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(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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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)

(73) Assignee: **Vehicle Control Technologies, Inc.**,
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(**) Term: **14 Years**

Primary Examiner — Cynthia M Chin

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

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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.

Related U.S. Application Data

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

DESCRIPTION

(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.

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.

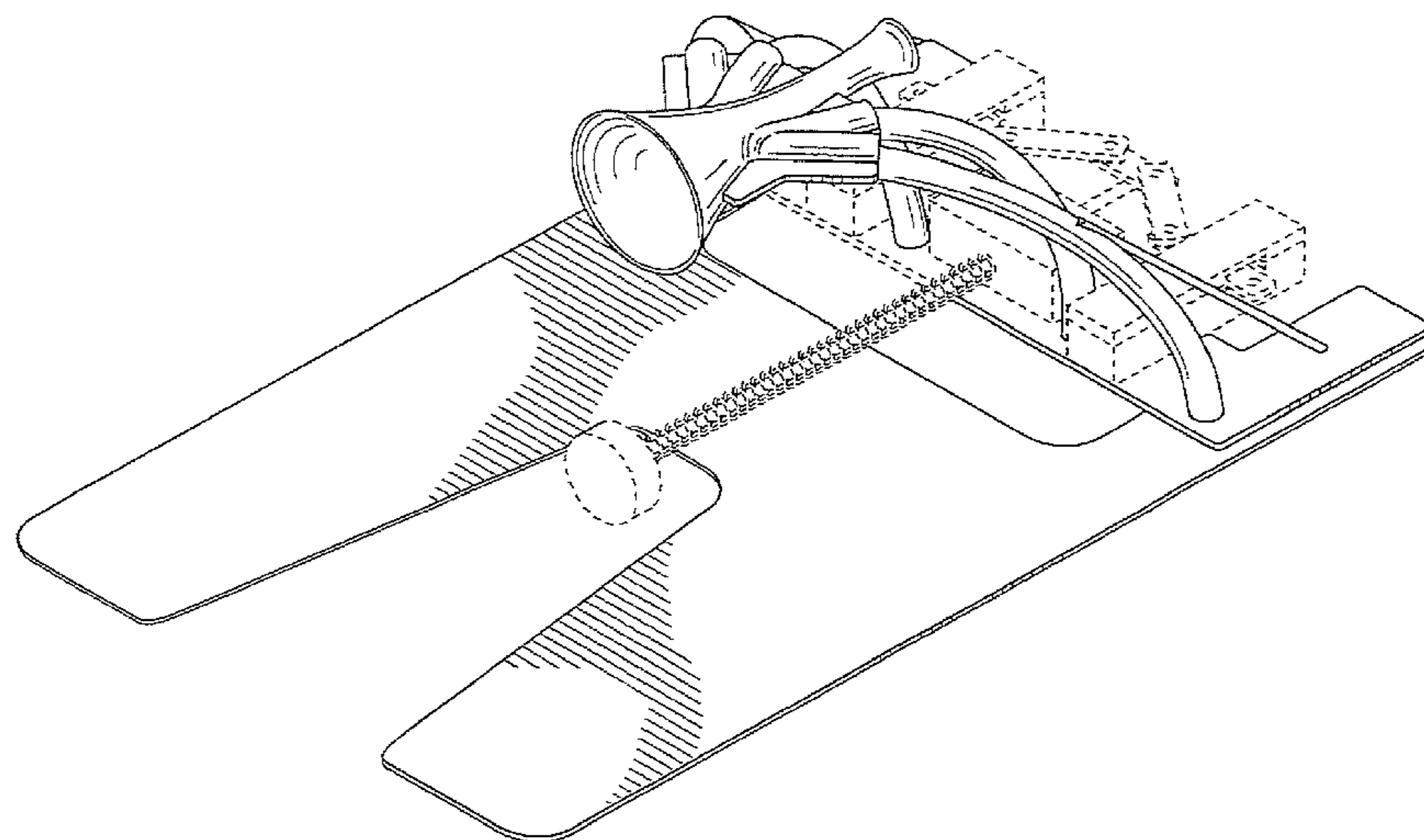
The broken lines shown are included for the purpose of illustrating the unclaimed portions of the article and form no part of the claimed design.

(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

1 Claim, 6 Drawing Sheets



US D650,319 S

U.S. PATENT DOCUMENTS

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

* cited by examiner

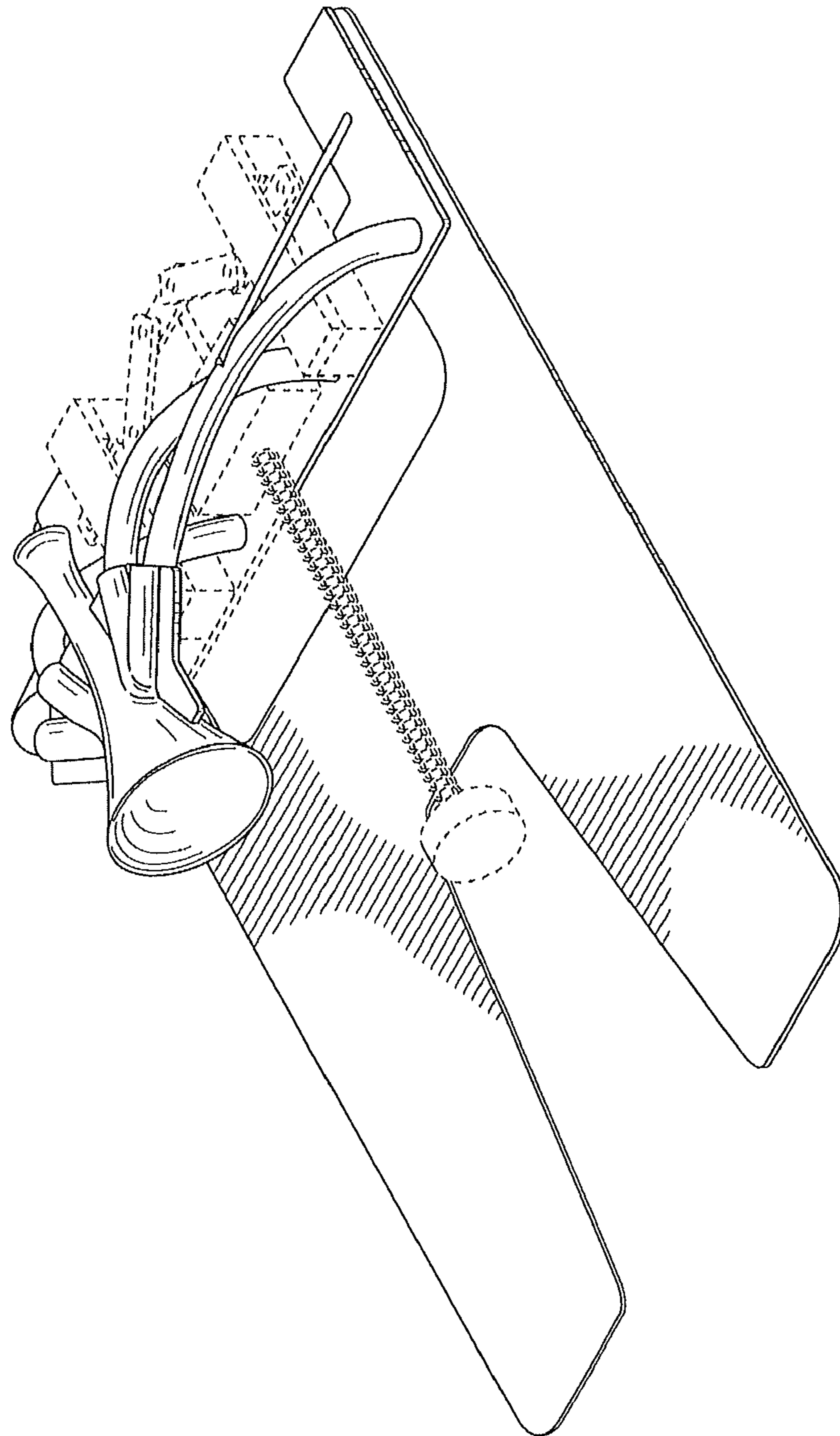


FIG. 1

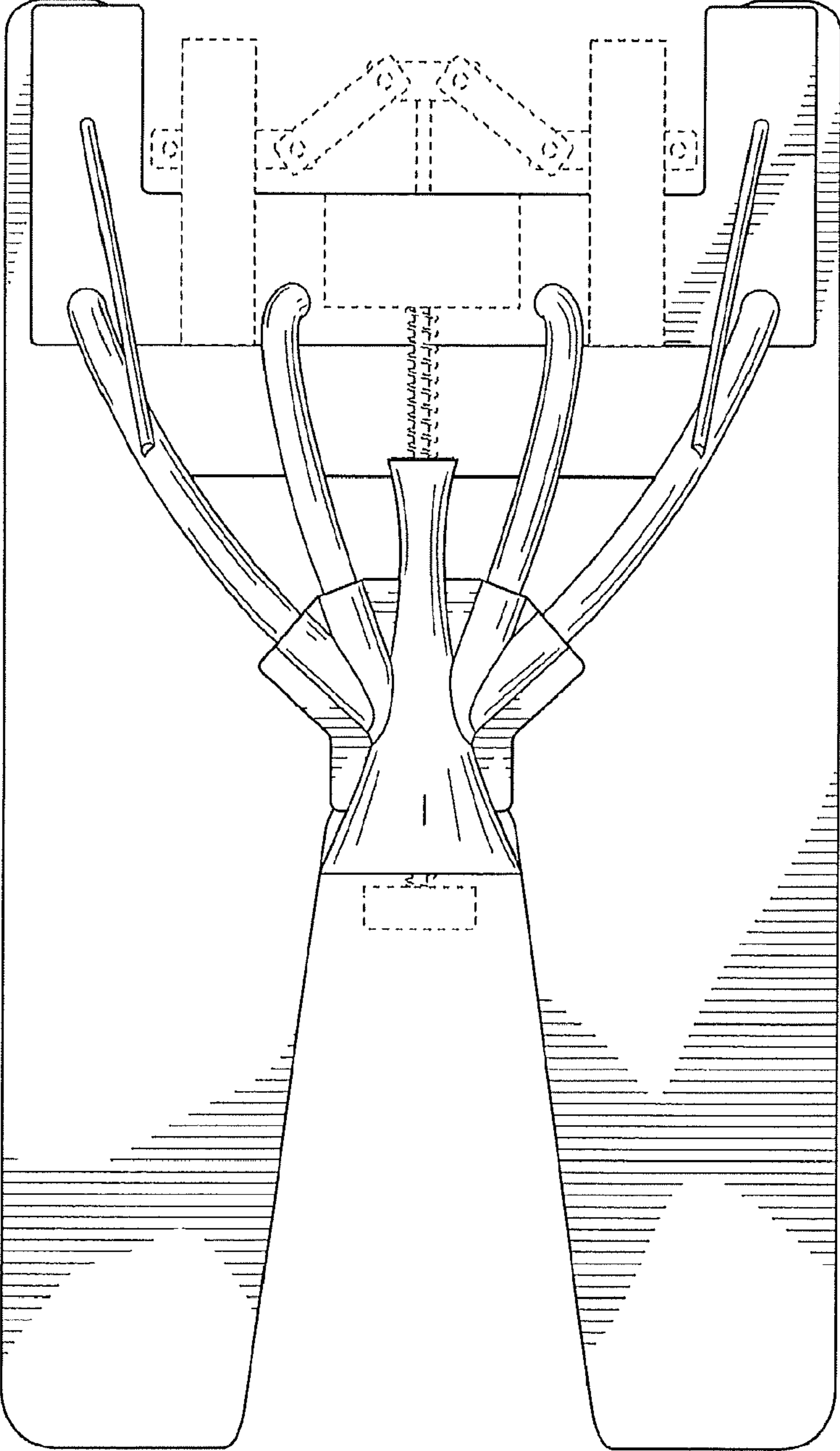


FIG. 2

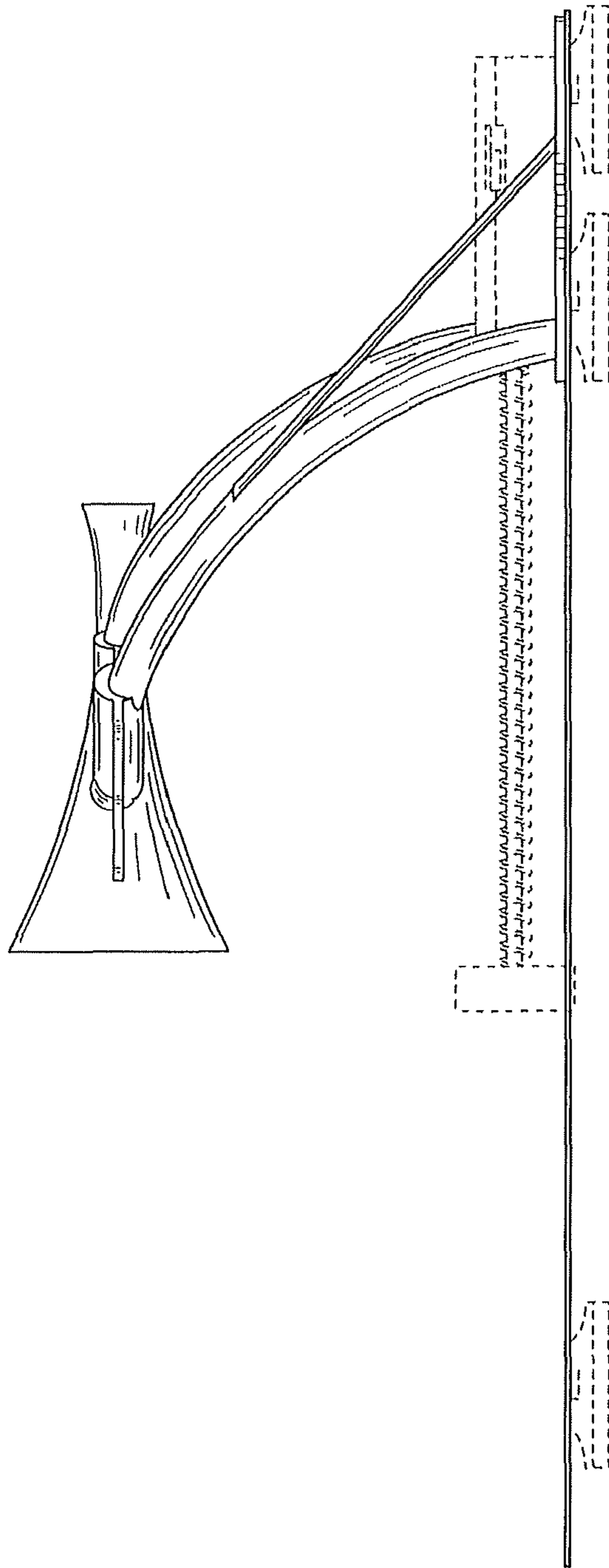


FIG. 3

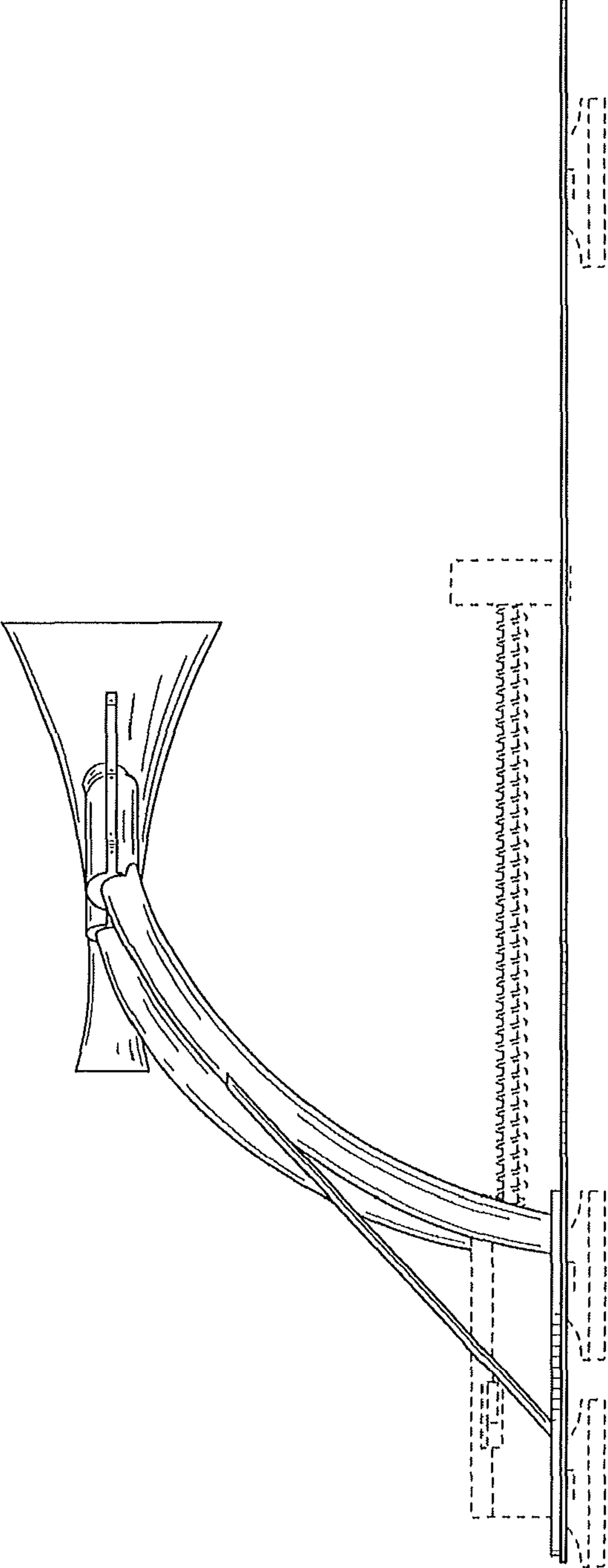


FIG. 4

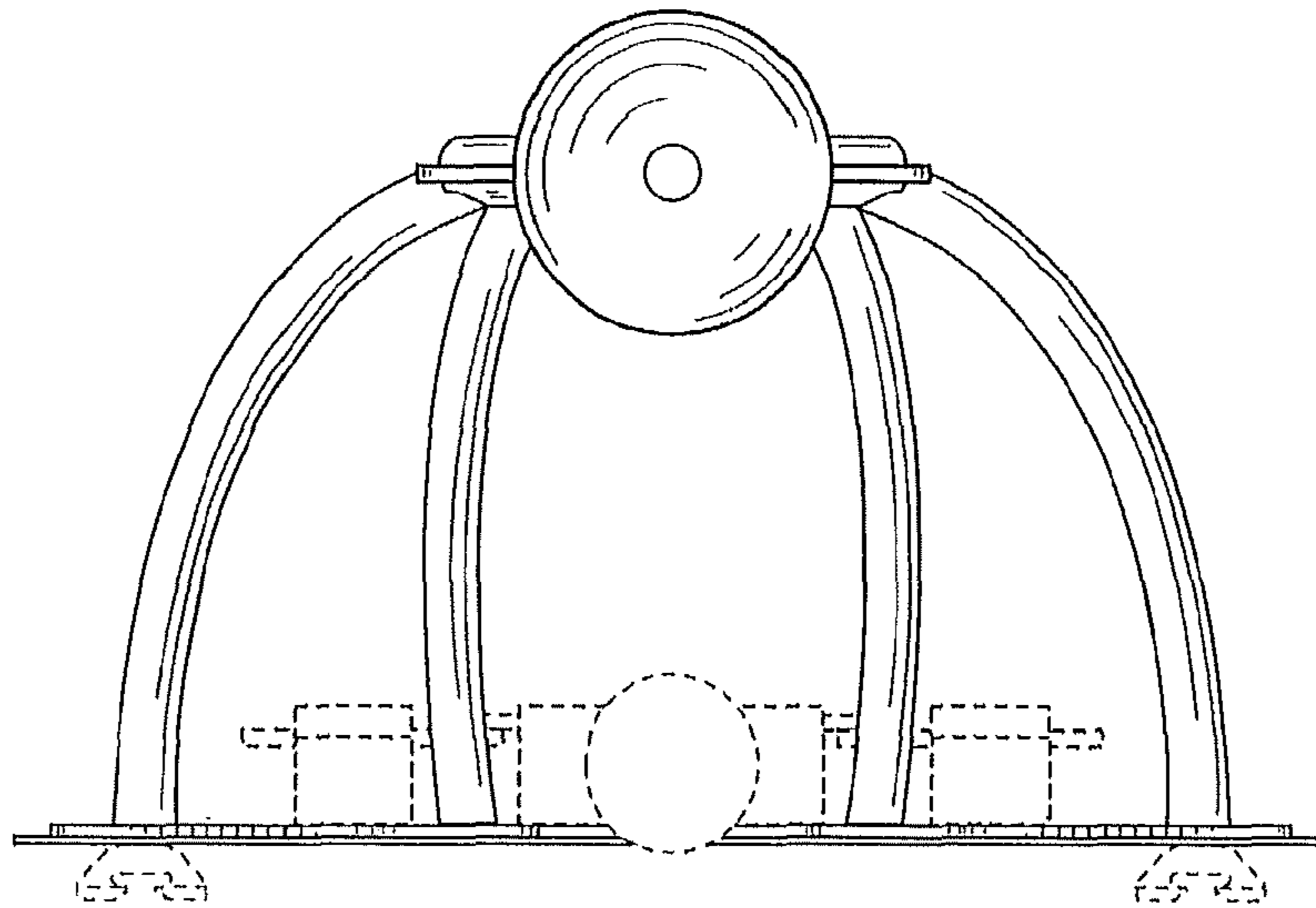


FIG. 5

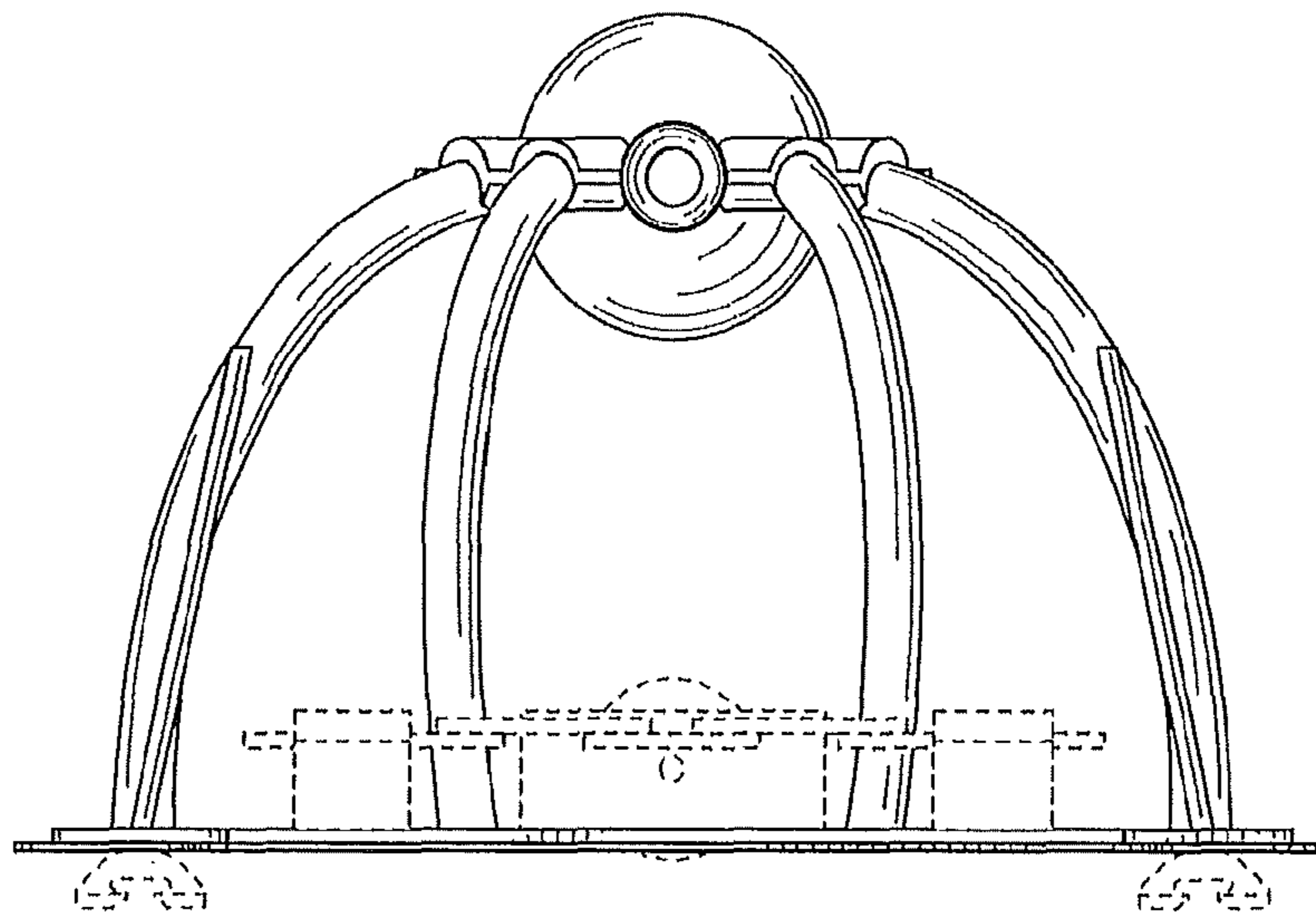


FIG. 6

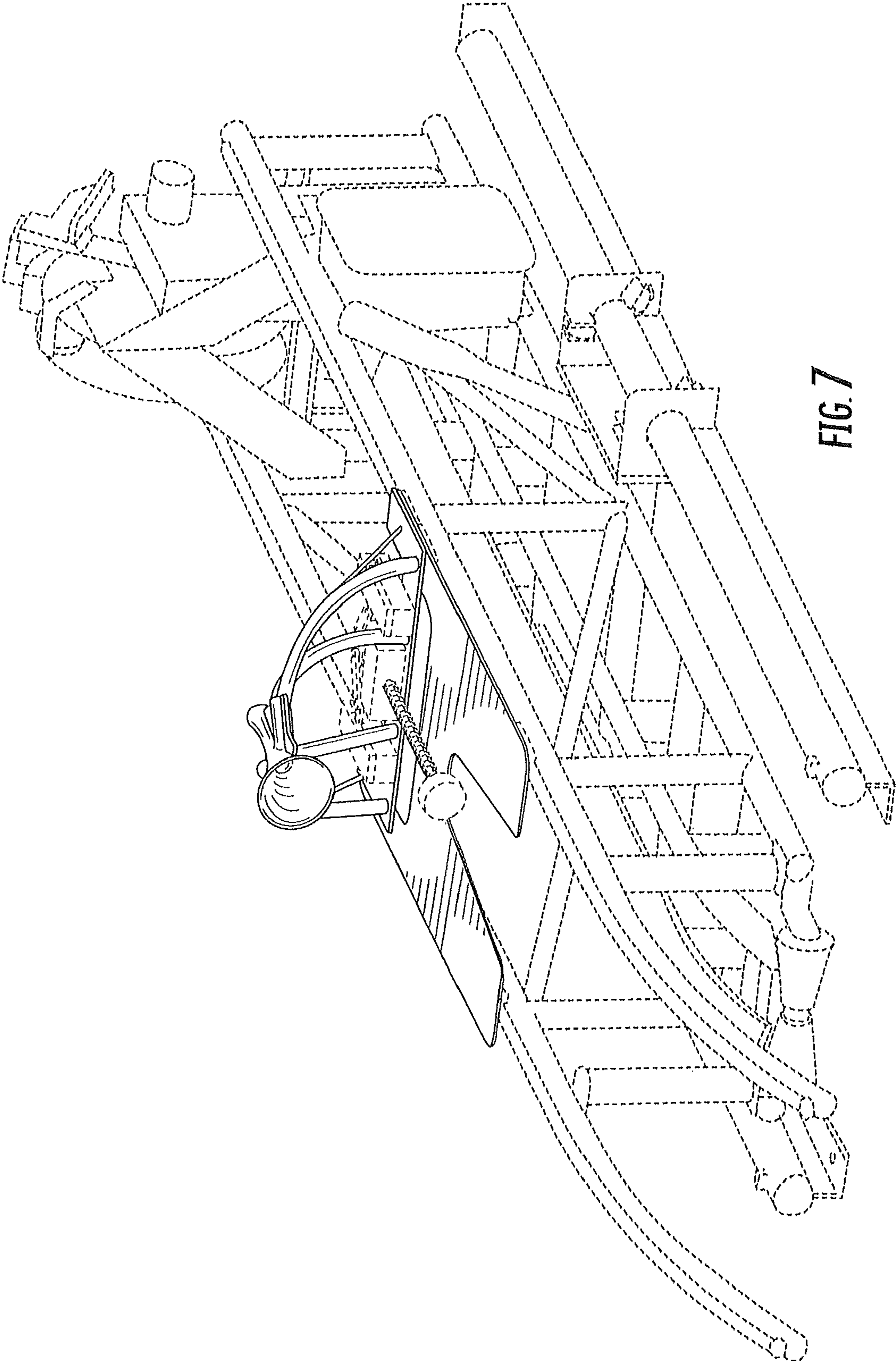


FIG. 7