



US00D677703S

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

(10) **Patent No.:** **US D677,703 S**
(45) **Date of Patent:** **** Mar. 12, 2013**

(54) **HYDRAULIC EXCAVATOR**

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

(21) Appl. No.: **29/430,480**

(22) Filed: **Aug. 27, 2012**

(30) **Foreign Application Priority Data**

Mar. 15, 2012 (JP) 2012-005872

(51) **LOC (9) Cl.** **12-09**

(52) **U.S. Cl.** **D15/25**

(58) **Field of Classification Search** D15/10,
D15/22-26; 37/403, 411, 443; 414/685,
414/686, 688, 722-724; 180/89.13

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,397,481 A * 8/1983 Dion et al. 280/781
D271,396 S * 11/1983 Inui D15/24
5,544,435 A * 8/1996 Somero 37/405

5,590,482 A * 1/1997 Peterson et al. 37/403
D391,272 S * 2/1998 Jin et al. D15/25
D409,629 S * 5/1999 Miyaoka et al. D15/25
D437,602 S * 2/2001 Hiraoka et al. D15/25
D460,975 S * 7/2002 Yanagida et al. D15/25
D462,973 S * 9/2002 Tamaru et al. D15/25
D462,974 S * 9/2002 Yanagida et al. D15/25
D534,552 S * 1/2007 Yanagida D15/25

FOREIGN PATENT DOCUMENTS

CN 301611810 S 7/2011
JP D 1240324 S 5/2005
JP D 1342289 S 10/2008

OTHER PUBLICATIONS

U.S. Appl. No. D 29/430,477, filed Aug. 27, 2012, Hiraoka et al.

* cited by examiner

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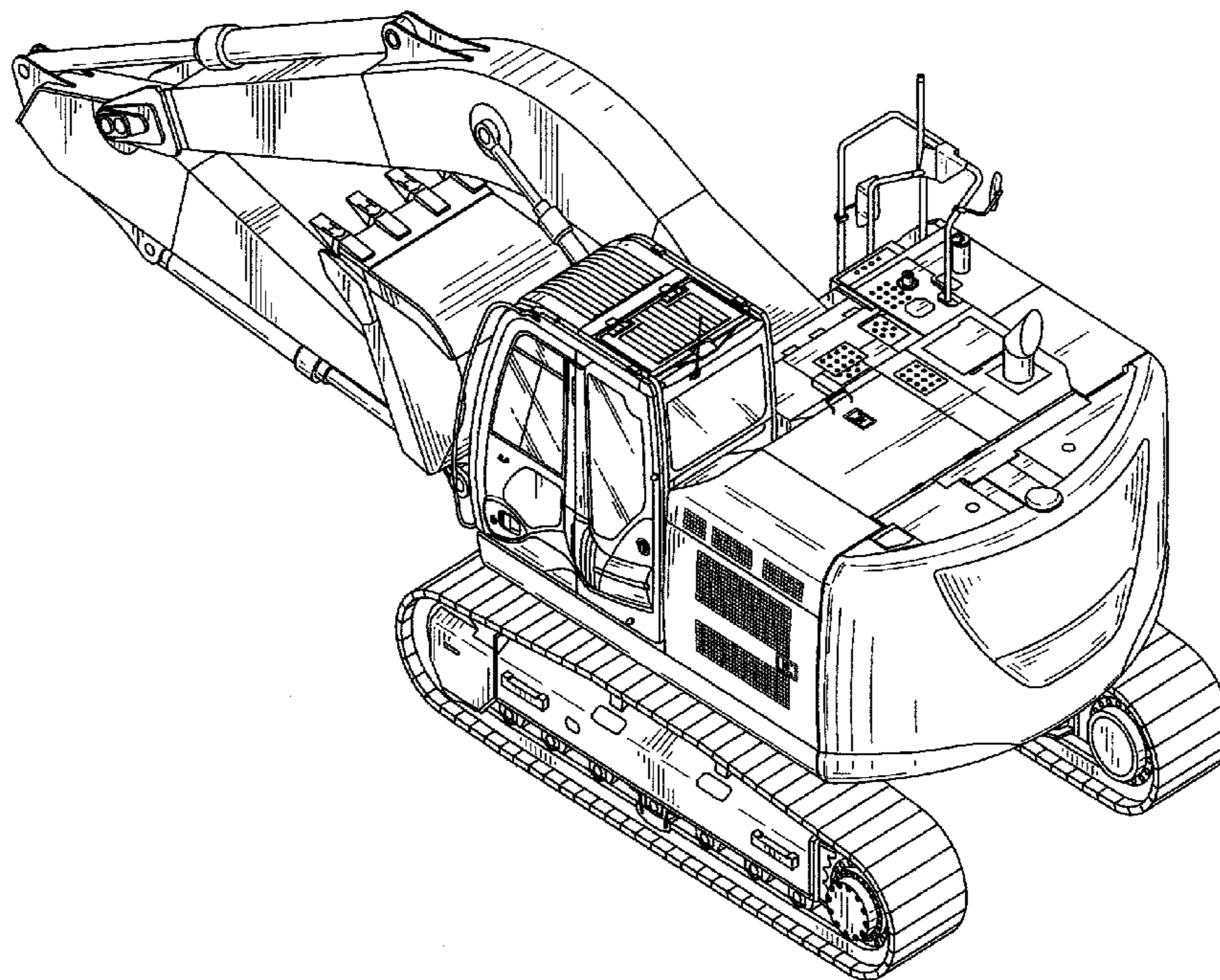
(57) **CLAIM**

The ornamental design for a hydraulic excavator, as shown and described.

DESCRIPTION

FIG. 1 is a front, top, and right side perspective view of a hydraulic excavator showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof.

1 Claim, 6 Drawing Sheets



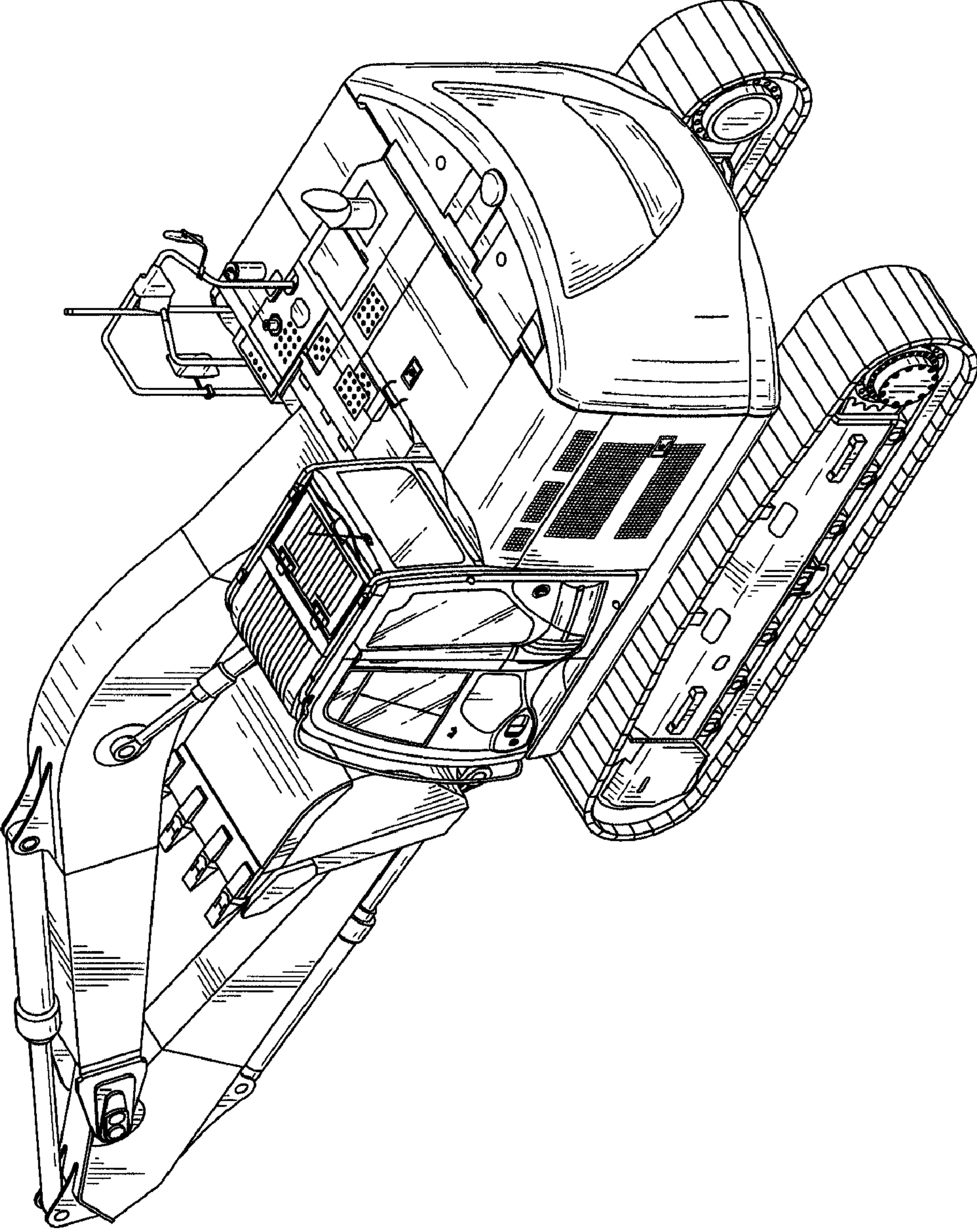


FIG. 1

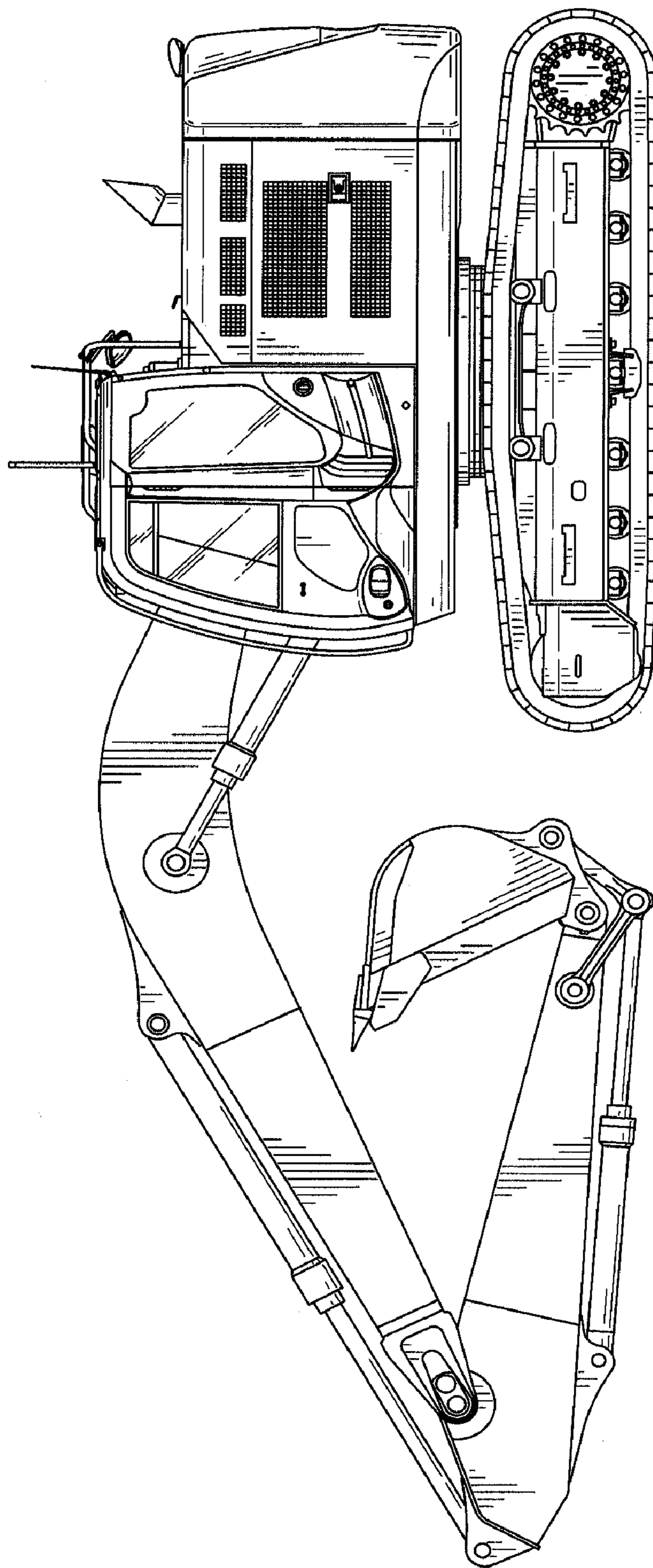


FIG. 2

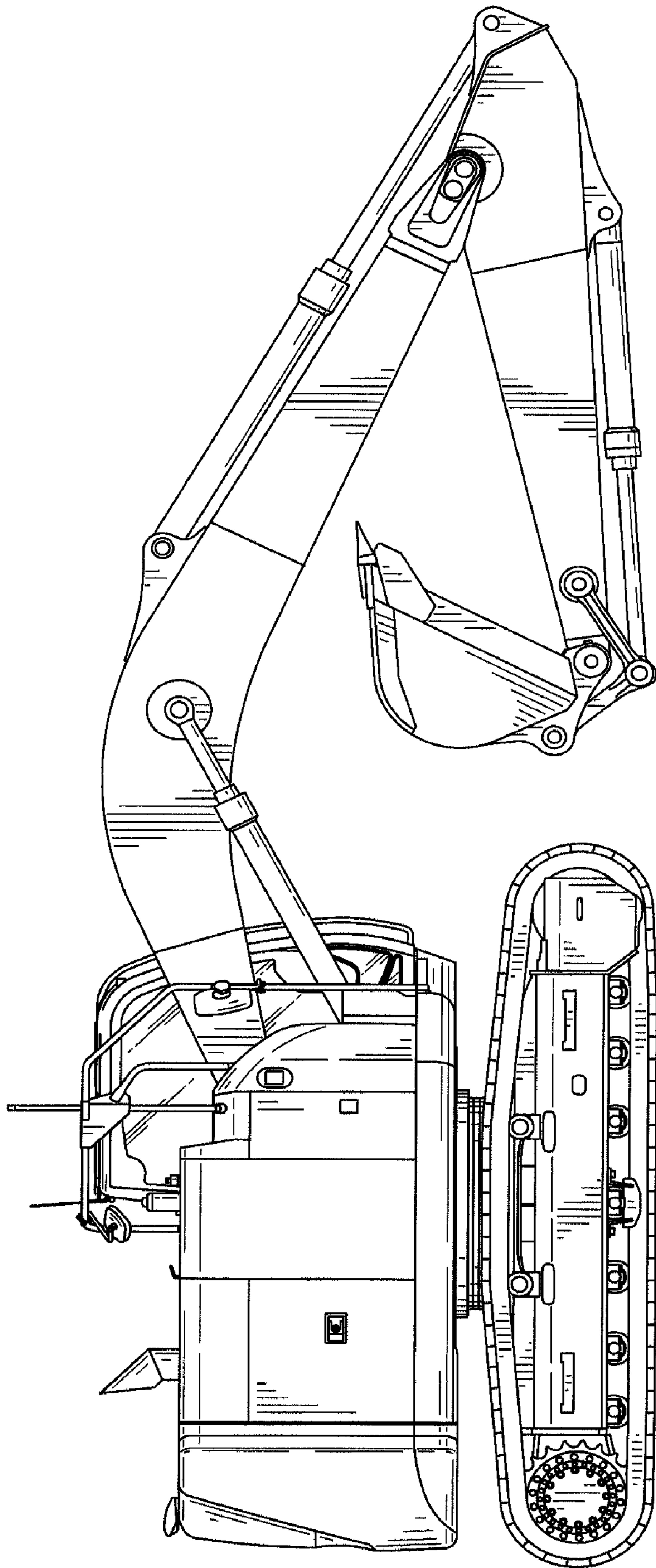


FIG. 3

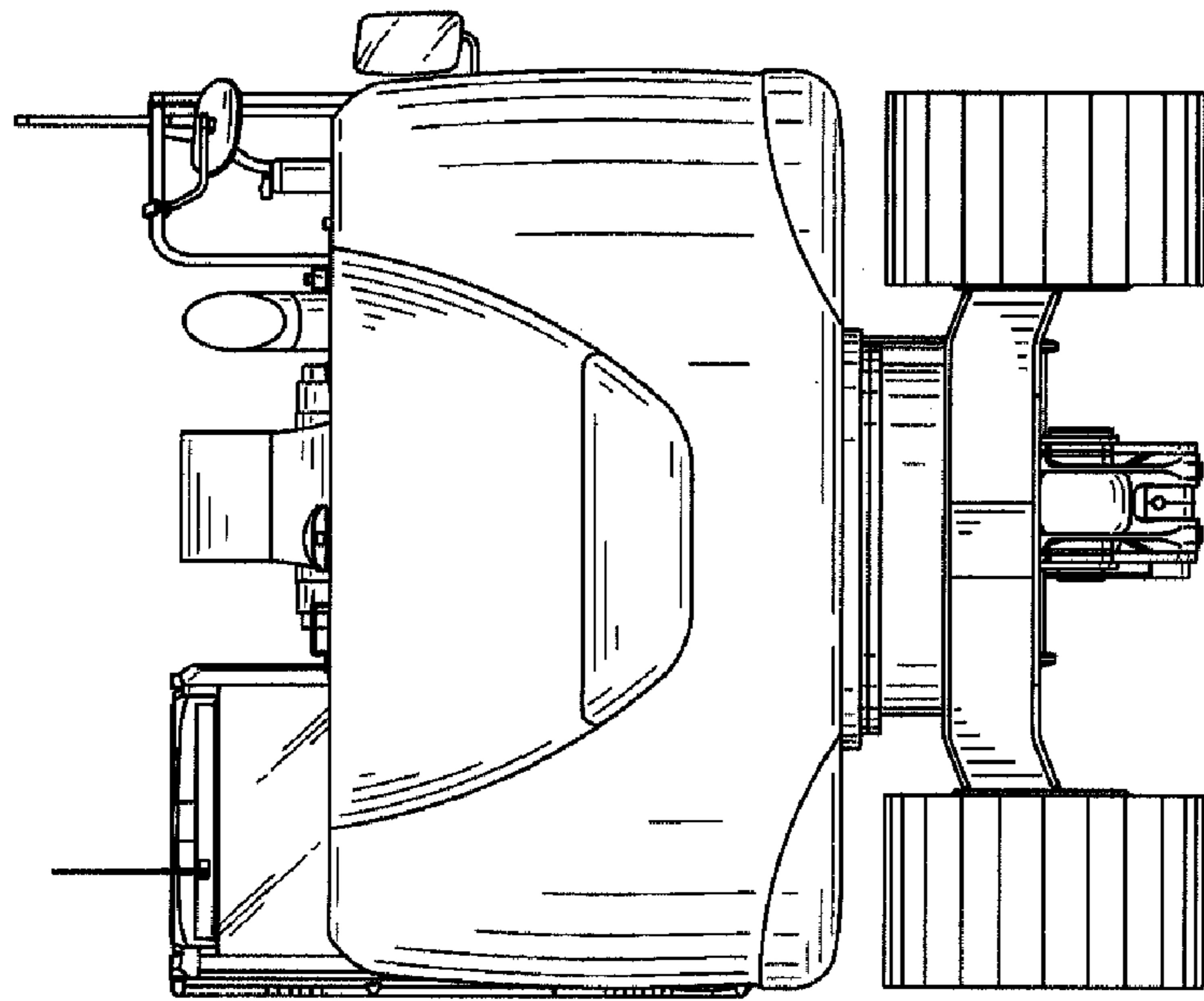


FIG. 5

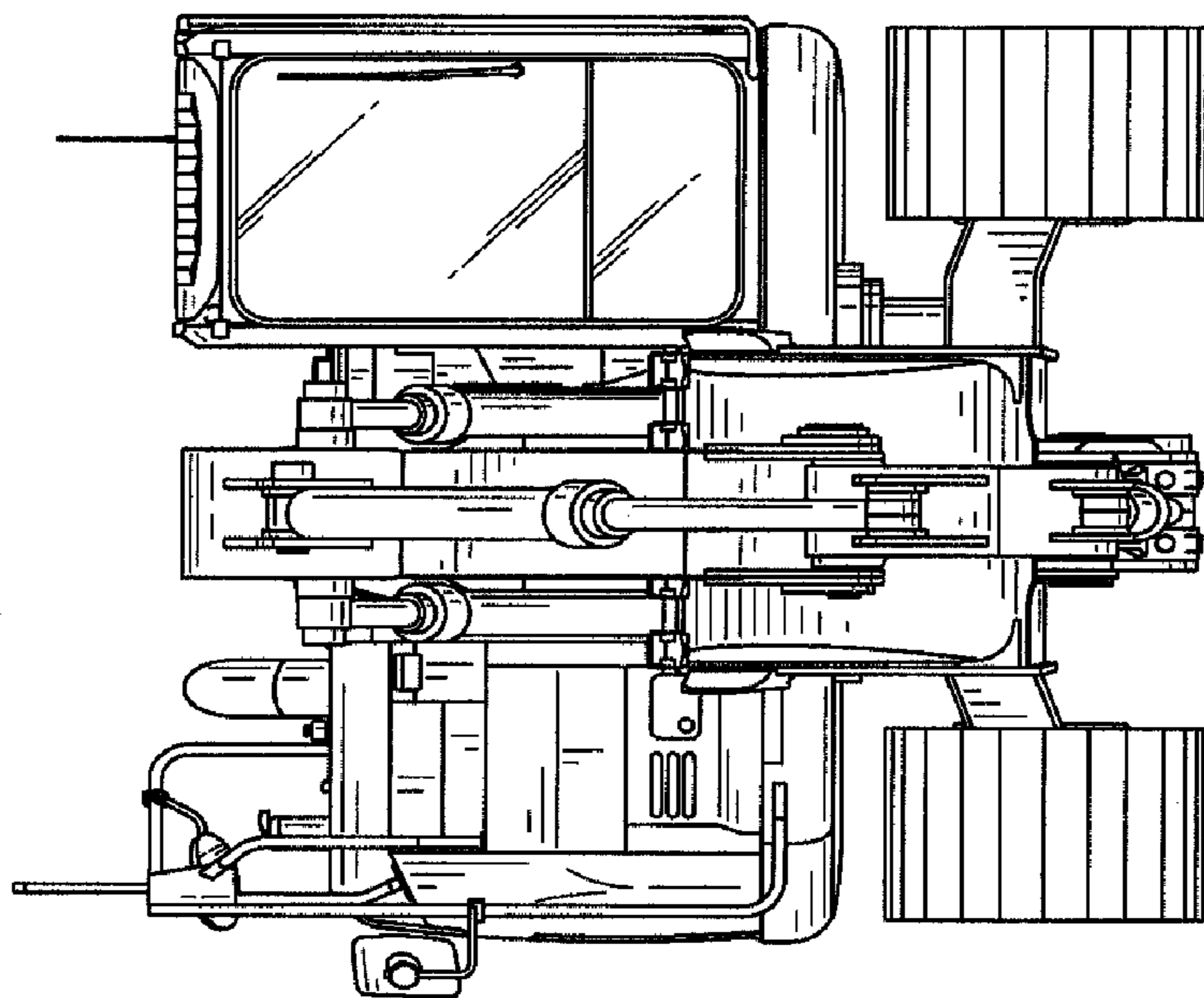


FIG. 4

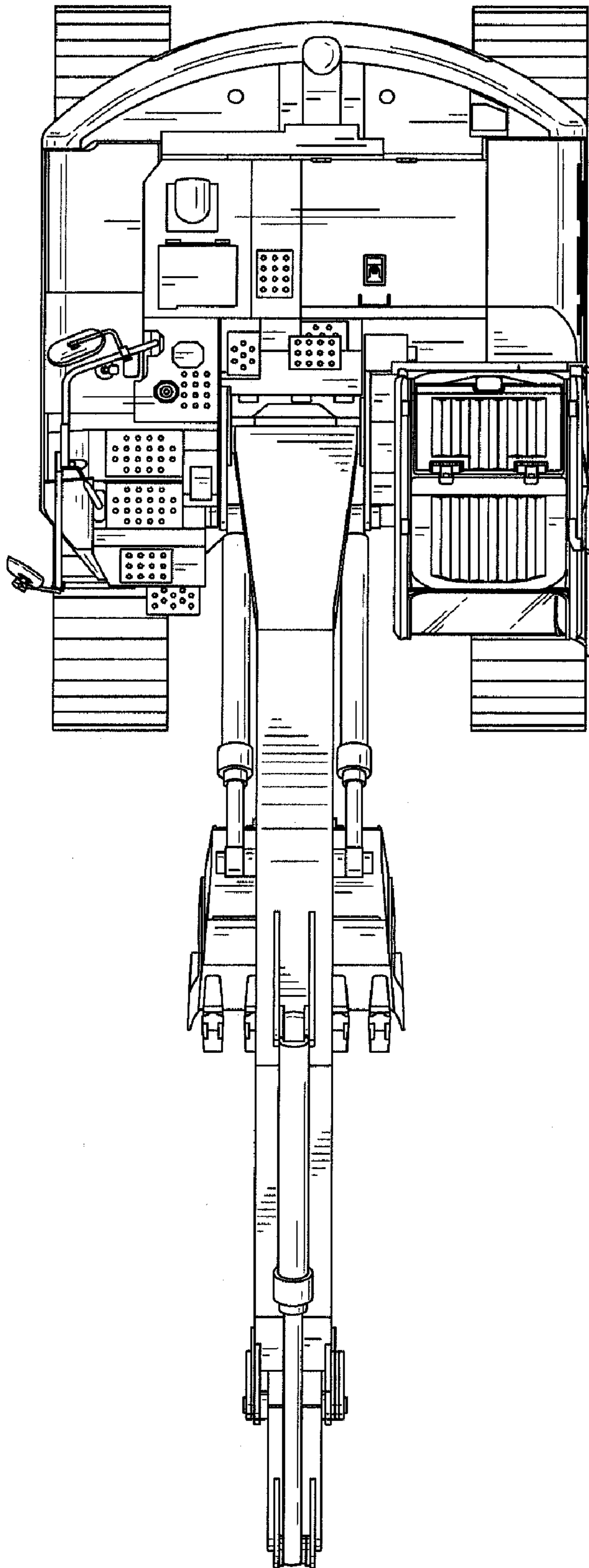


FIG. 6

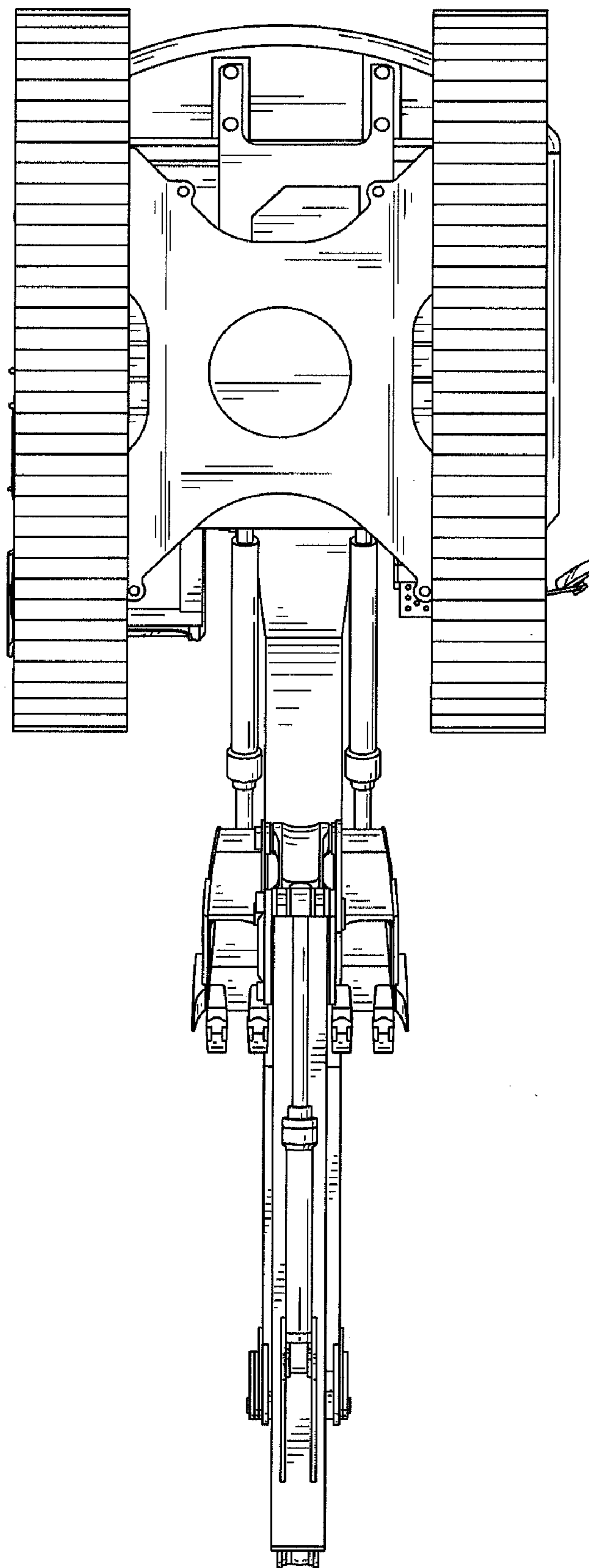


FIG. 7