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

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(54) **ANTENNA TIP-OVER MOUNT**

(75) Inventors: **John J. Schmitz**, Macomb, MI (US);
Robert G. Washburn, Sterling Heights,
MI (US)

(73) Assignee: **The United States of America as
represented by the Secretary of the
Army**, Washington, DC (US)

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

(21) Appl. No.: **29/317,261**

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(51) **LOC (9) Cl.** **14-03**

(52) **U.S. Cl.** **D14/238**

(58) **Field of Classification Search** D14/230–238;
D10/104; 343/888, 805, 882, 872, 873, 878,
343/793, 741

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

378,809	A	2/1888	Stowell	
3,774,221	A	11/1973	Francis	
3,928,952	A	12/1975	Whyte	
4,101,897	A	7/1978	Morrison	
4,490,726	A	12/1984	Weir	
4,663,635	A *	5/1987	Wu	343/765
5,252,985	A	10/1993	Christinsin	
5,506,593	A	4/1996	Peng	
5,929,817	A *	7/1999	Clark	343/713
6,348,899	B1	2/2002	Bergstein	
6,450,464	B1 *	9/2002	Thomas	248/168
6,484,987	B2 *	11/2002	Weaver	248/278.1
6,577,281	B2 *	6/2003	Yamamoto et al.	343/766
6,791,501	B2	9/2004	Maeda et al.	
6,906,673	B1 *	6/2005	Matz et al.	343/760
7,259,724	B2 *	8/2007	Young et al.	343/765
7,268,743	B2 *	9/2007	Lin	343/880
7,408,526	B2 *	8/2008	Pan	343/880
2001/0028327	A1 *	10/2001	Yamamoto et al.	343/757
2002/0135531	A1 *	9/2002	Ehrenberg et al.	343/878

2007/0052604	A1 *	3/2007	Young et al.	343/757
2007/0132655	A1 *	6/2007	Lin	343/880
2008/0165076	A1 *	7/2008	Pan	343/882

OTHER PUBLICATIONS

Previously Used Antennia Tip-over Mount, circa 2005.

* cited by examiner

Primary Examiner—T. Chase Nelson

Assistant Examiner—Ania K Dworzecka

(74) *Attorney, Agent, or Firm*—David L. Kuhn; Thomas W. Saur; Luis Miguel Acosta

(57) **CLAIM**

The ornamental design for an antenna tip-over mount, as shown and described.

DESCRIPTION

The invention described here may be made, used and licensed by and for the U.S. Government for governmental purposes without paying royalty to us.

FIG. 1 is a front, top, and left side perspective view of an antenna tip-over mount in accordance with the present invention wherein the mount in an un-tipped, upright position is illustrated;

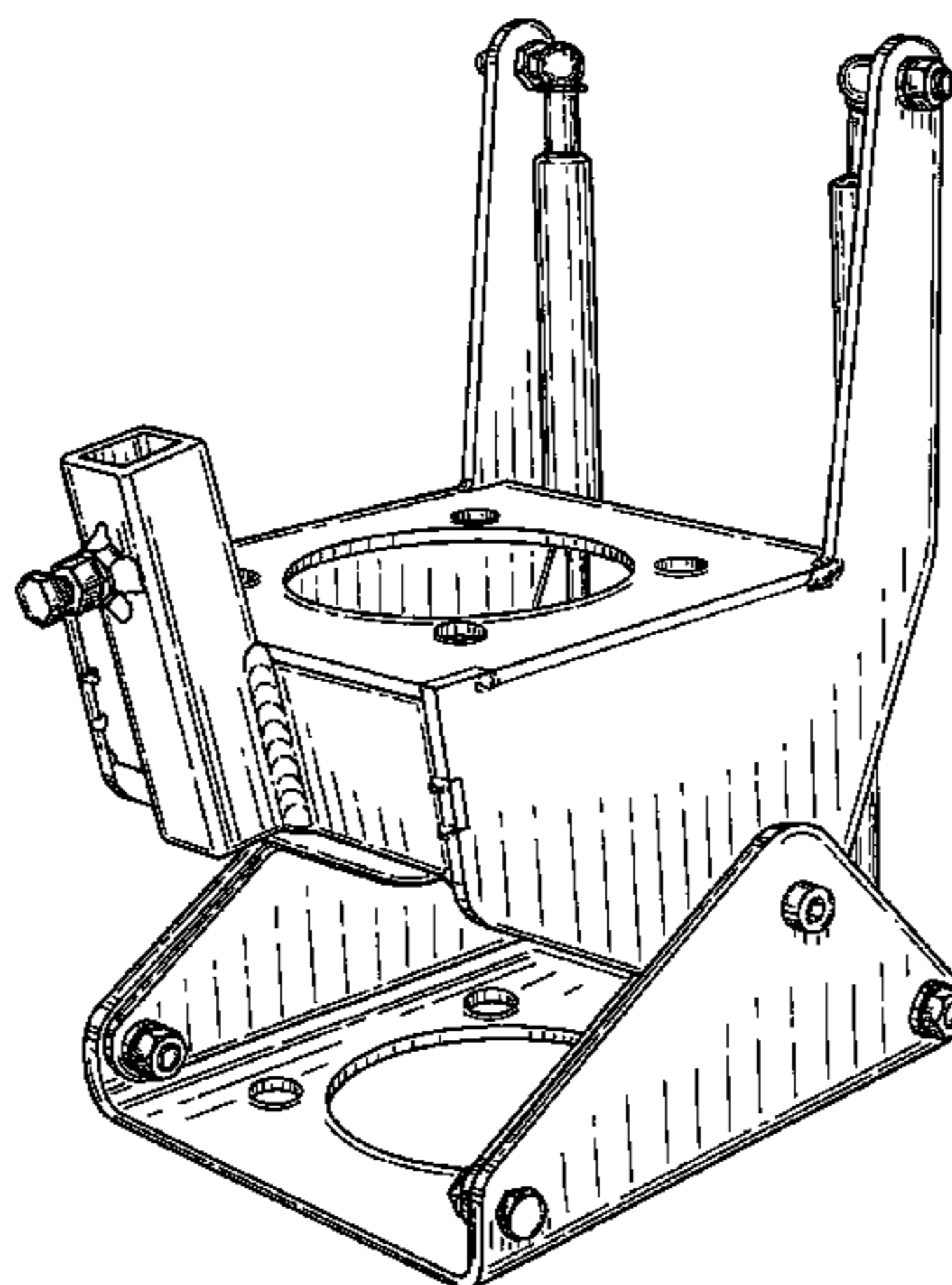
FIG. 2 is a front, top, and right side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position, and implemented in a typical vehicle environment is illustrated;

FIG. 3 is a rear, top, and left side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position is illustrated;

FIG. 4 is a rear, top, and right side perspective view of the antenna tip-over mount wherein the mount in a partially-tipped, intermediate tilted position is illustrated;

FIG. 5 is a rear, top, and right side perspective view of the antenna tip-over mount wherein the mount in a fully-tipped, completely tilted down position is illustrated;

FIG. 6 is a front, top, and left side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position, and an example of a multiple antenna array



attached to the top of the mount via two height extensions and a protector rod installed in the front of the mount is illustrated;

FIG. 7 is a front, top, and left side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position, and an example of a single large-bodied antenna attached to the top of the mount and the protector rod installed in the front of the mount is illustrated;

FIG. 8 is a front, top, and left side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position, and an example of a height extension attached to the base of the mount is illustrated;

FIG. 9 is a top plan view of the antenna tip-over wherein the mount in an un-tipped, upright position is illustrated;

FIGS. 10 is a bottom plan view of the antenna tip-over wherein the mount in an un-tipped, upright position is illustrated;

FIG. 11 is a front side elevation view of the antenna tip-over mount wherein the mount in an un-tipped, upright position is illustrated;

FIG. 12 is a rear side elevation view of the antenna tip-over mount wherein the mount in an un-tipped, upright position is illustrated;

FIG. 13 is a right side elevation view of the antenna tip-over mount wherein the mount in an un-tipped, upright position is illustrated; and,

FIG. 14 is a left side elevation view of the antenna tip-over mount wherein the mount in an un-tipped, upright position is illustrated.

The broken lines depict environmental structure illustrating the design in a variety of conditions of use. The broken lines and structure they depict form no part of the claimed design.

1 Claim, 14 Drawing Sheets

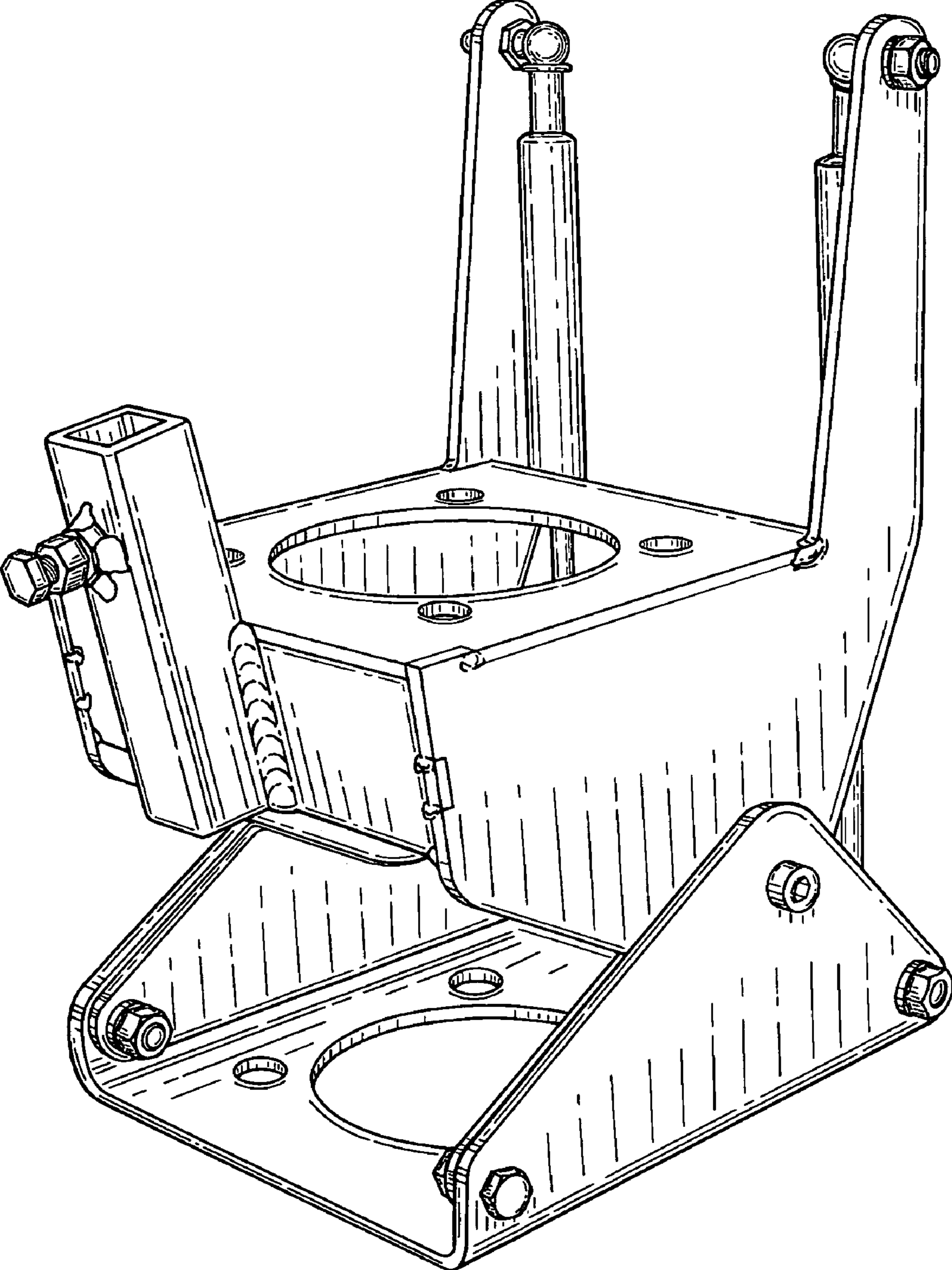


Fig. 1

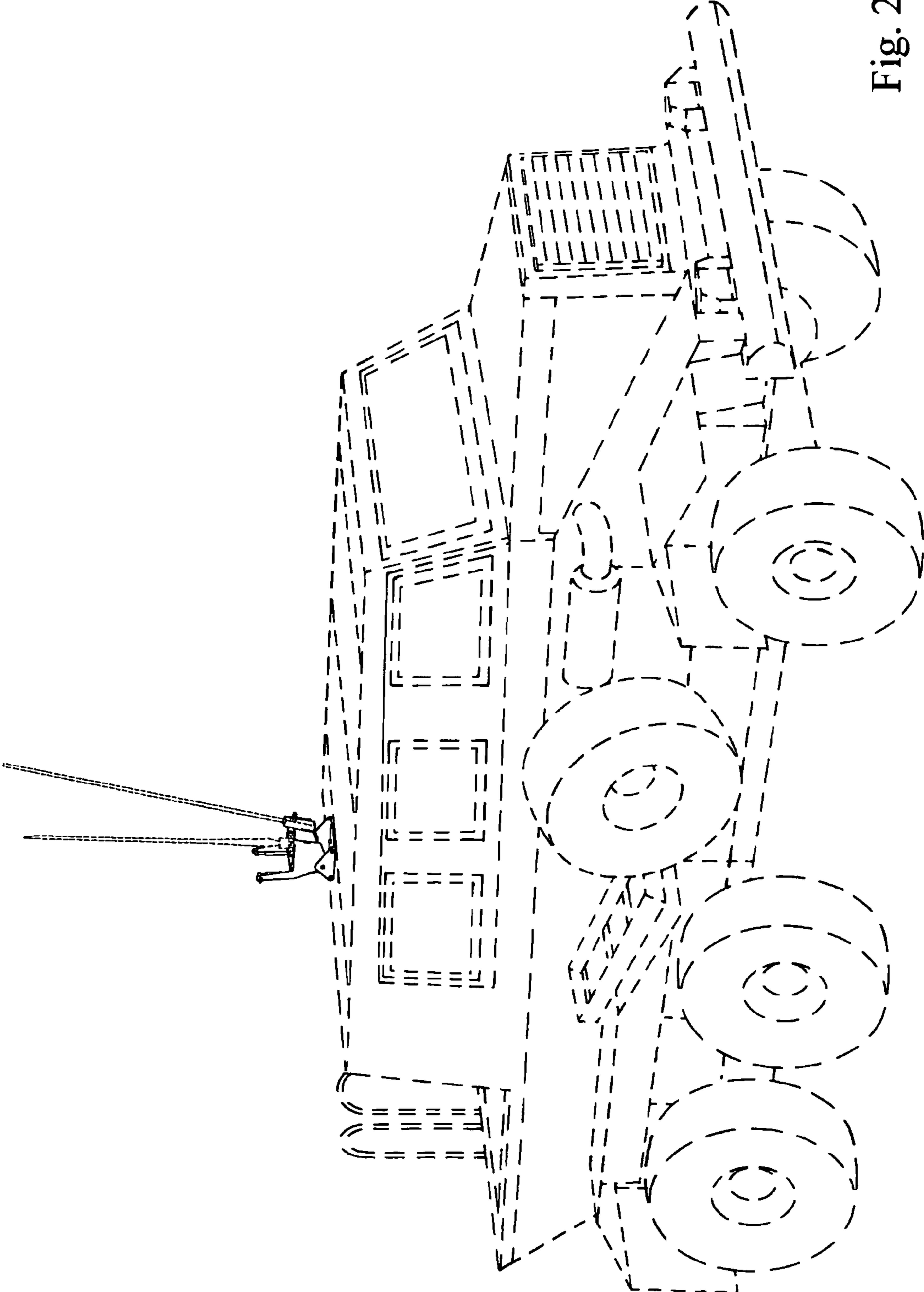


Fig. 2

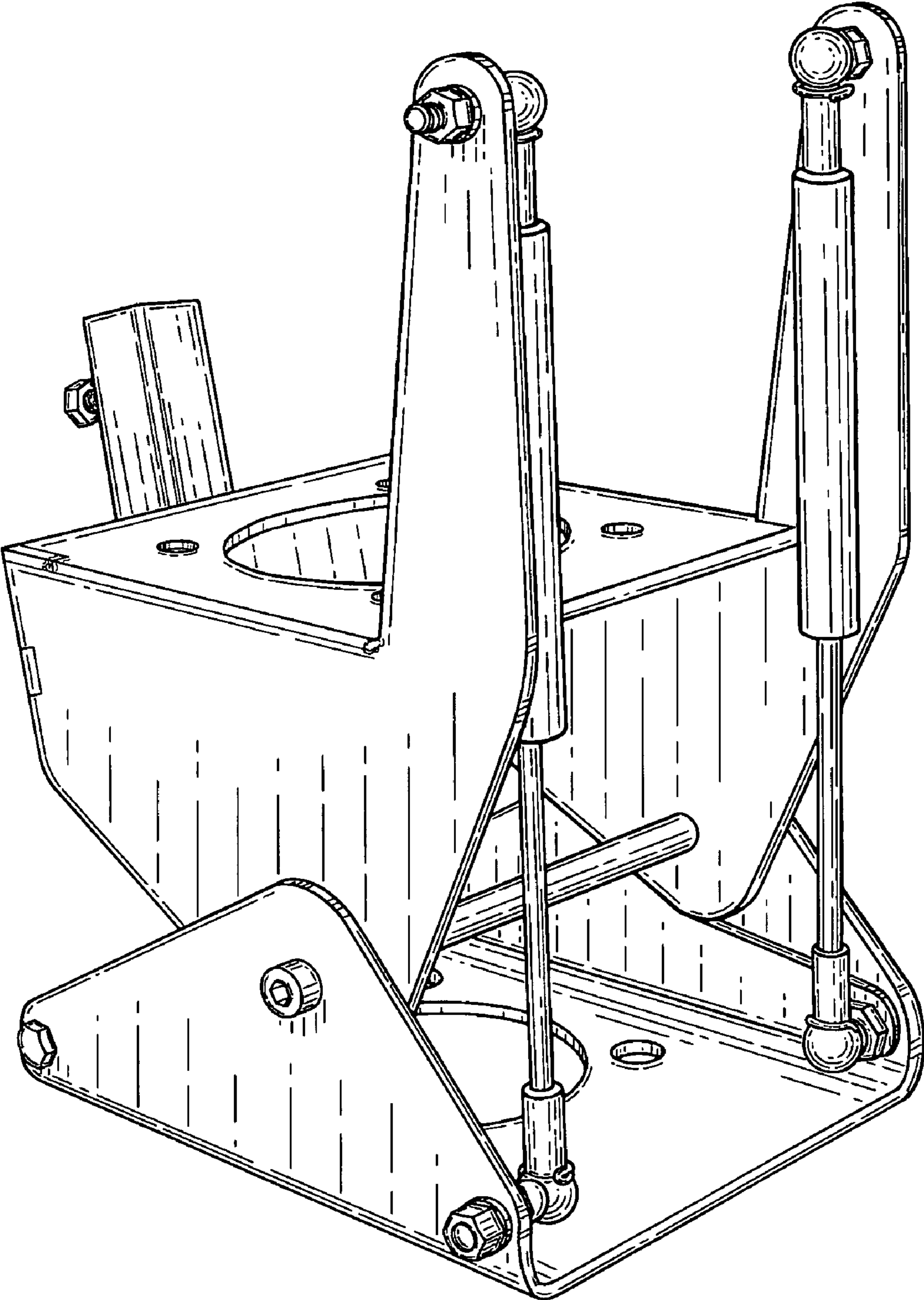


Fig. 3

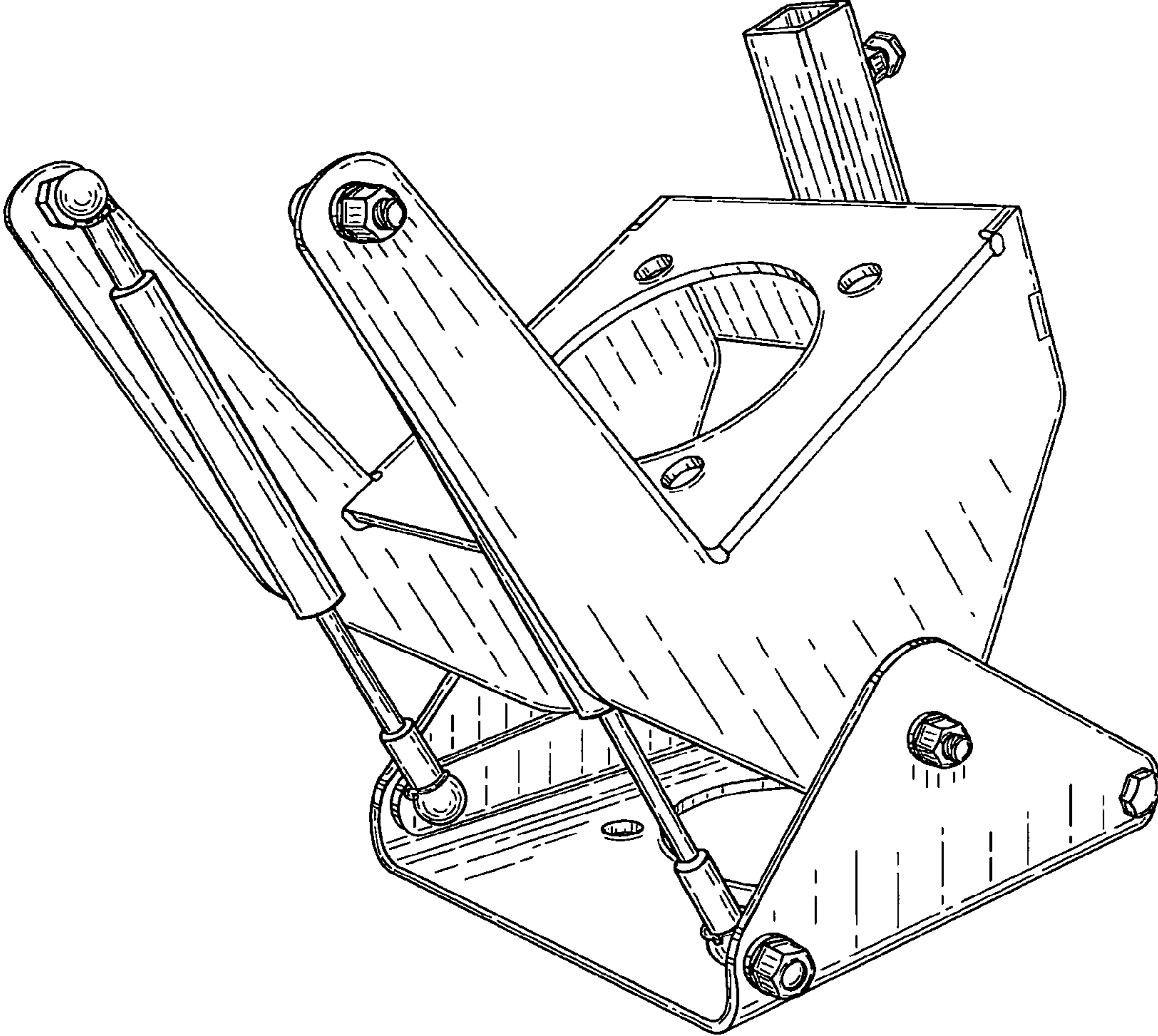


Fig. 4

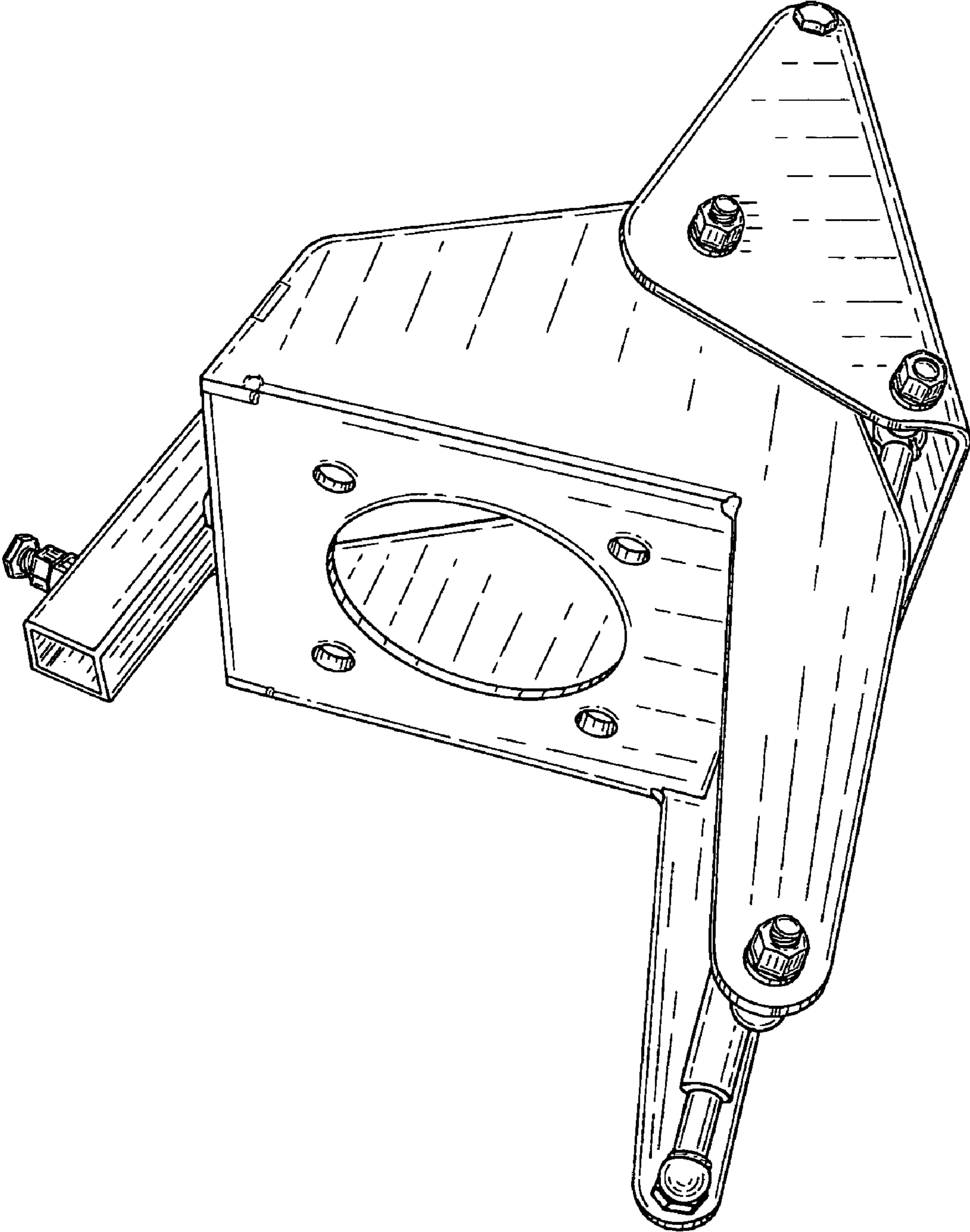


Fig. 5

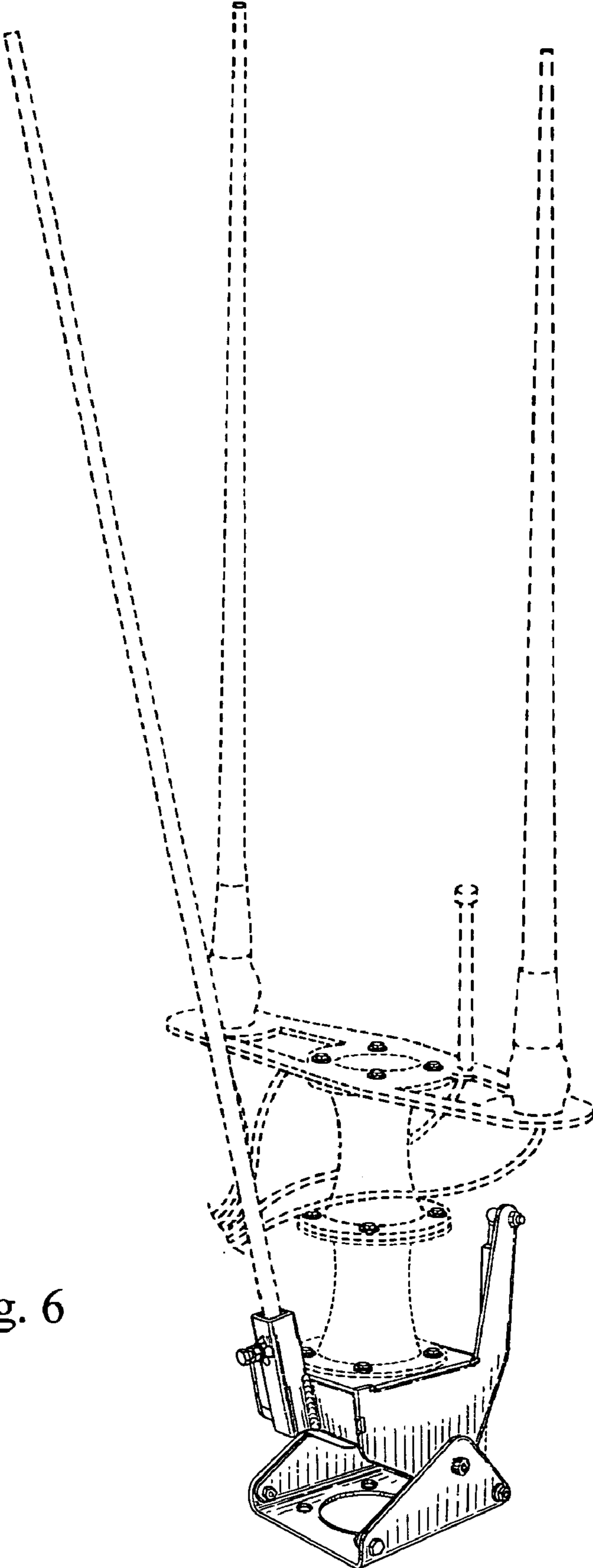


Fig. 6

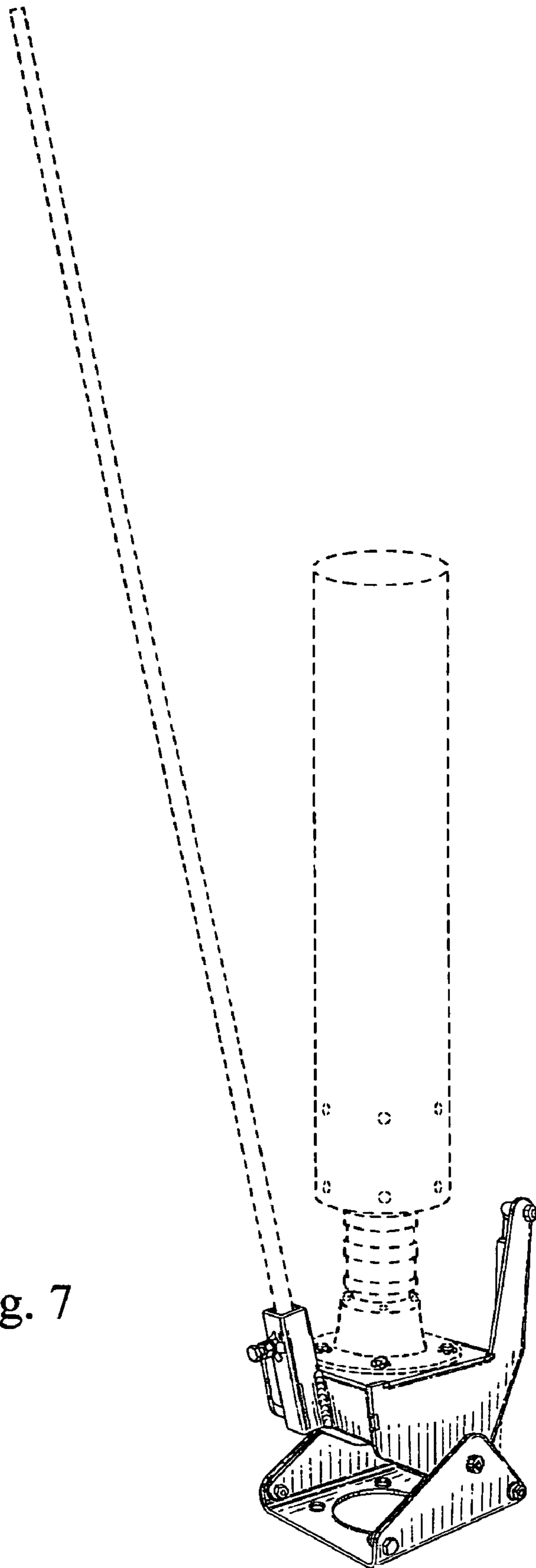


Fig. 7

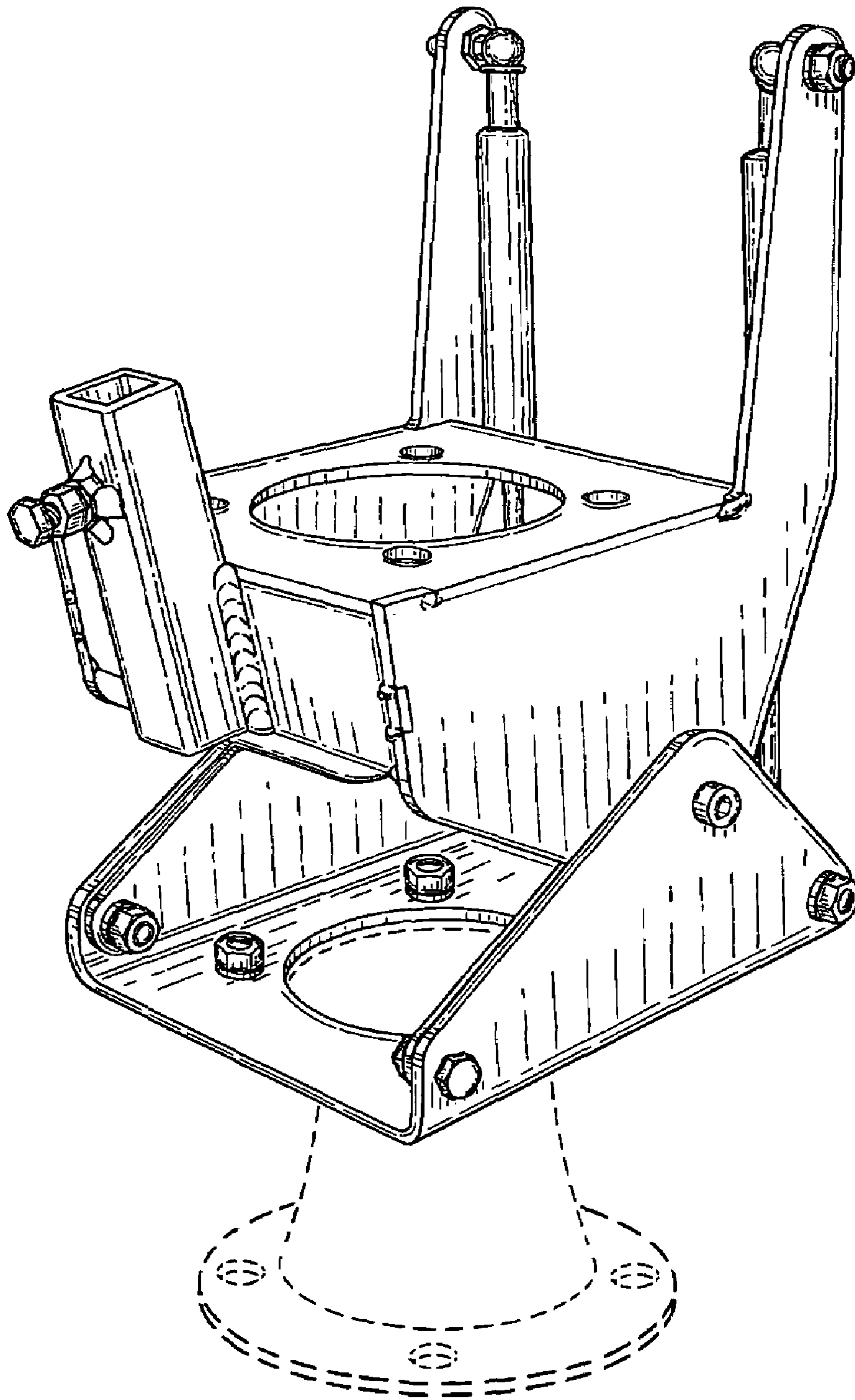


Fig. 8

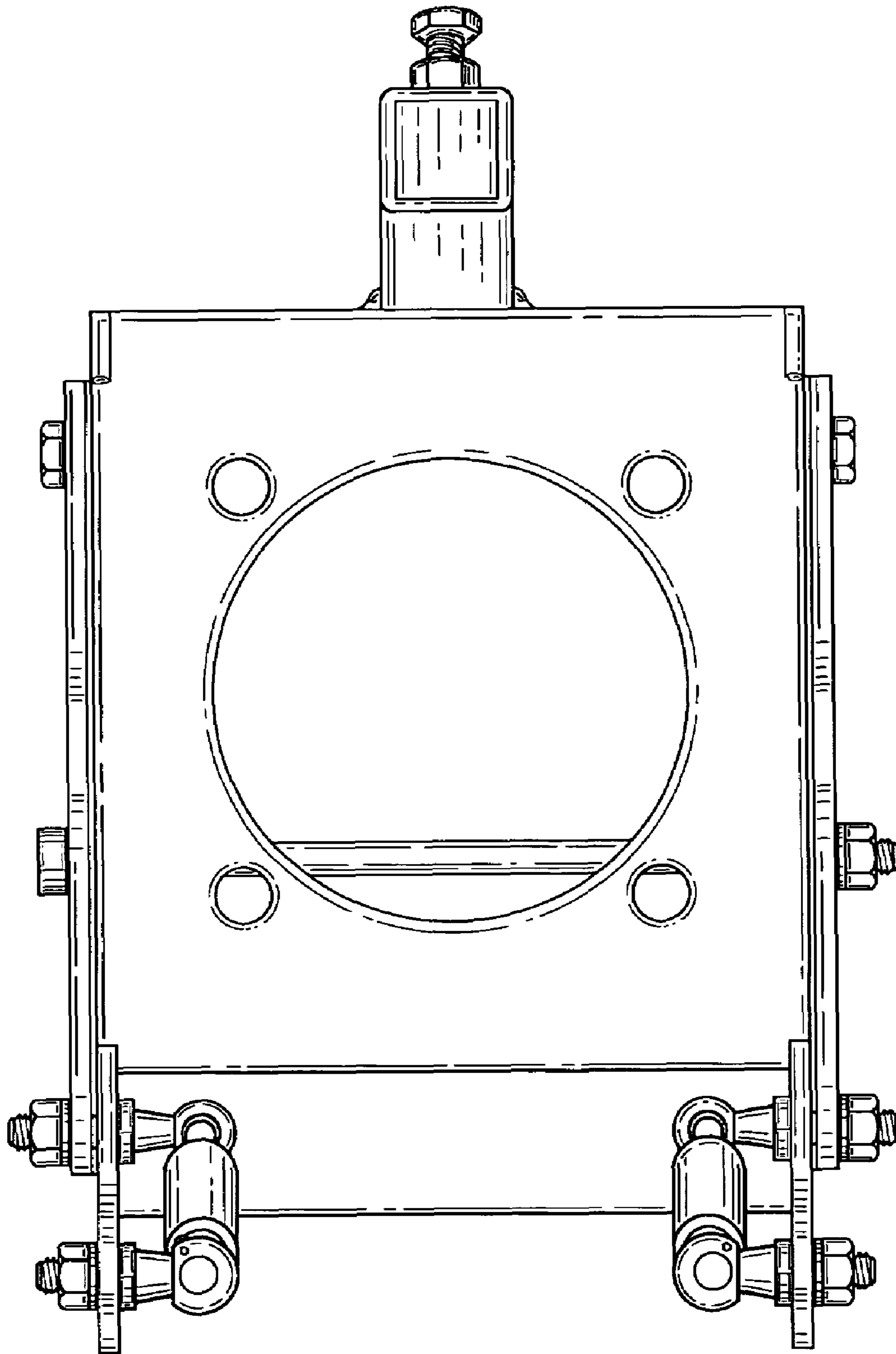


Fig. 9

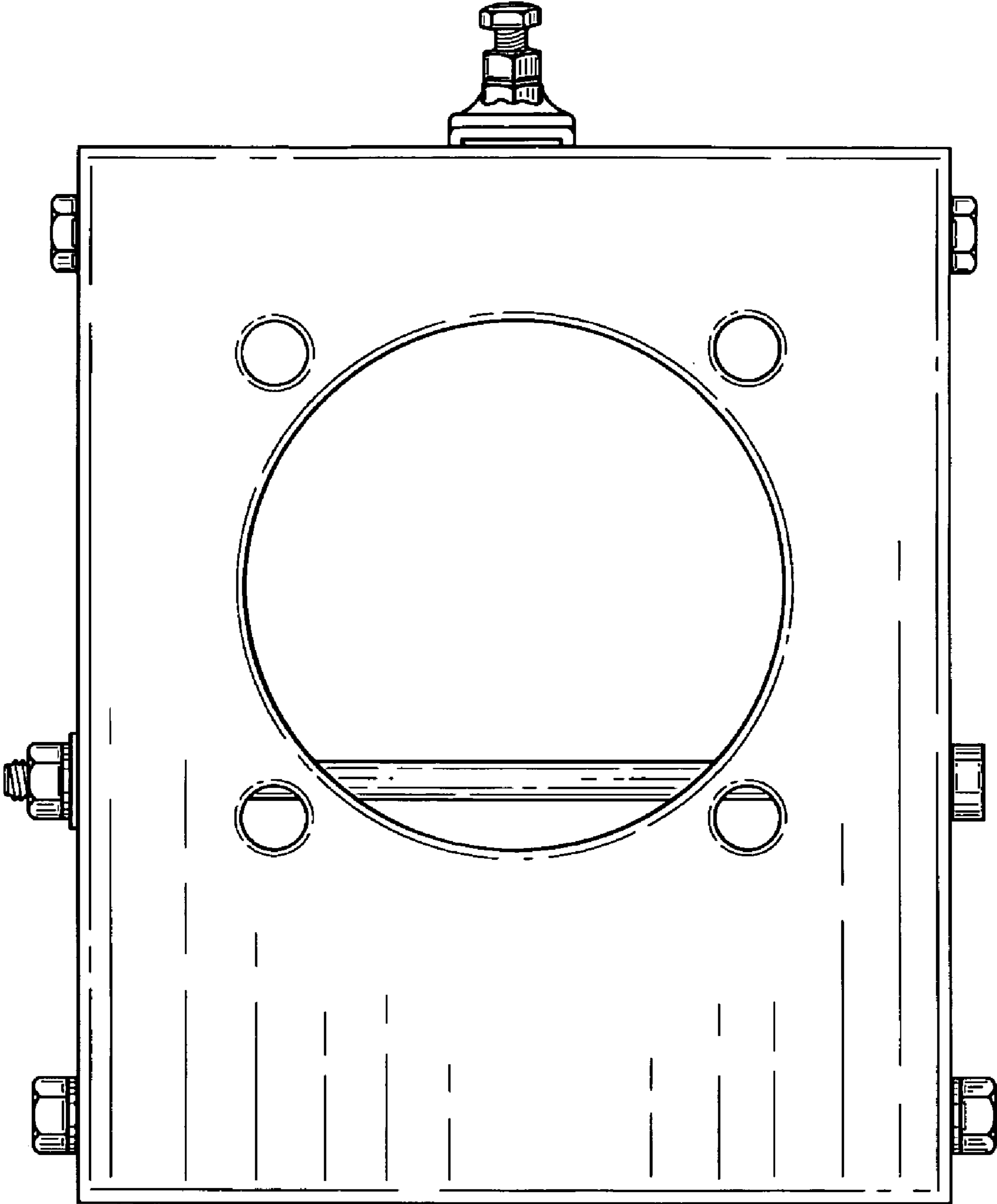


Fig. 10

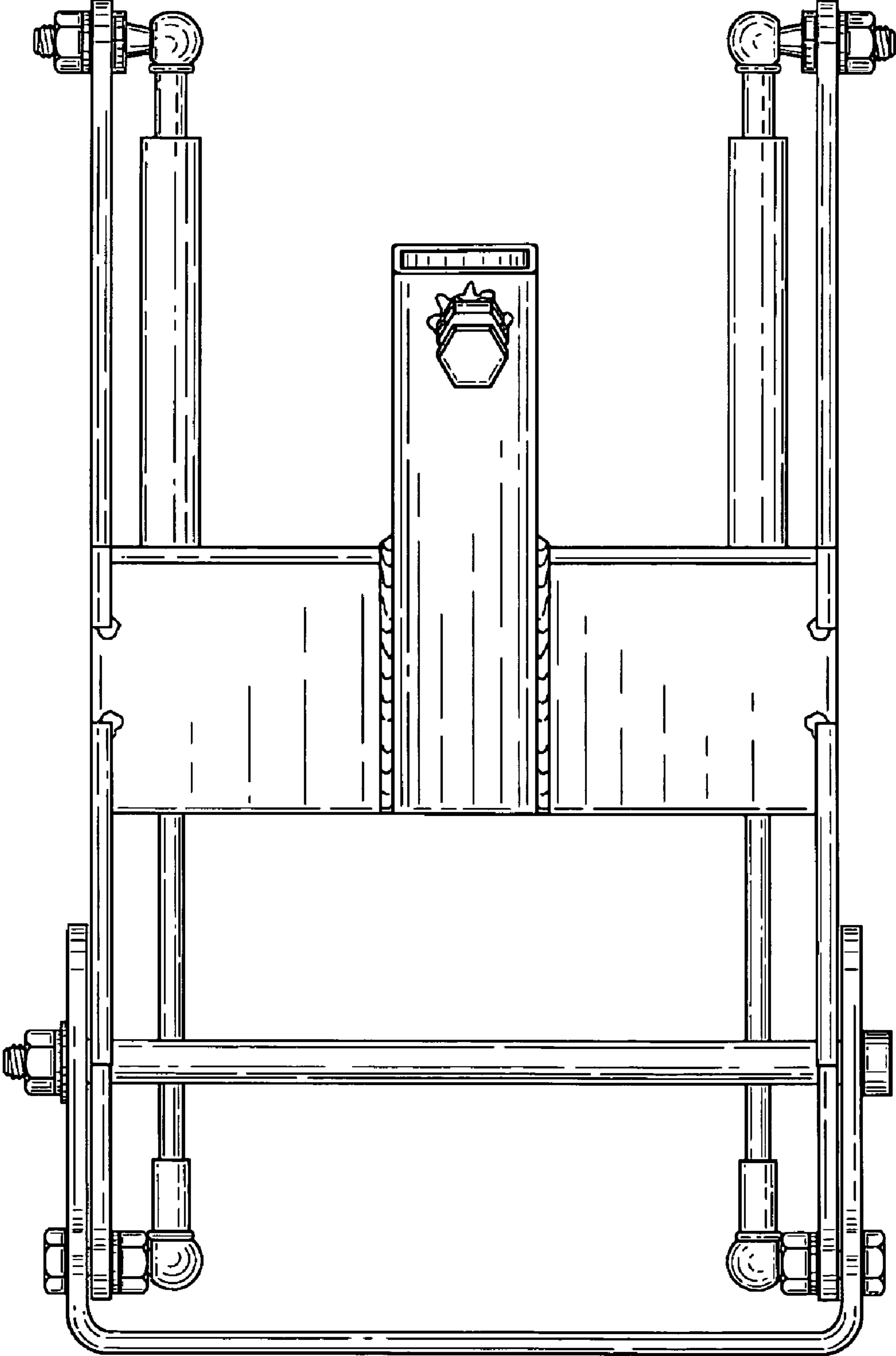


Fig. 11

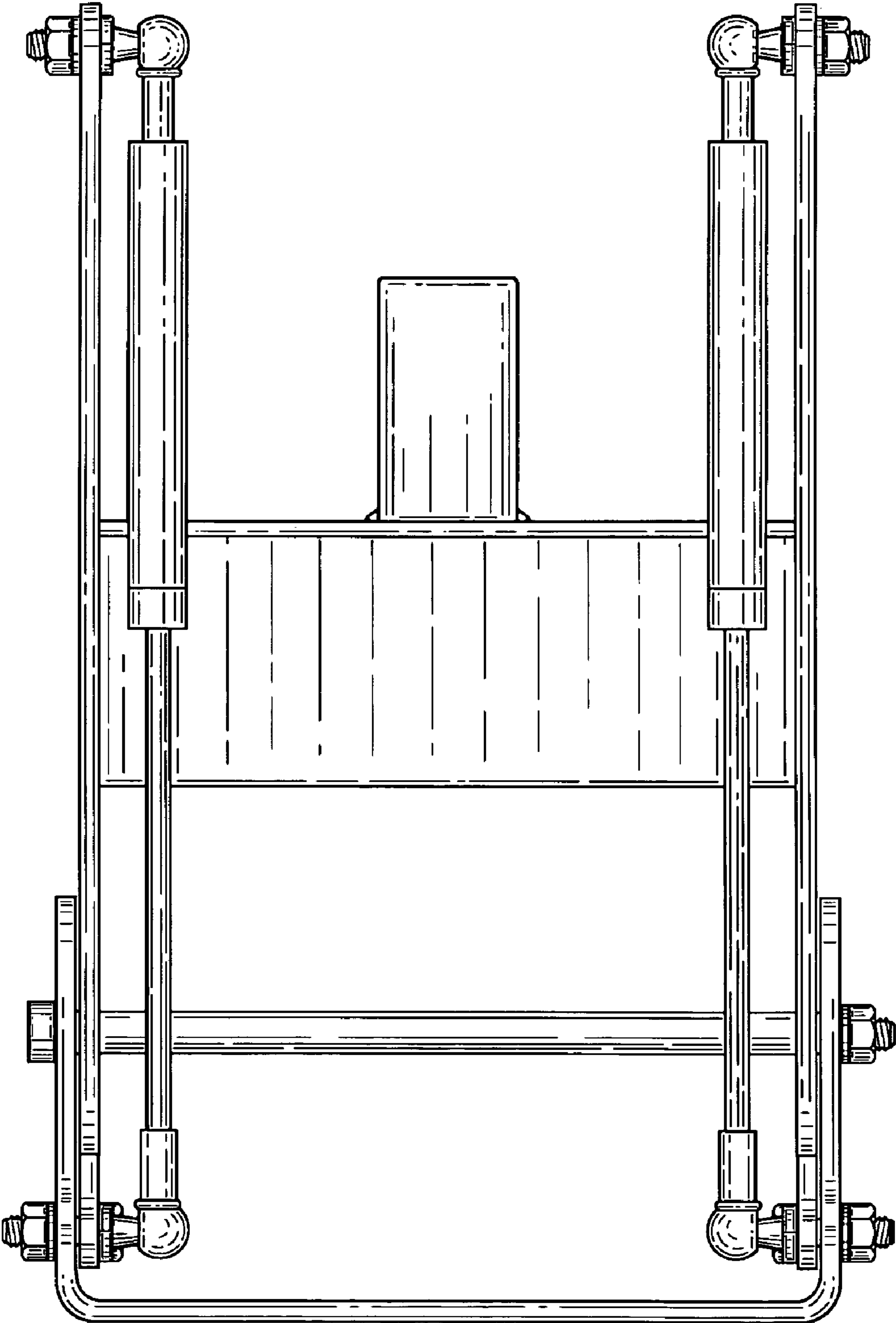


Fig. 12

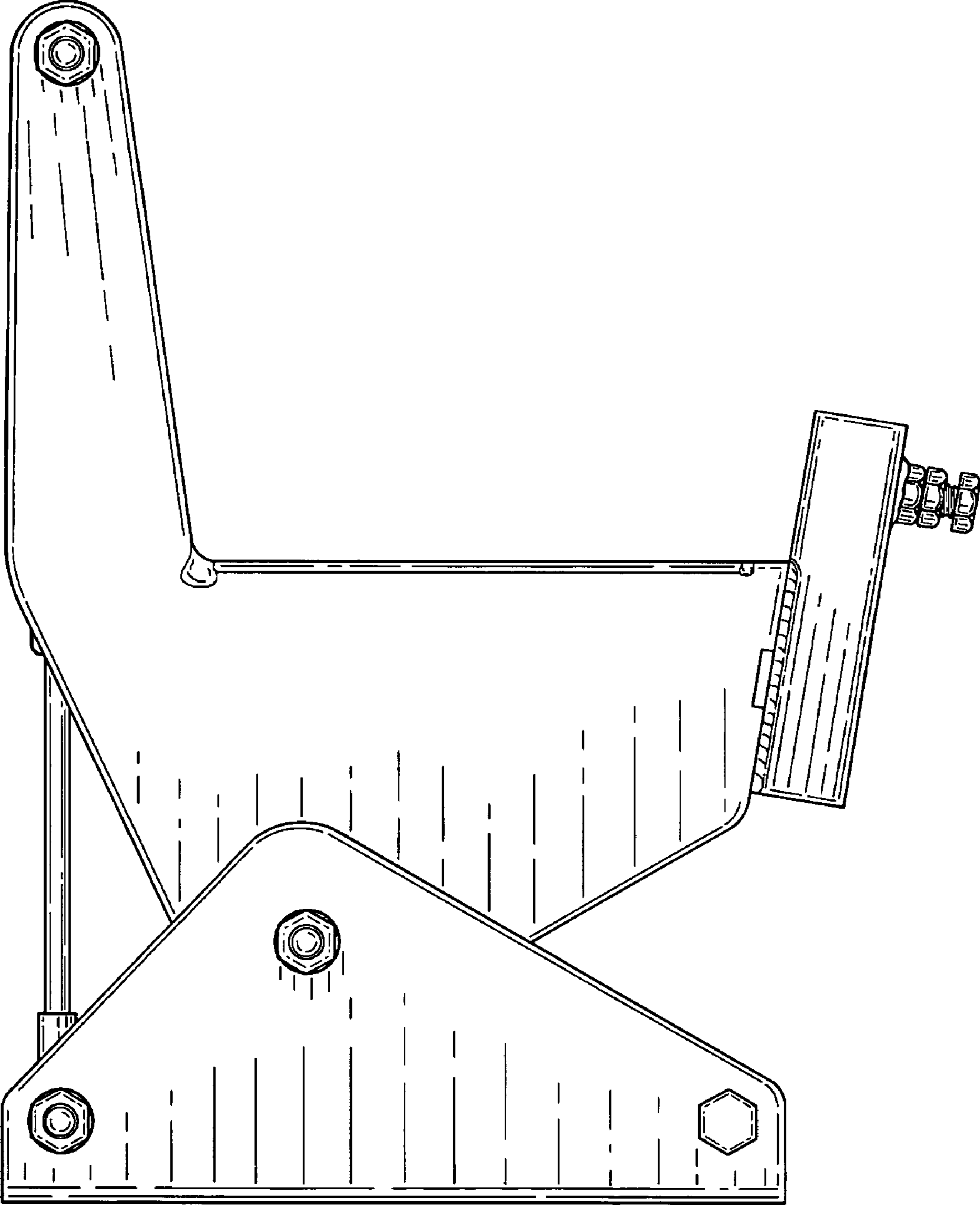


Fig. 13

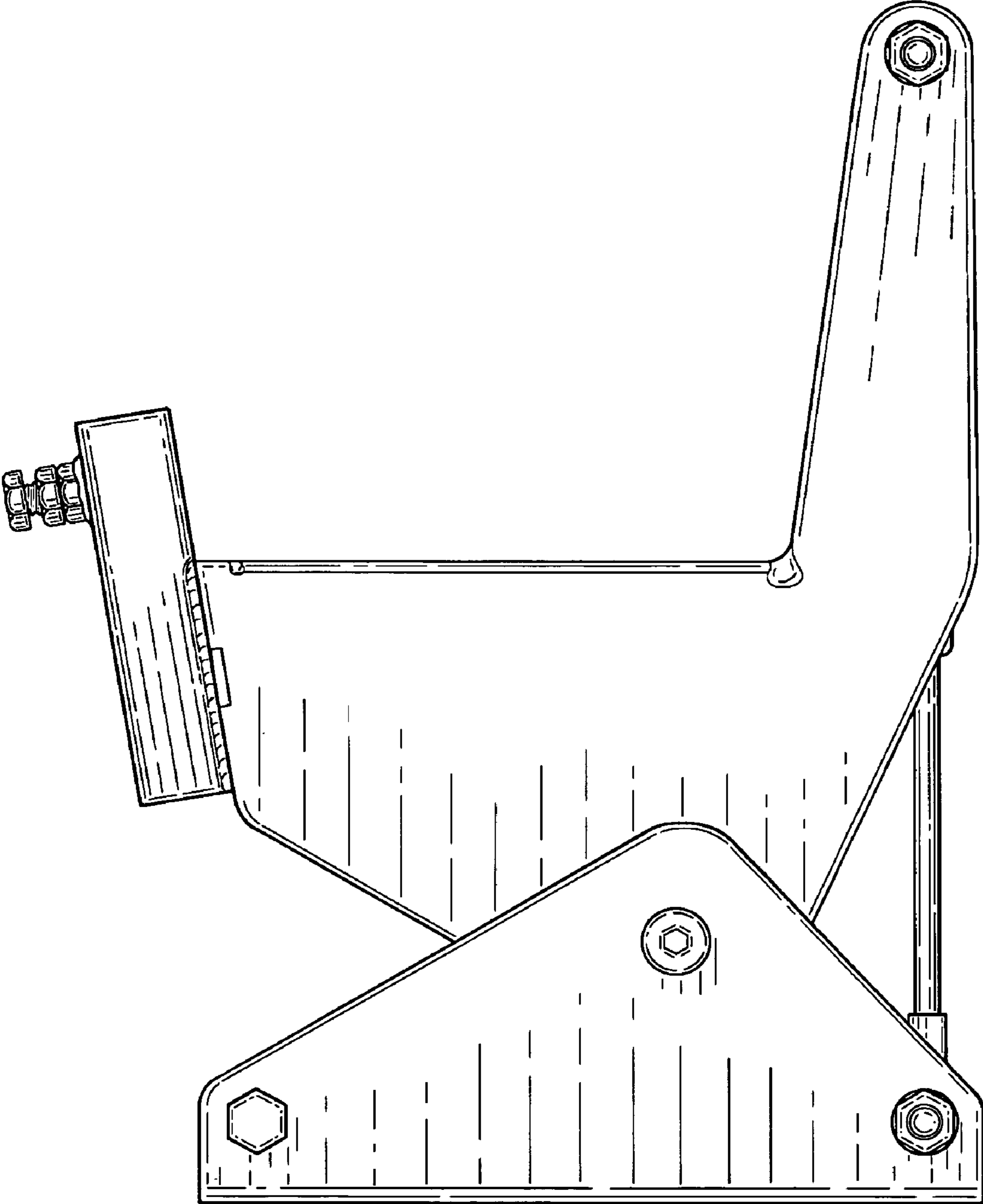


Fig. 14