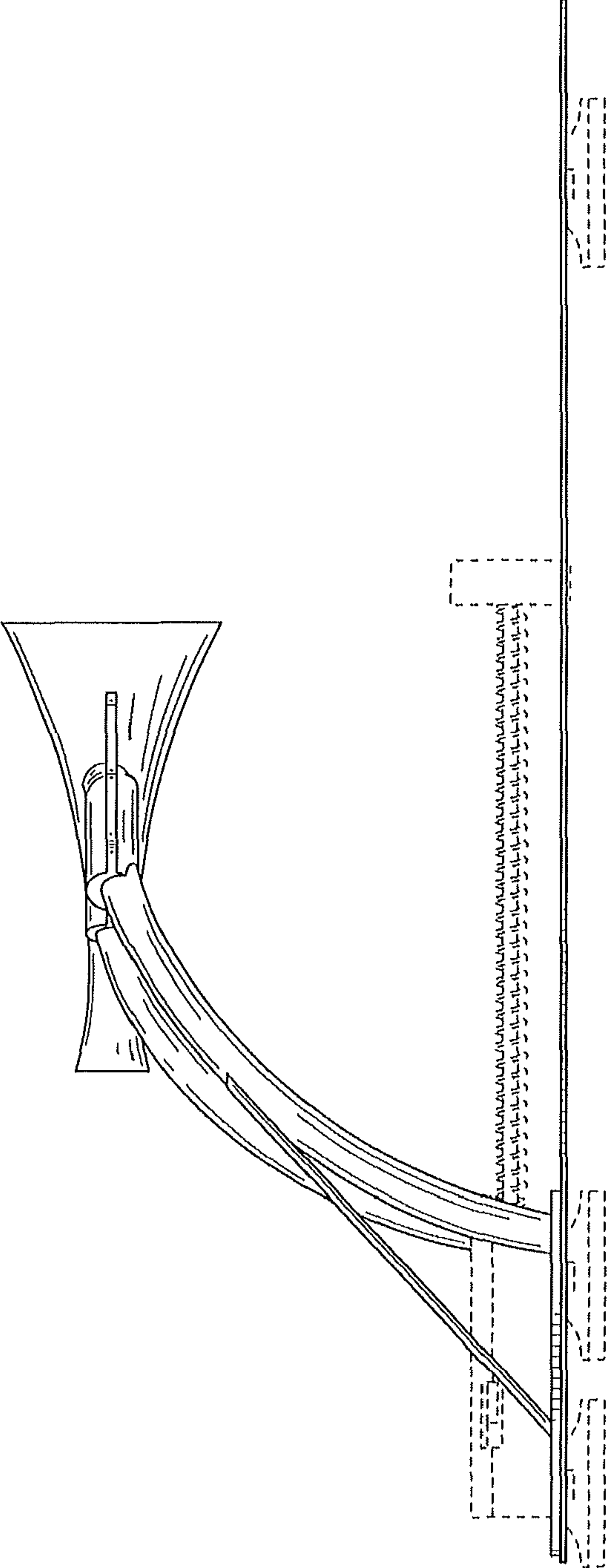


FIG. 4

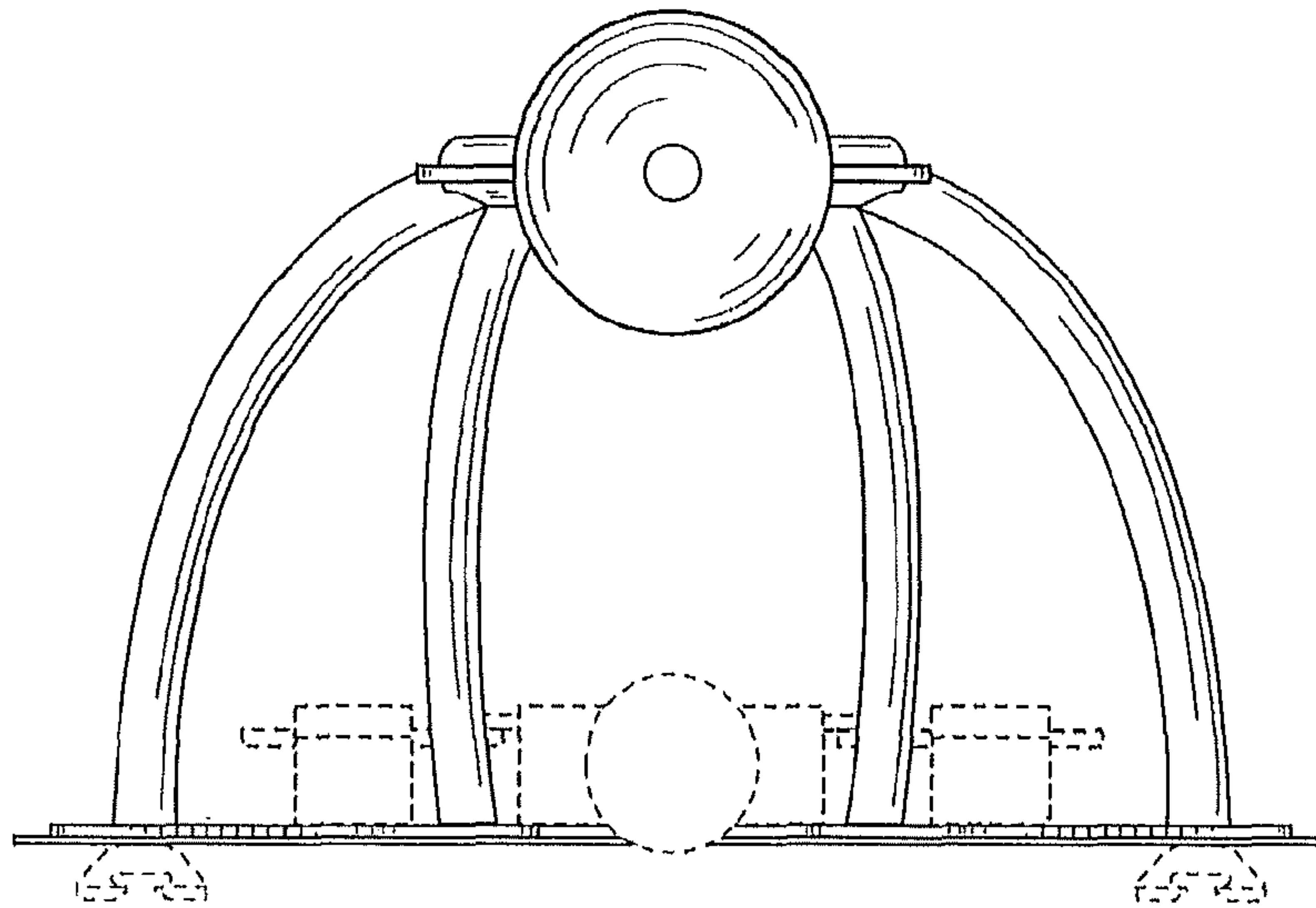


FIG. 5

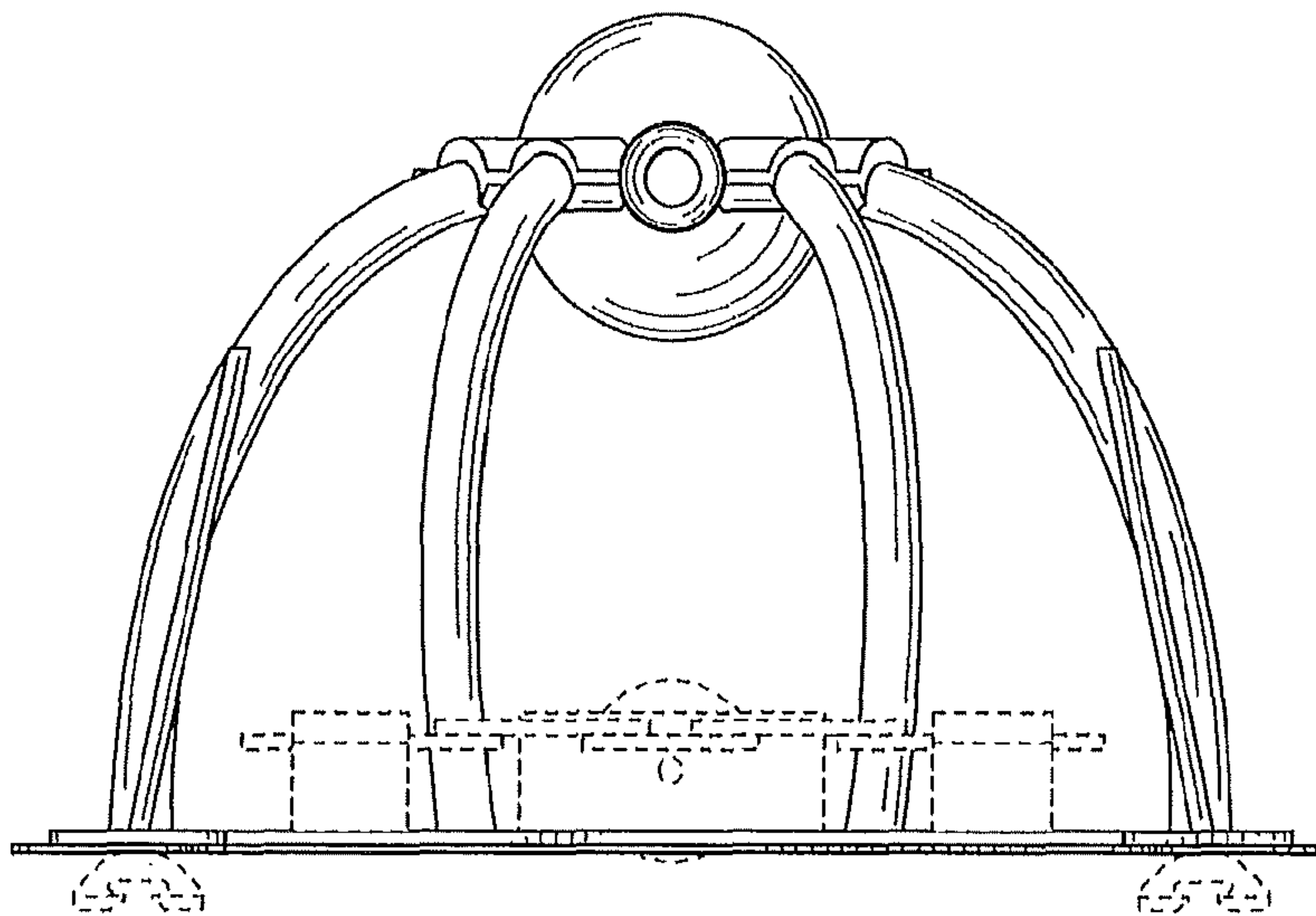


FIG. 6

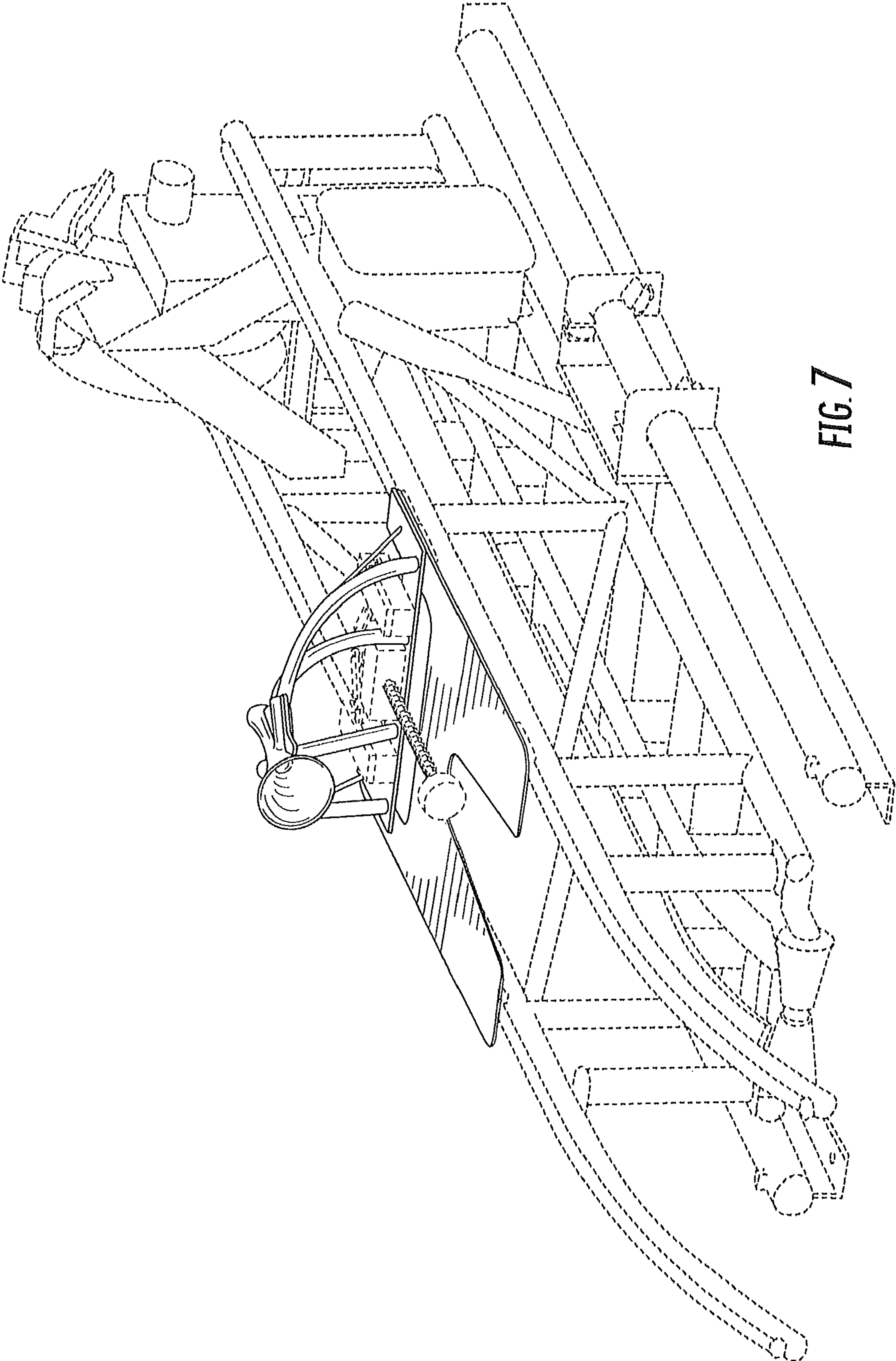


FIG. 7