



US00D593079S

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

(10) **Patent No.:** **US D593,079 S**
(45) **Date of Patent:** **** May 26, 2009**

(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**

(22) Filed: **Apr. 25, 2008**

(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;

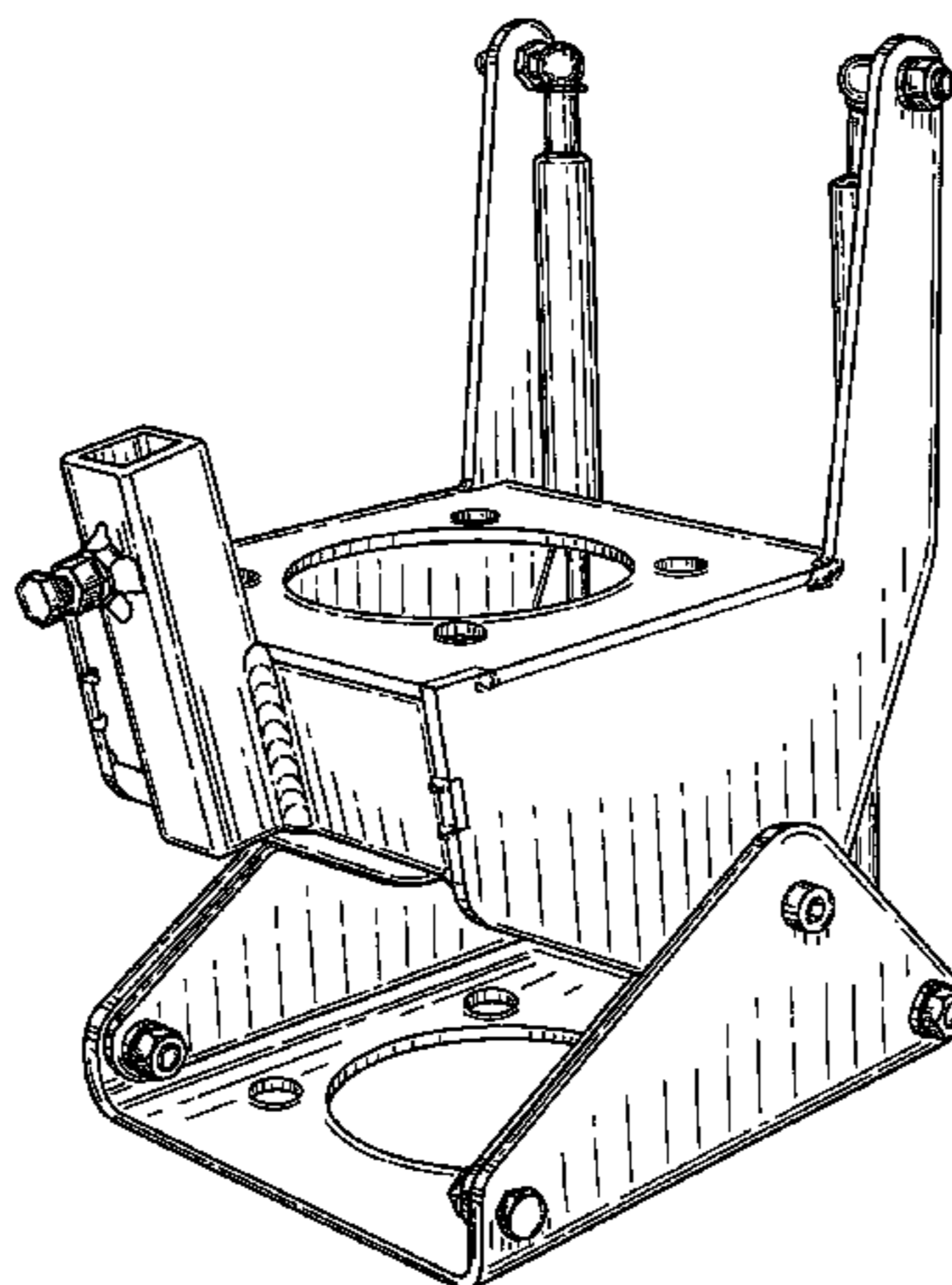
FIG. 2 is a front, top, and right side perspective view of the antenna tip-over mount wherein the mount in an un-tipped, upright position, and implemented in a typical vehicle environment is illustrated;

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

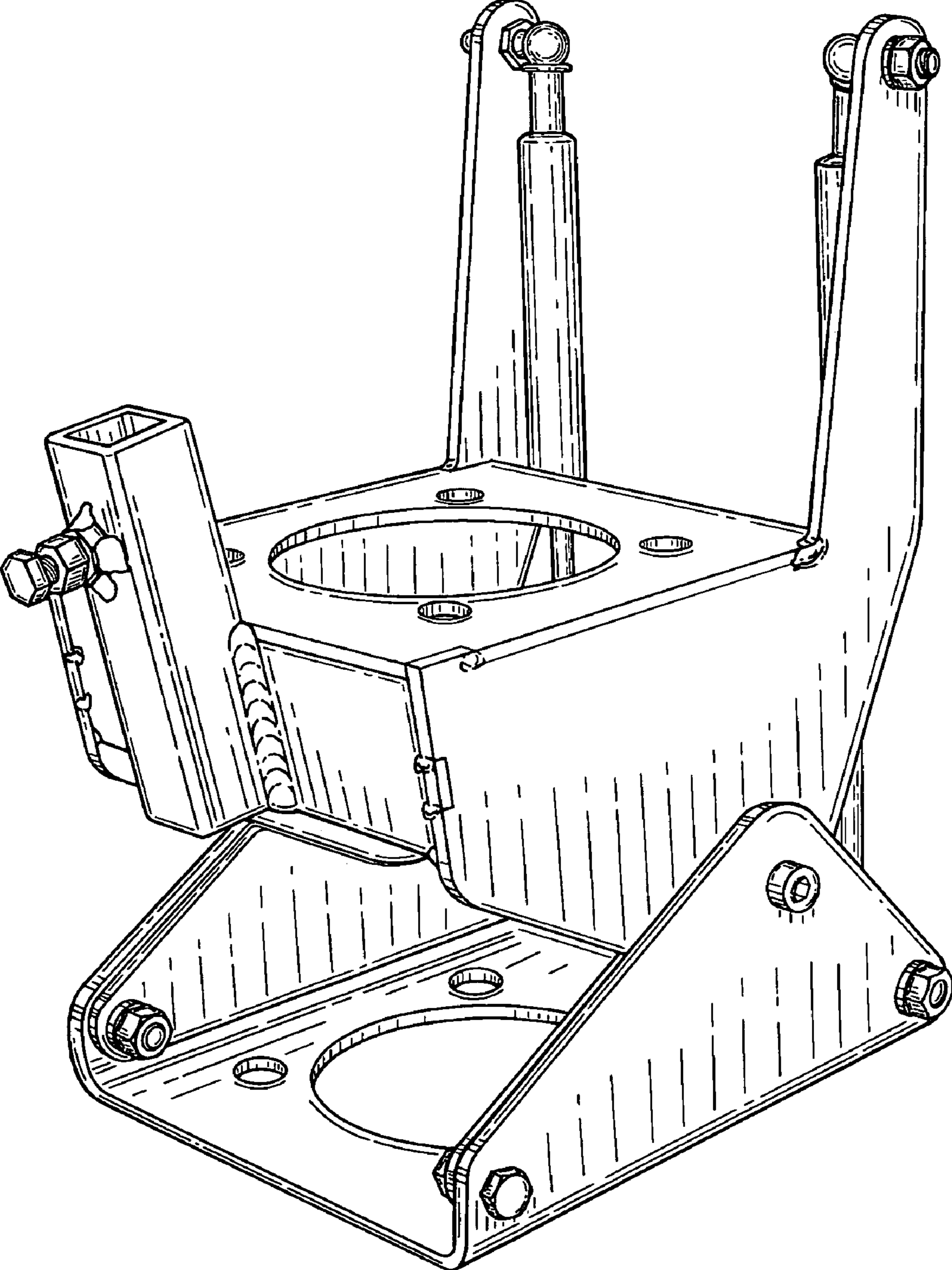


Fig. 1

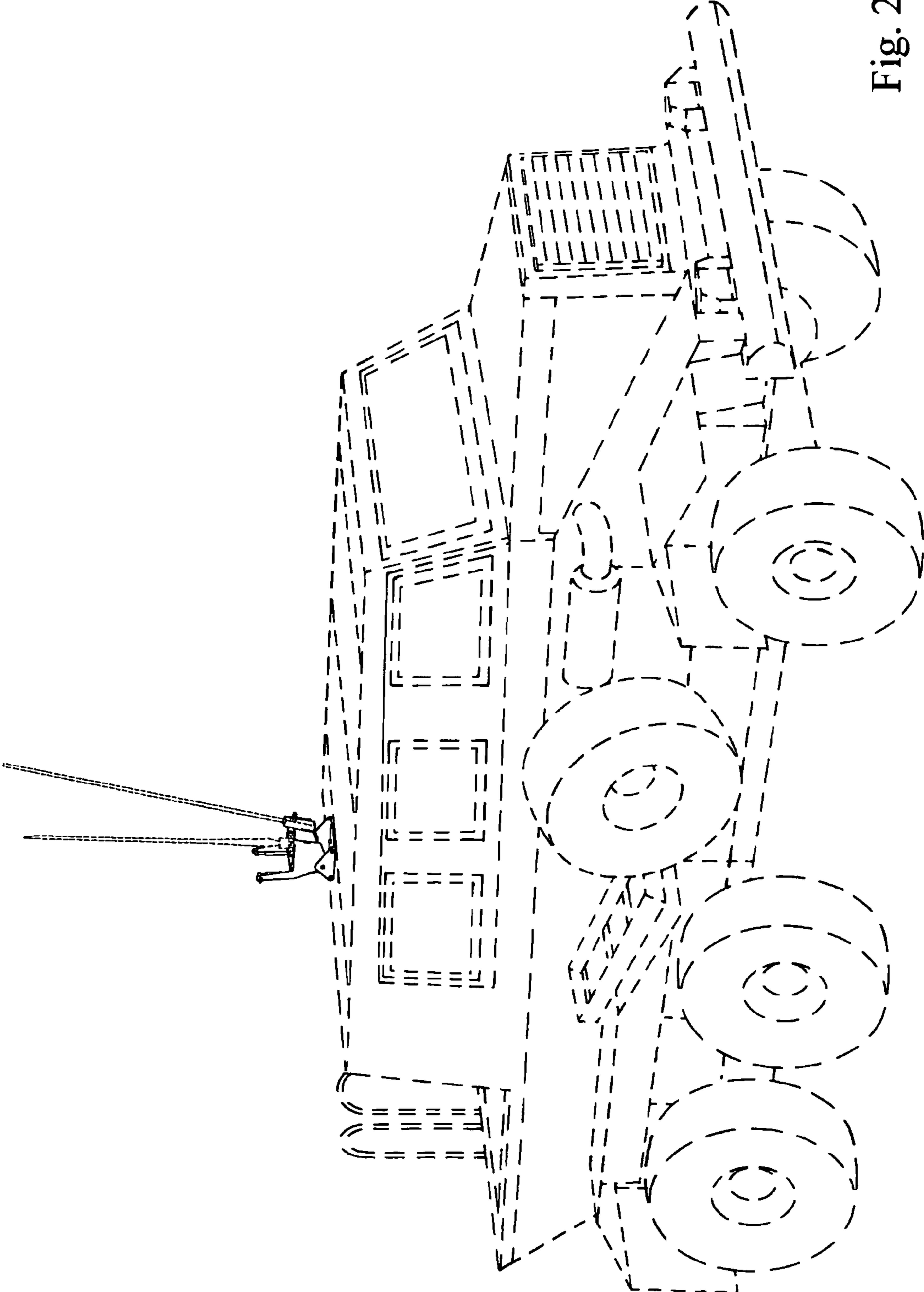


Fig. 2

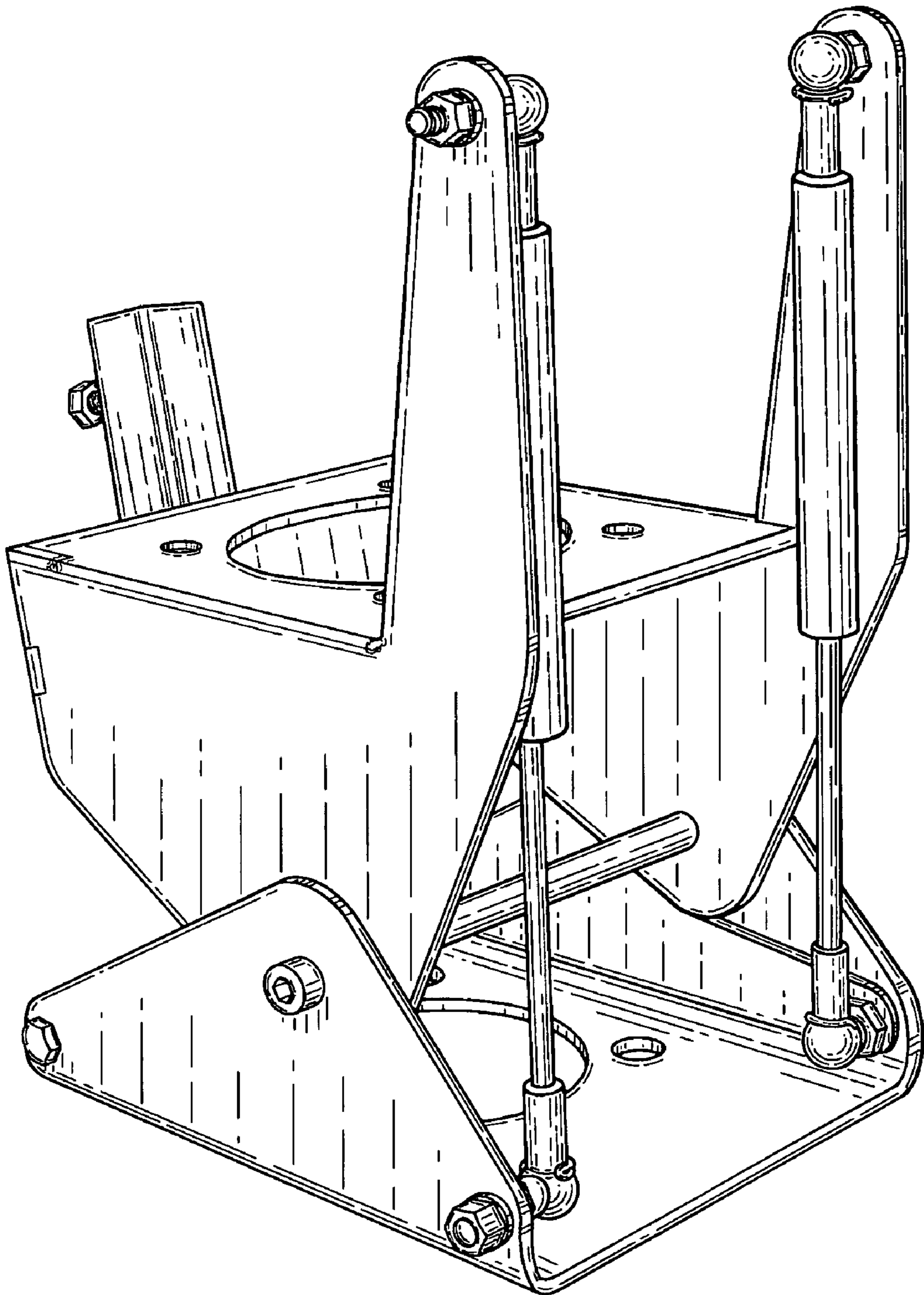


Fig. 3

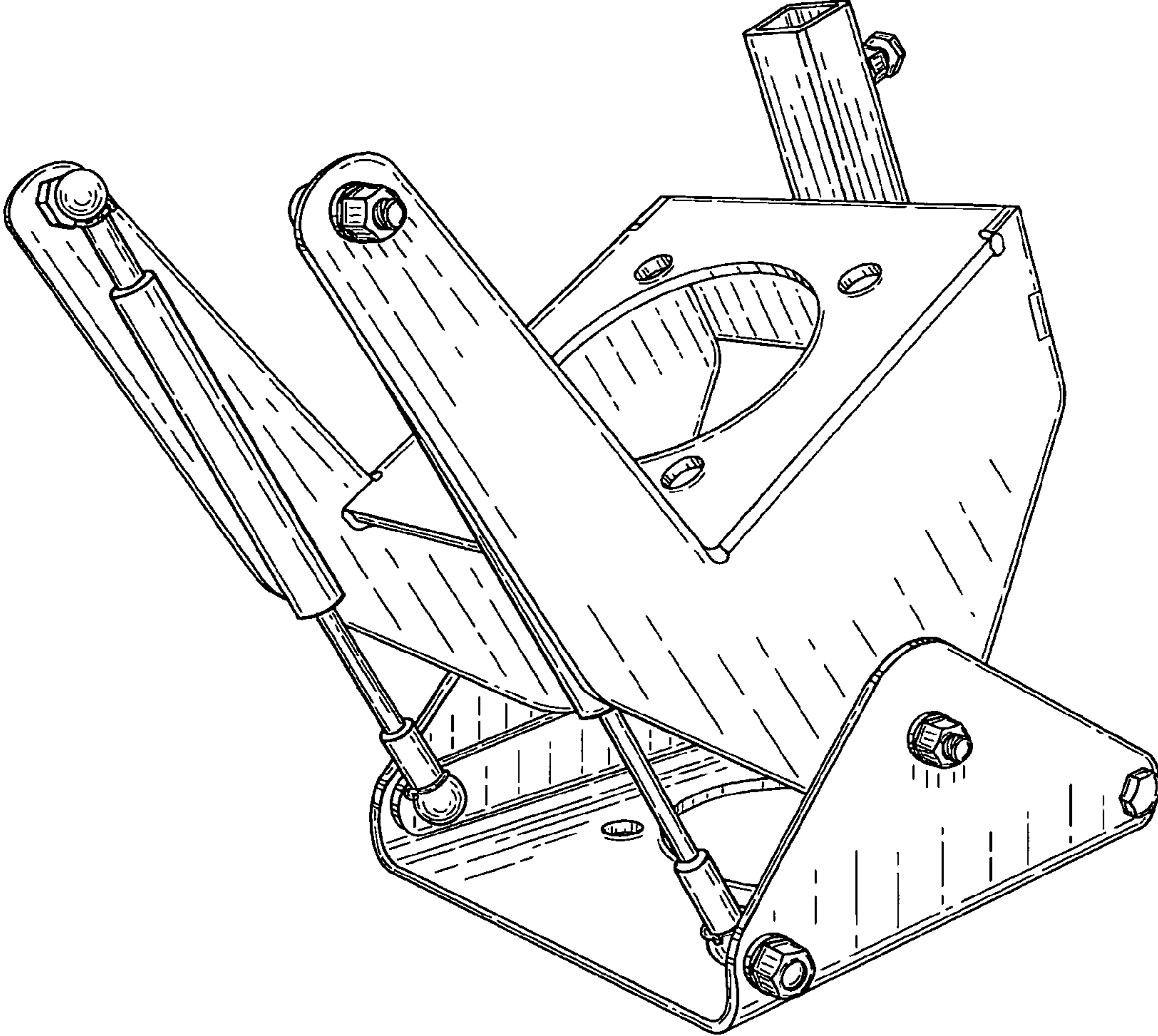


Fig. 4

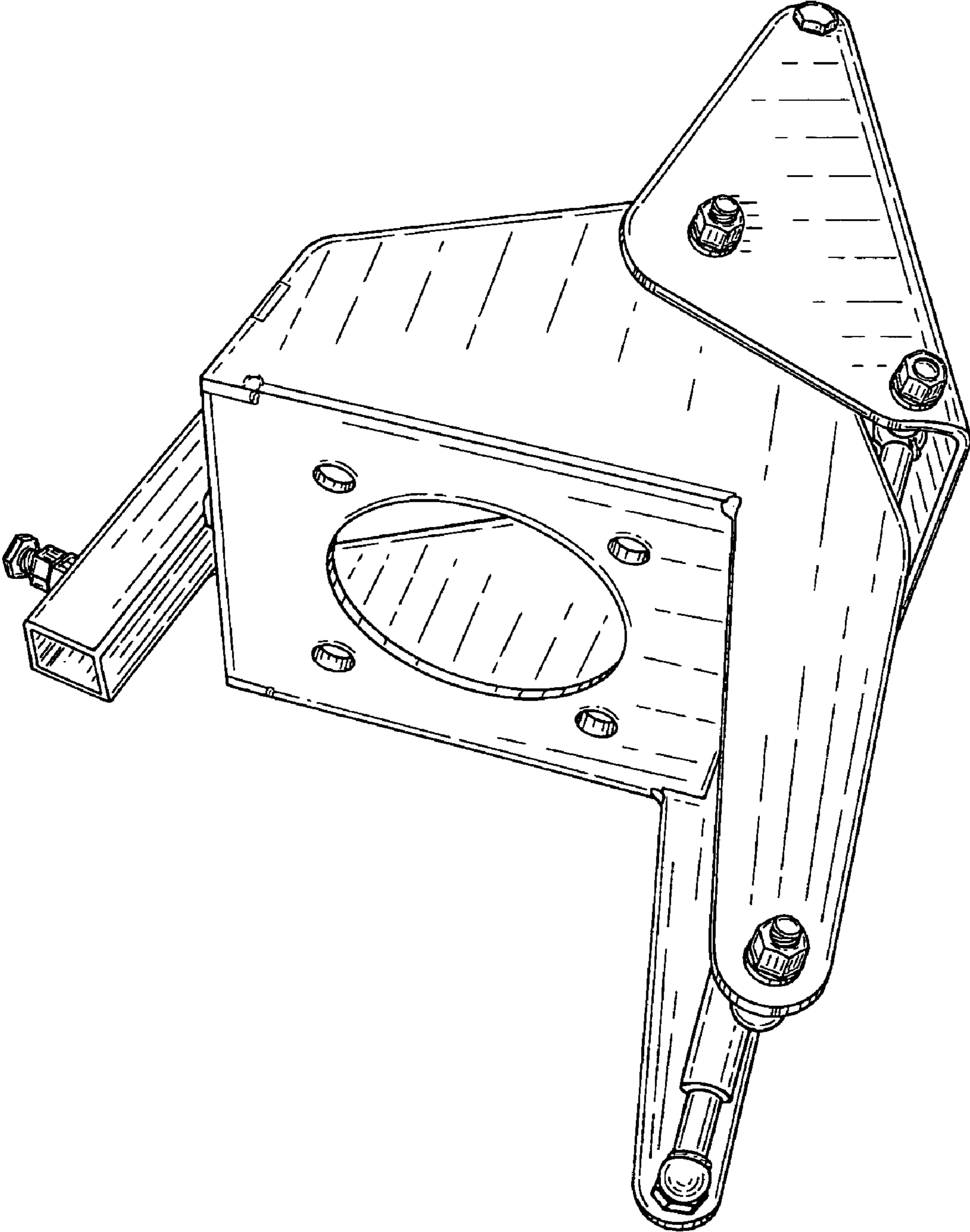


Fig. 5

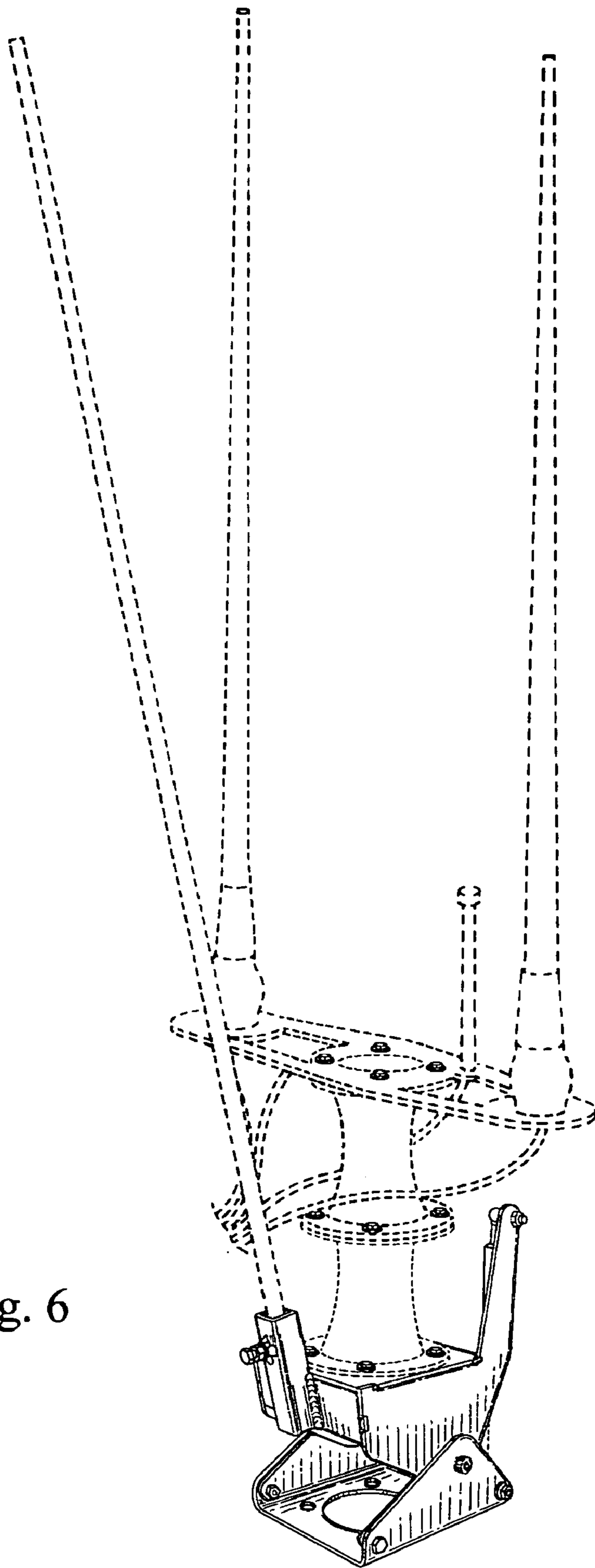


Fig. 6

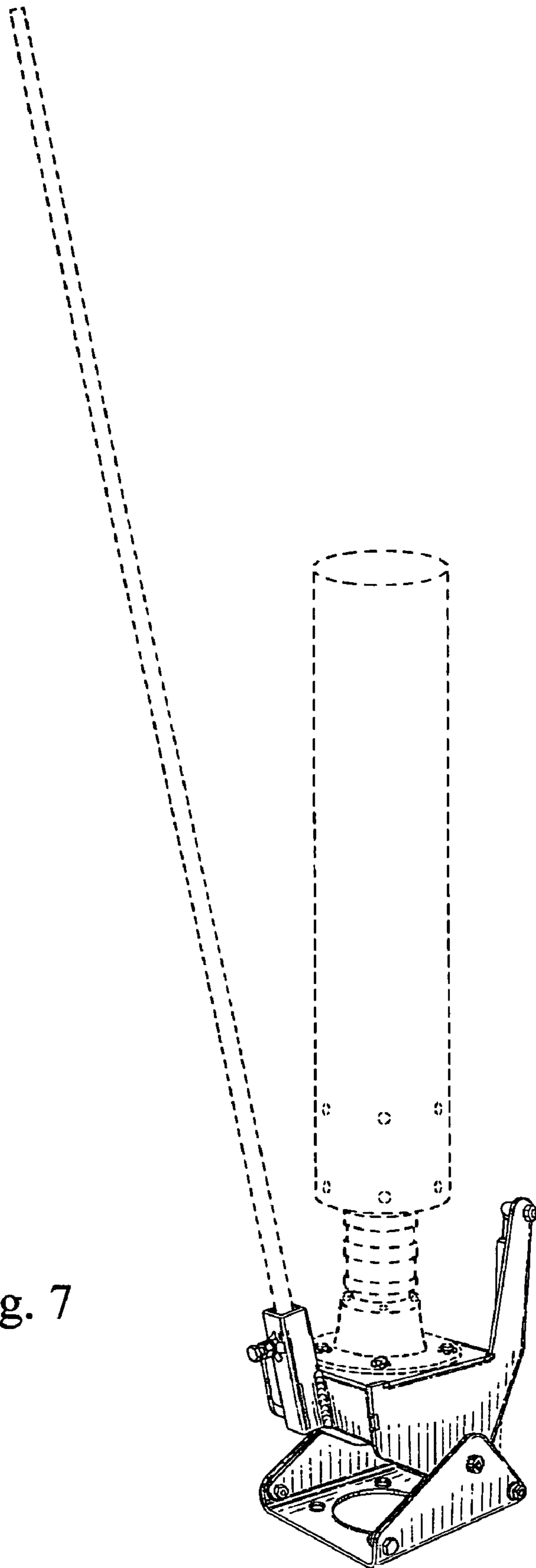


Fig. 7

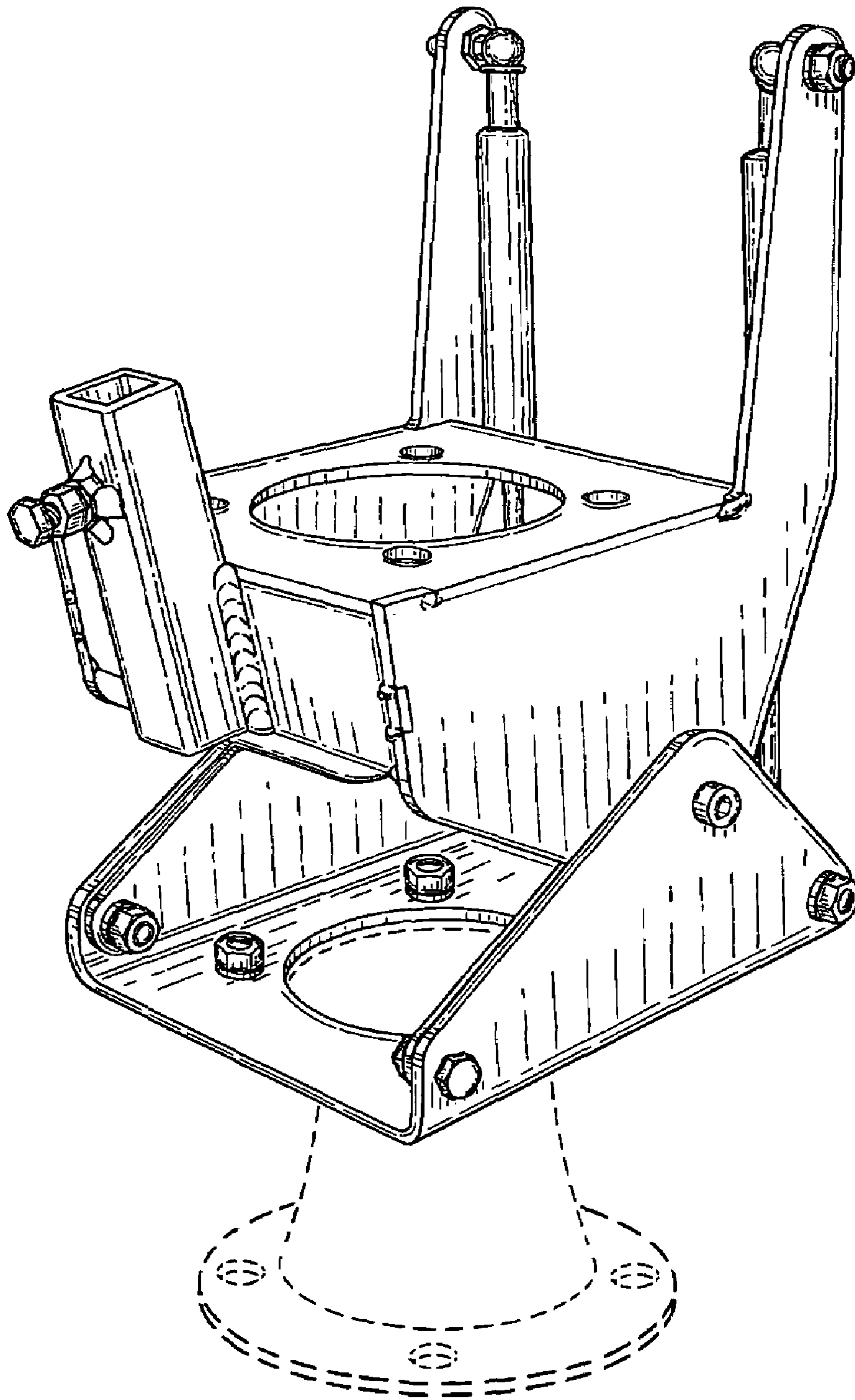


Fig. 8

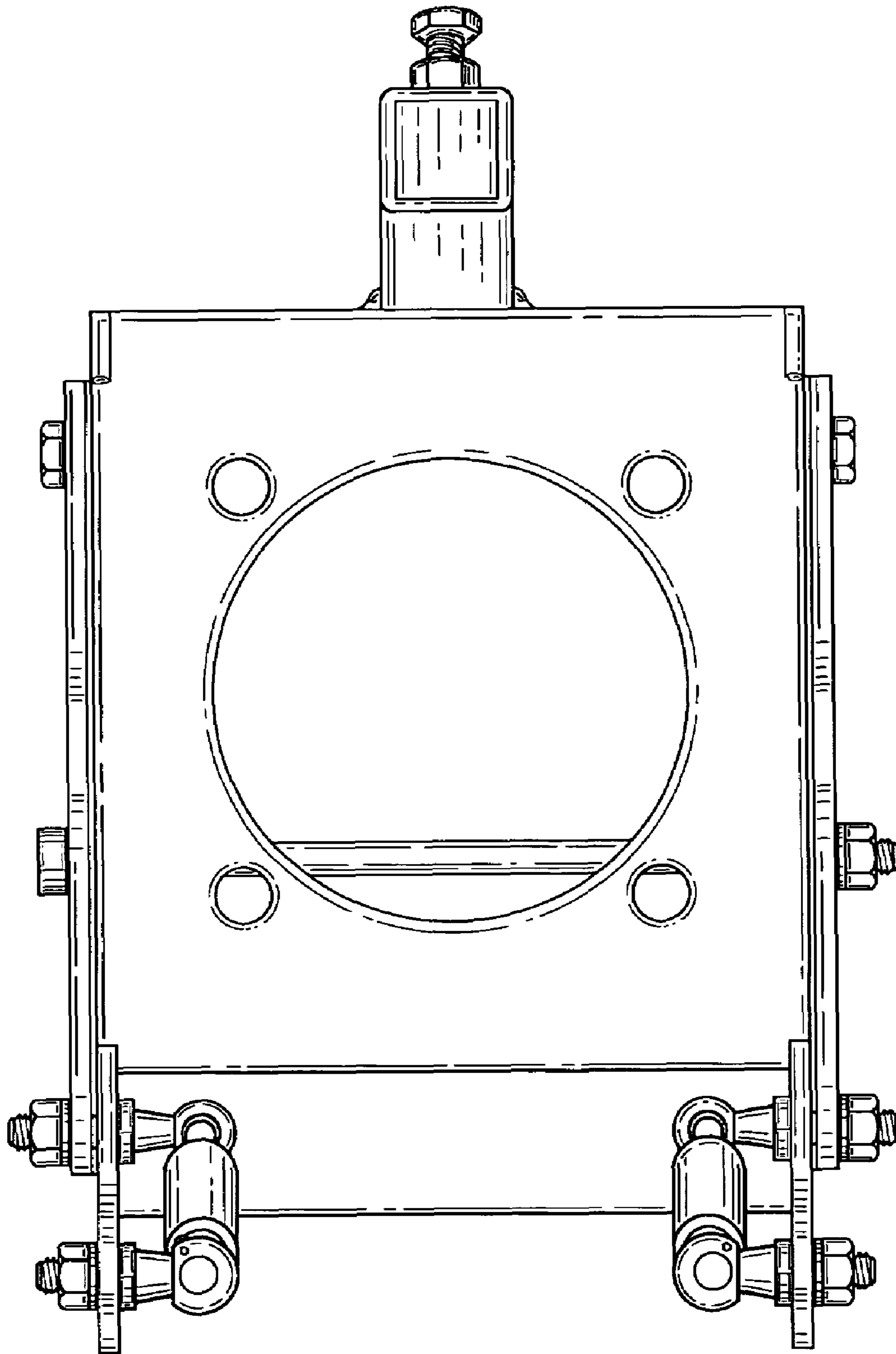


Fig. 9

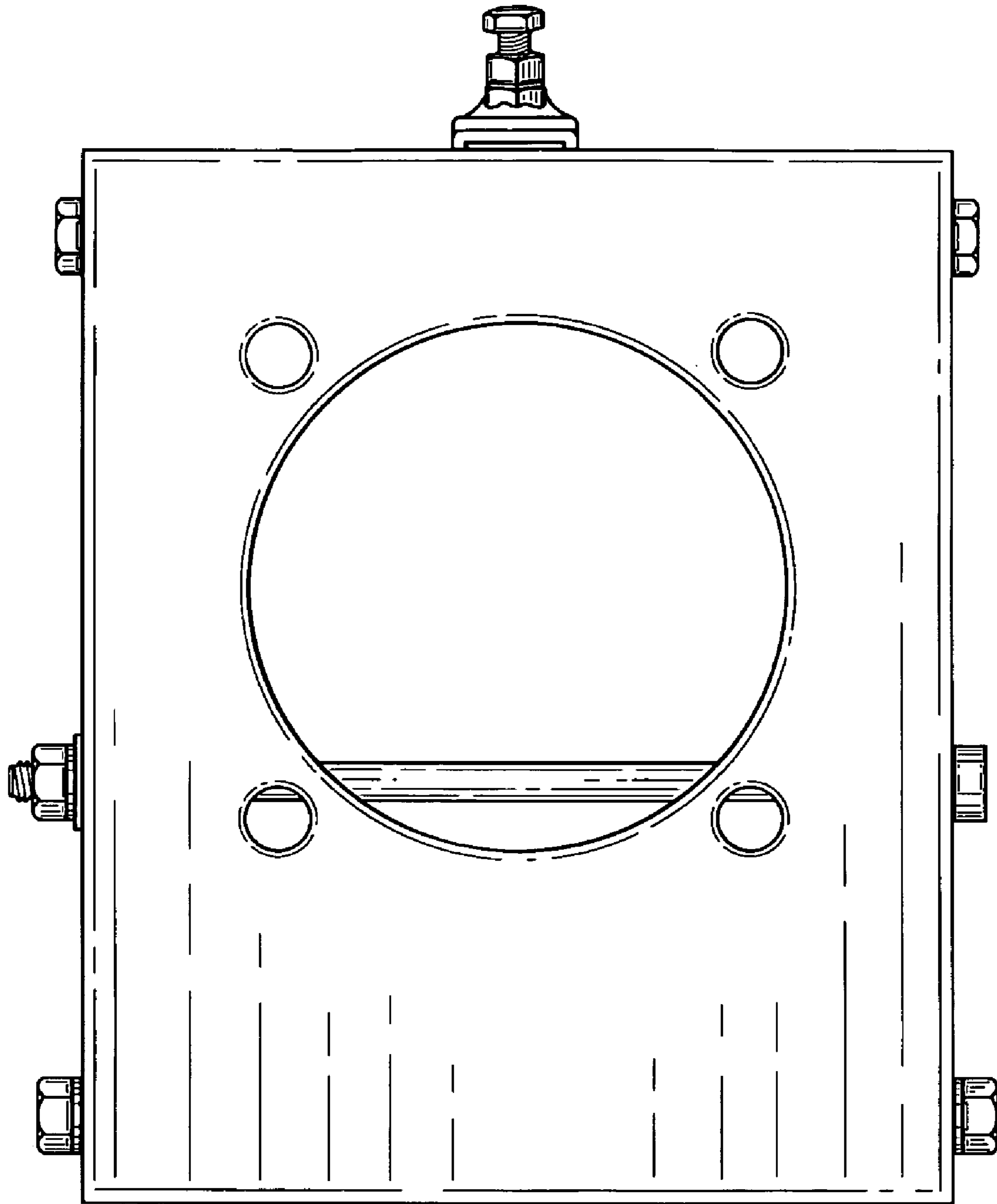


Fig. 10

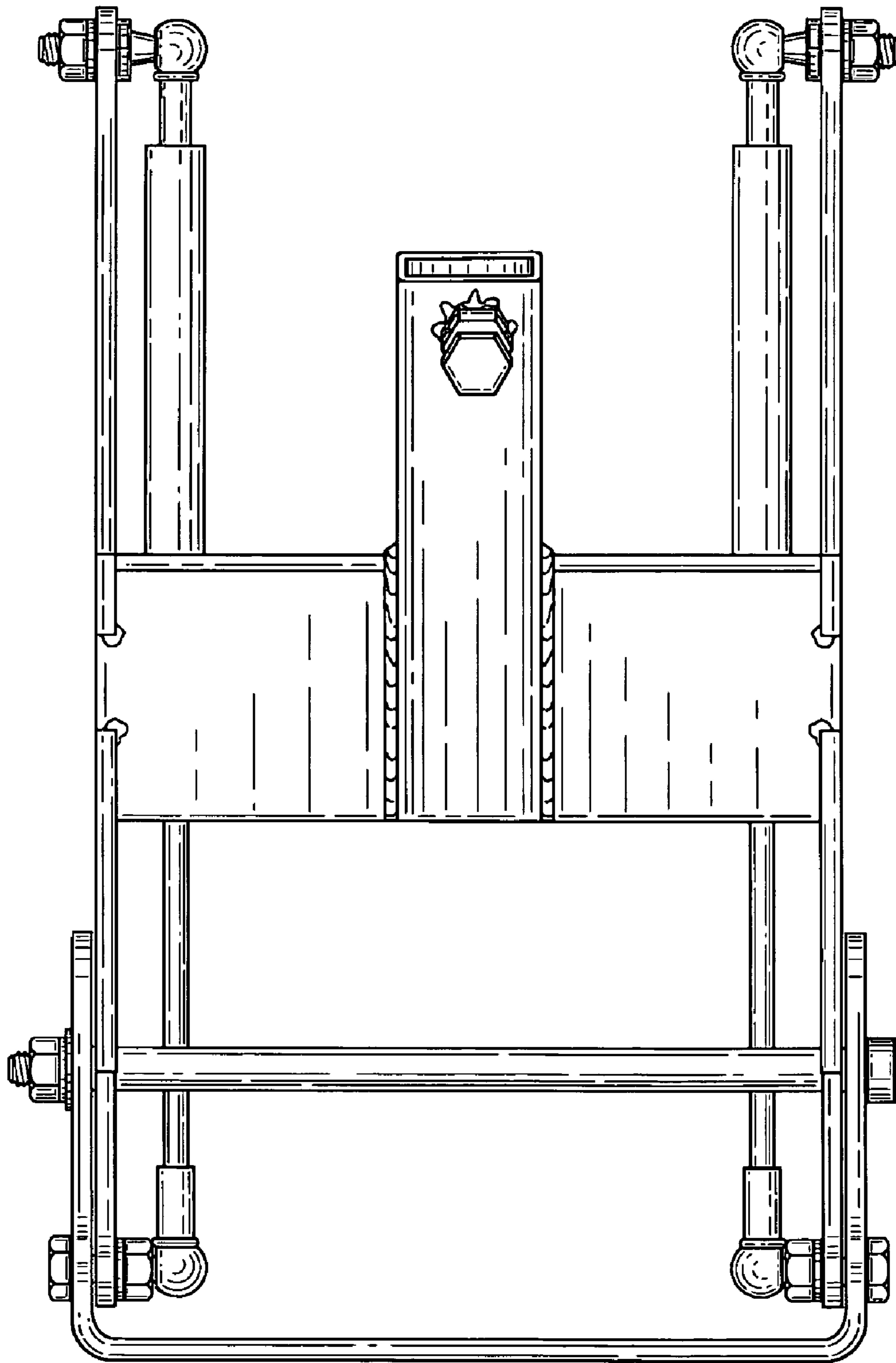


Fig. 11

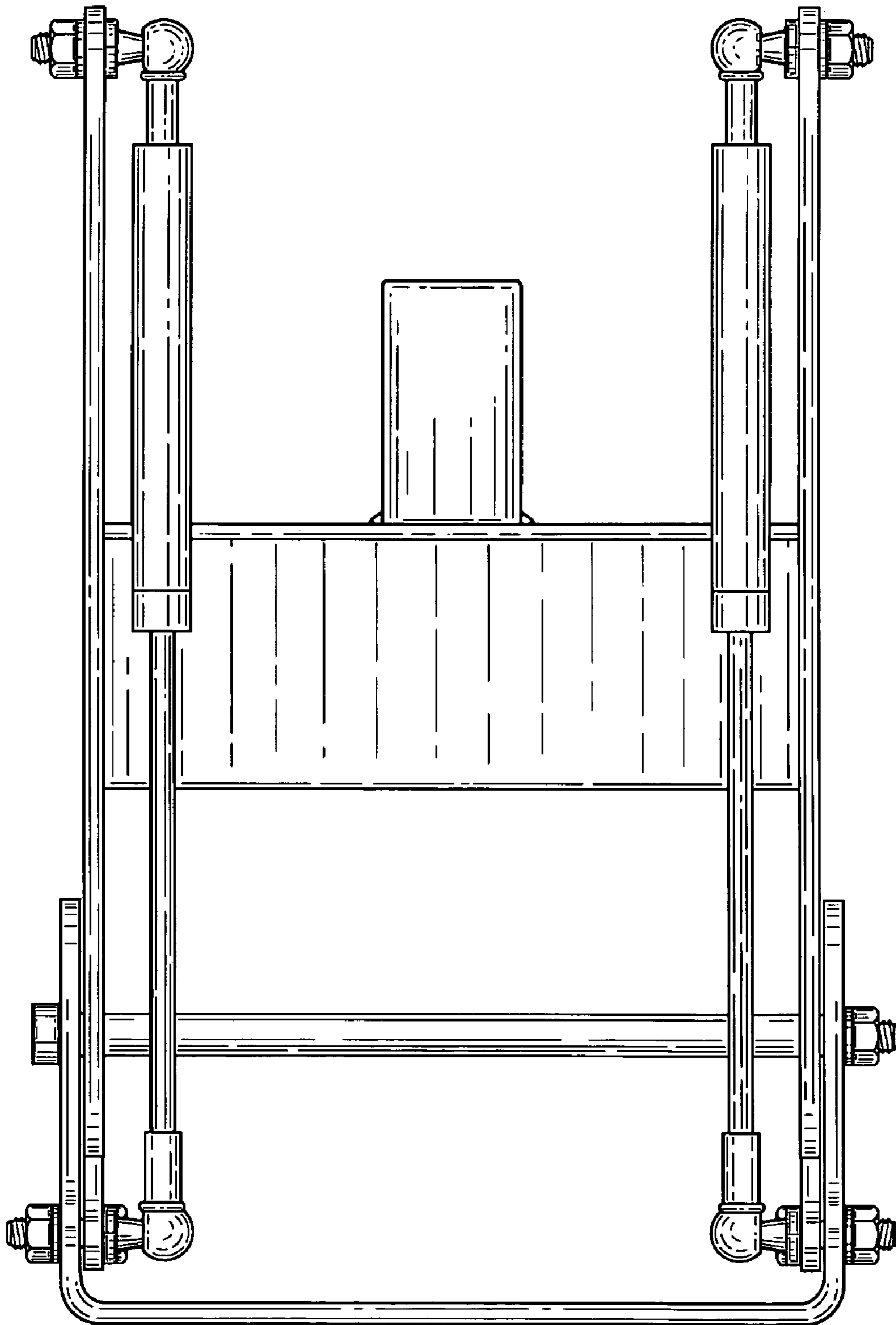


Fig. 12

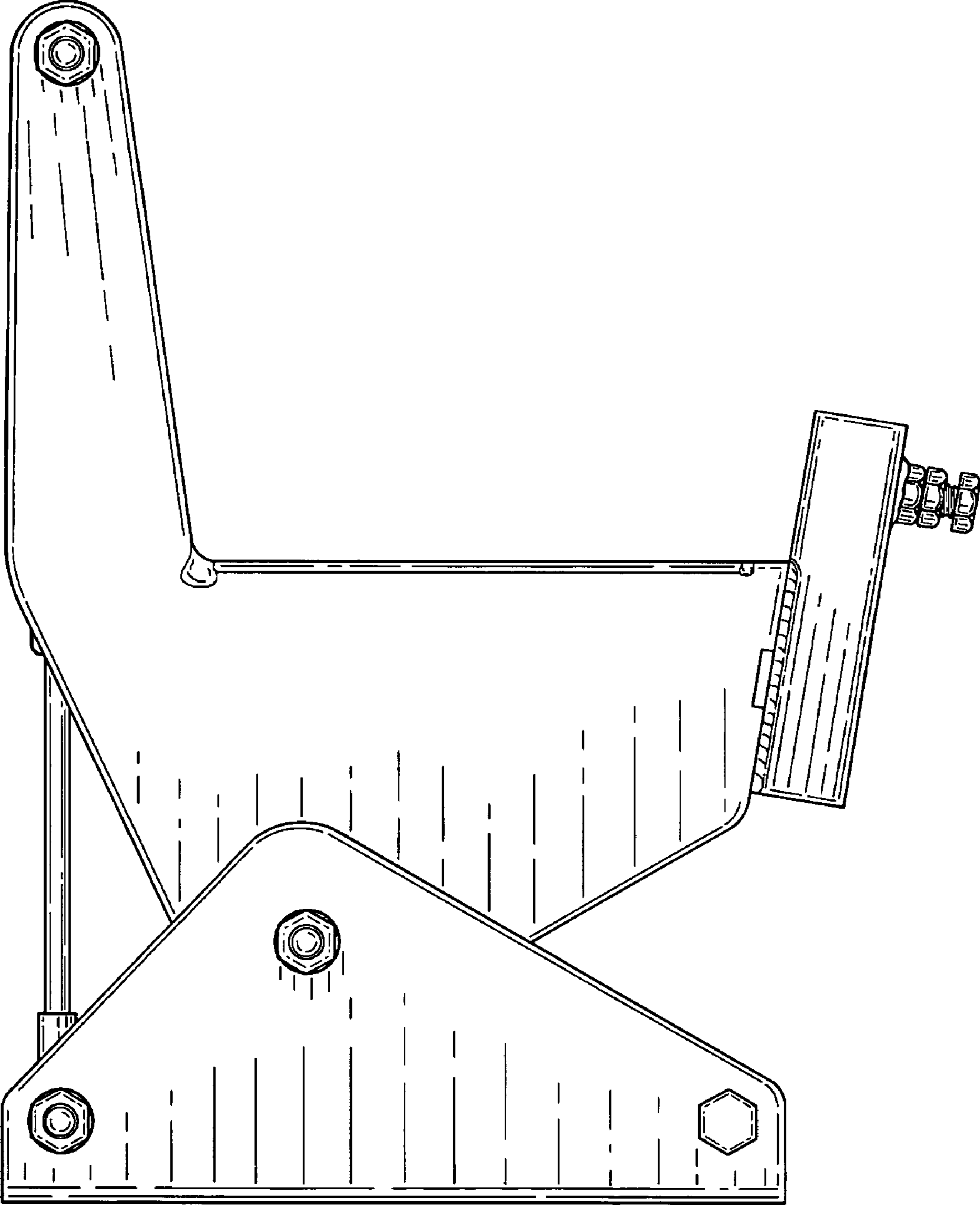


Fig. 13

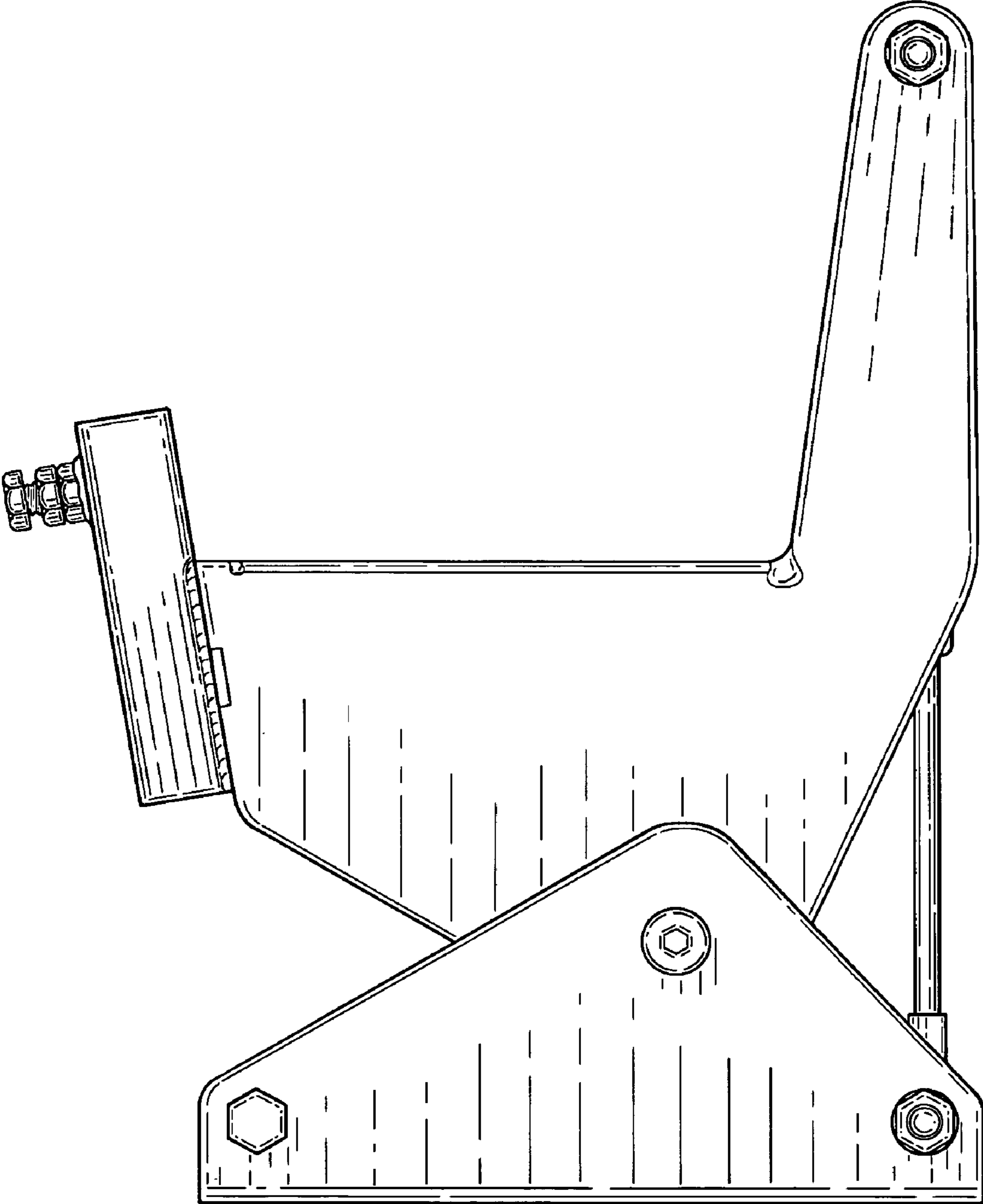


Fig. 14