



US00D768215S

(12) **United States Design Patent** (10) **Patent No.:** **US D768,215 S**
Funakoshi et al. (45) **Date of Patent:** **** Oct. 4, 2016**

(54) **CASTING MACHINE**

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(**) Term: **15 Years**

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/135**

(58) **Field of Classification Search**
USPC D15/122, 135, 136, 137
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D153,578 S * 5/1949 Bohannon D15/135
3,170,203 A * 2/1965 Harrison B22D 17/14
164/253

(Continued)

FOREIGN PATENT DOCUMENTS

JP H9-225622 A 9/1997
JP 2003-205359 A 7/2003

(Continued)

OTHER PUBLICATIONS

International Bureau of WIPO, Search Report in WO Patent Application No. PCT/JP2015/066787, mailed Aug. 25, 2015 (see listing of references on p. 4; second p. of PCT/ISA/210).

Primary Examiner — Patricia Palasik

(74) *Attorney, Agent, or Firm* — Leydig, Voit & Mayer

(57) **CLAIM**

The ornamental design for a casting machine, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a casting machine of the present invention, including surrounding wall portions, a main body portion, a lower mold portion, and an upper mold portion. FIG. 2 is a rear view of the casting machine of FIG. 1. FIG. 3 is a top plan view of the casting machine of FIG. 1. FIG. 4 is a bottom plan view of the casting machine of FIG. 1.

FIG. 5 is a right side view of the casting machine of FIG. 1. FIG. 6 is a left side view of the casting machine of FIG. 1. FIG. 7 is a perspective view of the casting machine of FIG. 1.

FIG. 8 is a perspective view of the main body portion of the casting machine & FIG. 1, which is equivalent to the perspective view of the casting machine of the FIG. 1 without the surrounding wall portions shown removed for clarity of disclosure.

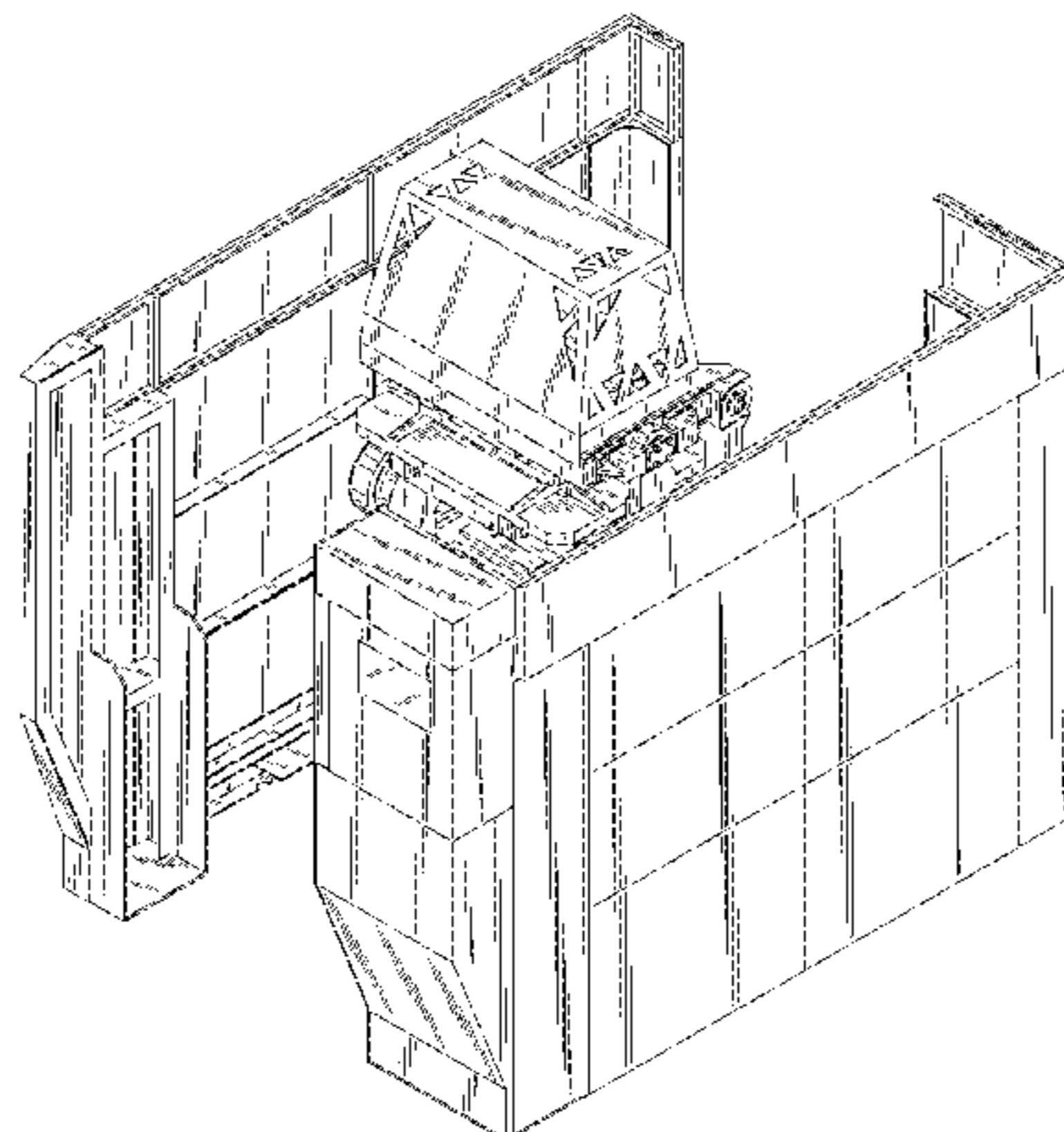
FIG. 9 is a perspective view of the main body portion of the casting machine of FIG. 1, which is equivalent to the perspective view of the casting machine of FIG. 1 without the surrounding wall portions, showing the lower mold portion moved forward and shown removed for clarity of disclosure.

FIG. 10 is a perspective view of the main body portion of the casting machine of FIG. 1, which is equivalent to the perspective view of the casting machine of FIG. 1 without the surrounding wall portions, showing the upper and lower mold portions in a closed state and shown removed for clarity of disclosure.

FIG. 11 is a perspective view of the main body portion of the casting machine of FIG. 1, which is equivalent to the perspective view of the casting machine of the FIG. 1 without the surrounding wall portions, showing the mold portions in a tilted state; and,

FIG. 12 is a perspective view of the main body portion of the casting machine of FIG. 1, which is equivalent to the perspective view of the casting machine of the FIG. 1 without the surrounding wall portions, showing the upper mold portion moved forward.

1 Claim, 12 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D208,431 S * 8/1967 Paulson D15/135
 3,547,184 A * 12/1970 Navarro B22D 17/10
 164/312
 3,799,240 A * 3/1974 Baumann B22D 13/023
 164/298
 3,866,666 A * 2/1975 Wunder B22D 17/00
 164/327
 3,971,432 A * 7/1976 Hardey B22D 17/04
 164/318
 4,088,175 A * 5/1978 Cecere B22D 27/15
 164/114
 4,154,286 A * 5/1979 Glazunov B22D 17/10
 164/133
 4,240,497 A * 12/1980 Glazunov B22D 17/10
 164/158
 4,345,893 A * 8/1982 Prince B22D 17/10
 425/190
 D266,327 S * 9/1982 Haight D15/135
 4,385,877 A * 5/1983 Tanabe B29C 45/0013
 425/3
 4,417,616 A * 11/1983 Seitz B22D 17/26
 164/113
 4,595,044 A * 6/1986 Caugherty B22D 17/2015
 164/312
 4,706,484 A * 11/1987 Dittmar B21B 13/10
 72/225
 4,719,676 A * 1/1988 Sansone B23B 3/30
 29/26 A
 D296,701 S * 7/1988 Lindell D15/135
 D330,899 S * 11/1992 Holbl D15/135
 D331,248 S * 11/1992 Yeh D15/135
 5,207,264 A * 5/1993 You B22D 17/12
 164/312
 D336,479 S * 6/1993 Shuji Shinagawa D15/135
 5,379,827 A * 1/1995 Perrella B22D 17/2015
 164/316

D357,484 S * 4/1995 Montague D15/135
 5,595,236 A * 1/1997 Lee B22D 17/10
 164/319
 5,964,274 A * 10/1999 Brinkley B29C 45/2673
 164/312
 D472,908 S * 4/2003 Schaer D15/147
 6,772,819 B2 * 8/2004 Shiose B22D 18/04
 164/119
 6,942,010 B2 * 9/2005 Osugi B22D 23/006
 164/336
 6,978,823 B2 * 12/2005 Thibault B22D 17/2015
 164/316
 D547,336 S * 7/2007 Kai D15/122
 D553,653 S * 10/2007 Kai D15/122
 D617,356 S * 6/2010 Wang D15/135
 7,806,161 B2 * 10/2010 Jezwinski B22C 11/10
 164/130
 D651,623 S * 1/2012 Stillwell D15/135
 8,225,842 B2 * 7/2012 Taniguchi B22D 17/10
 164/303
 8,261,809 B2 * 9/2012 Shiose B22D 18/04
 164/119
 D690,331 S * 9/2013 Kitamura D15/122
 D733,201 S * 6/2015 Baak D15/147
 9,156,085 B2 * 10/2015 Zammattio B22D 17/10
 9,289,821 B2 * 3/2016 Lee B22D 11/0622
 9,370,822 B2 * 6/2016 Boni B22D 18/08
 2008/0303183 A1 * 12/2008 Rote B29C 43/08
 264/219

FOREIGN PATENT DOCUMENTS

JP 2007-054850 A 3/2007
 JP 2010-005649 A 1/2010
 TW 442222 6/2001
 TW 200531764 A 10/2005
 TW 159161 3/2014

* cited by examiner

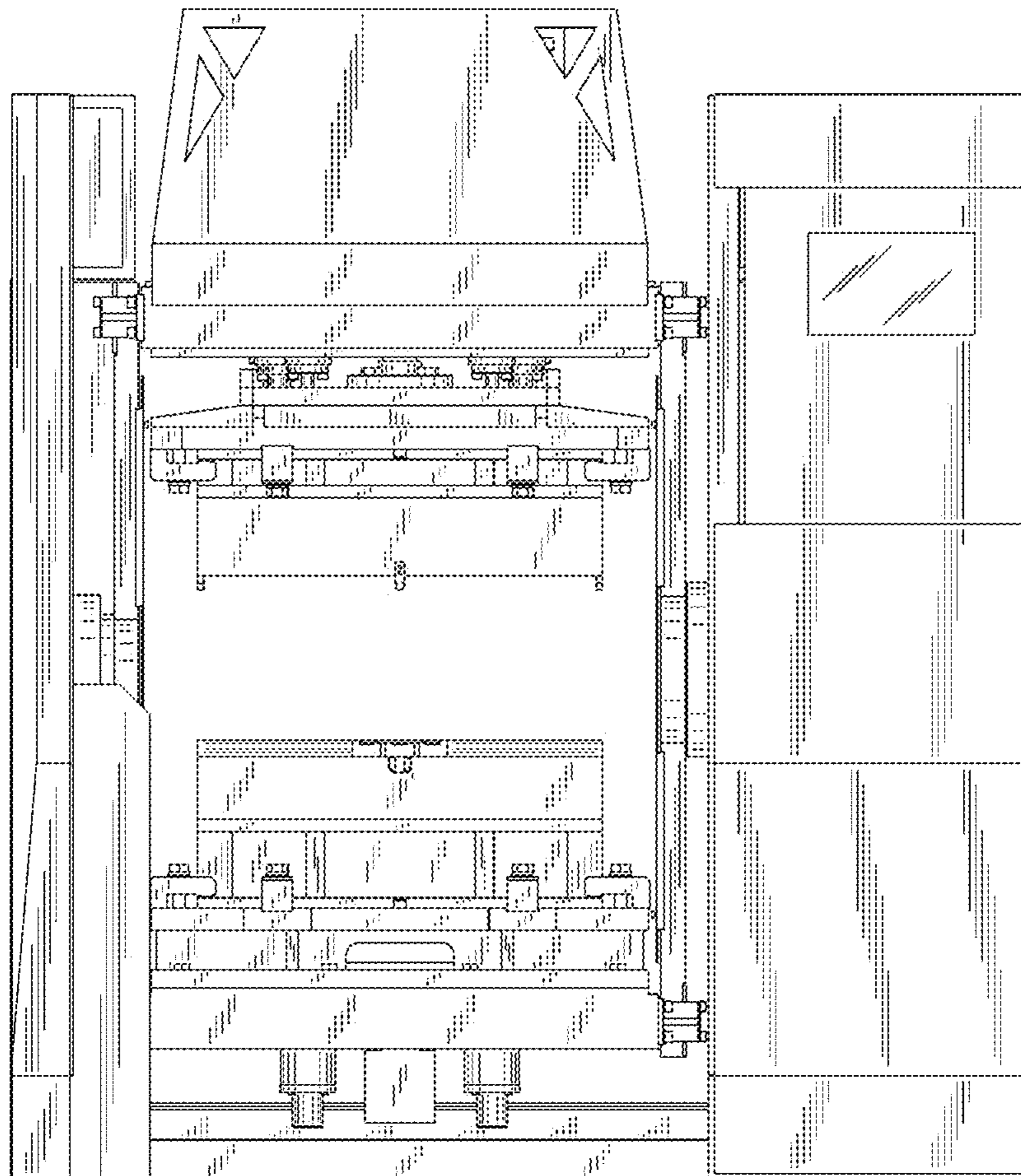


FIG. 1

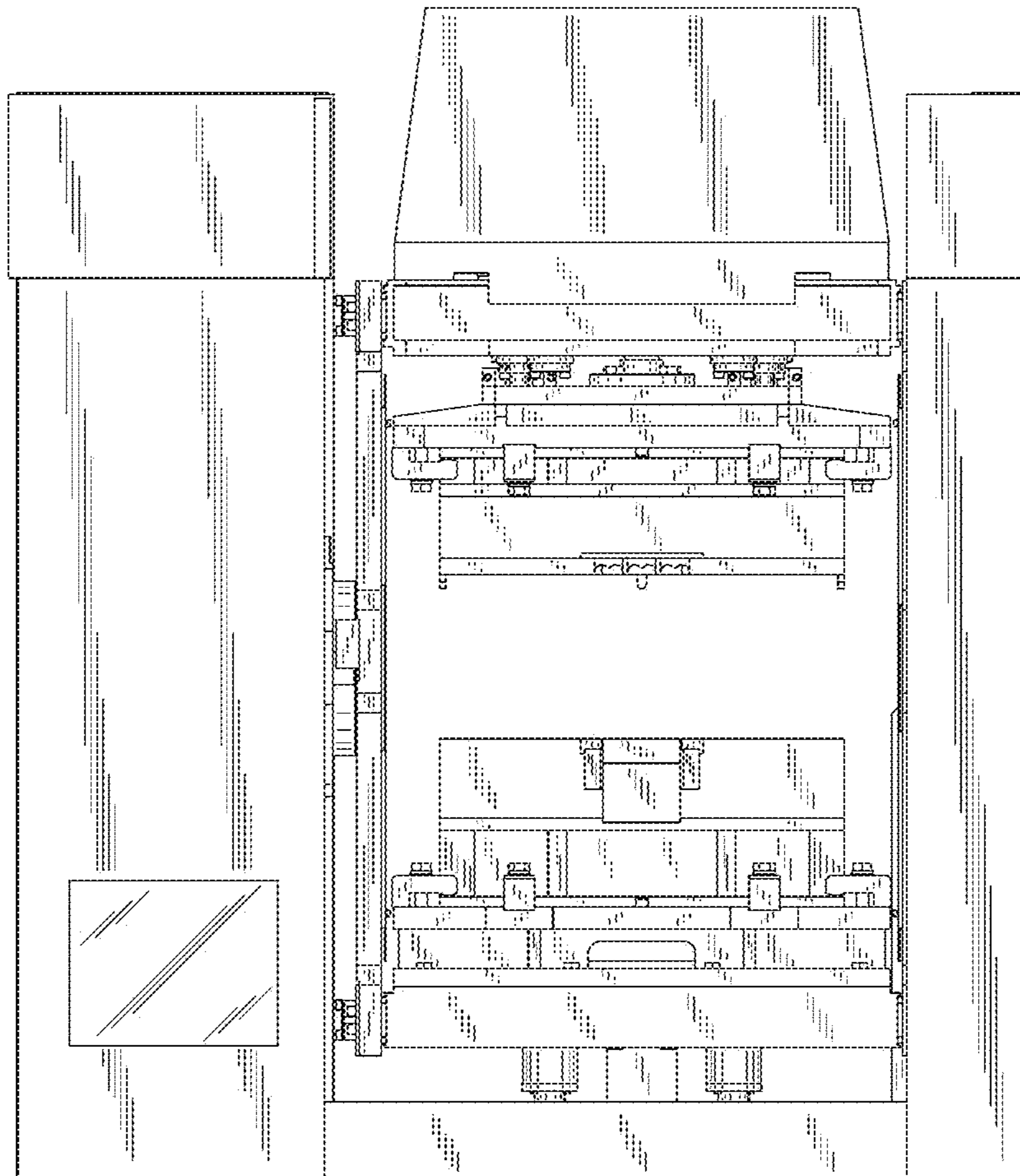


FIG. 2

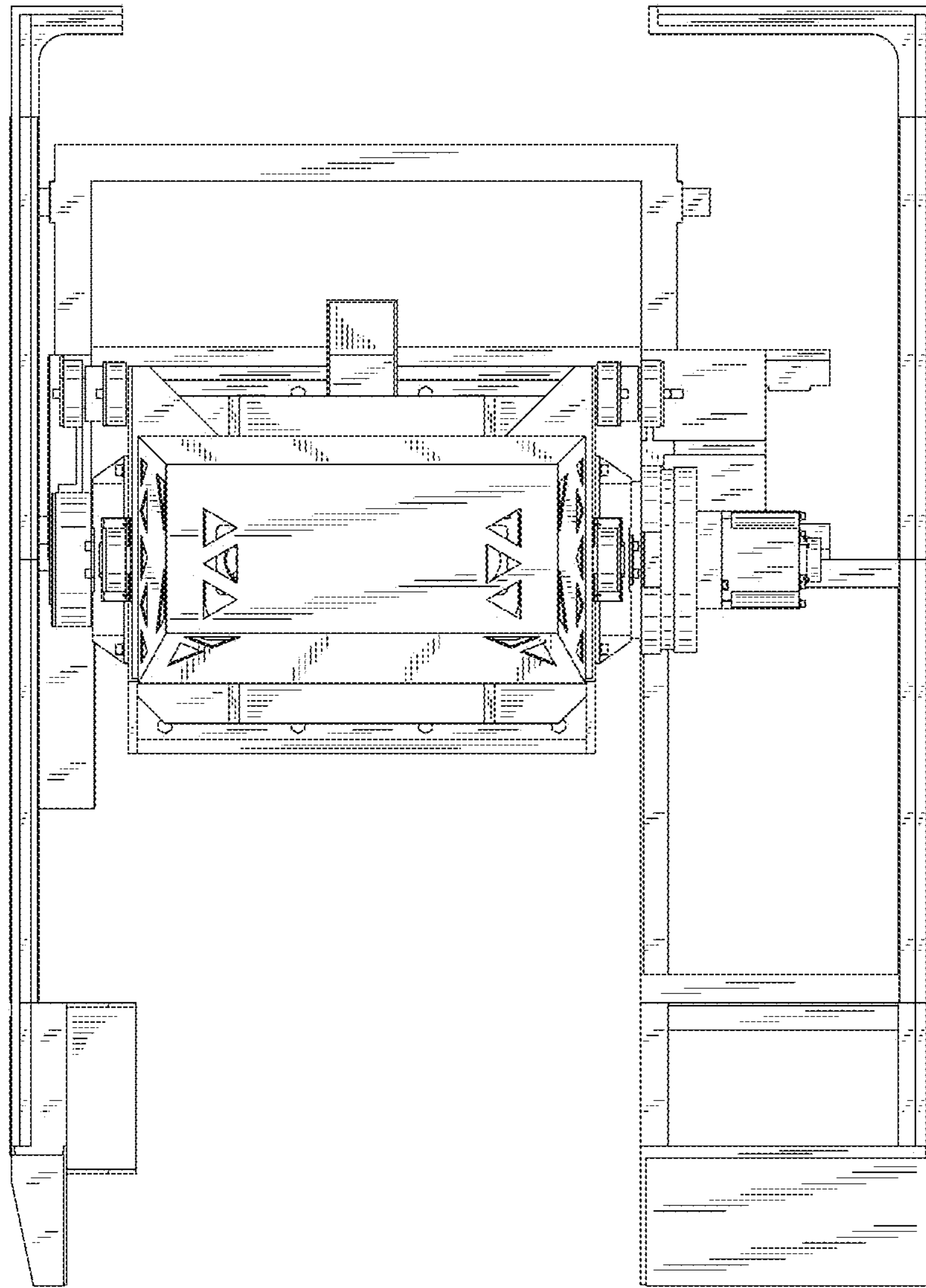


FIG. 3

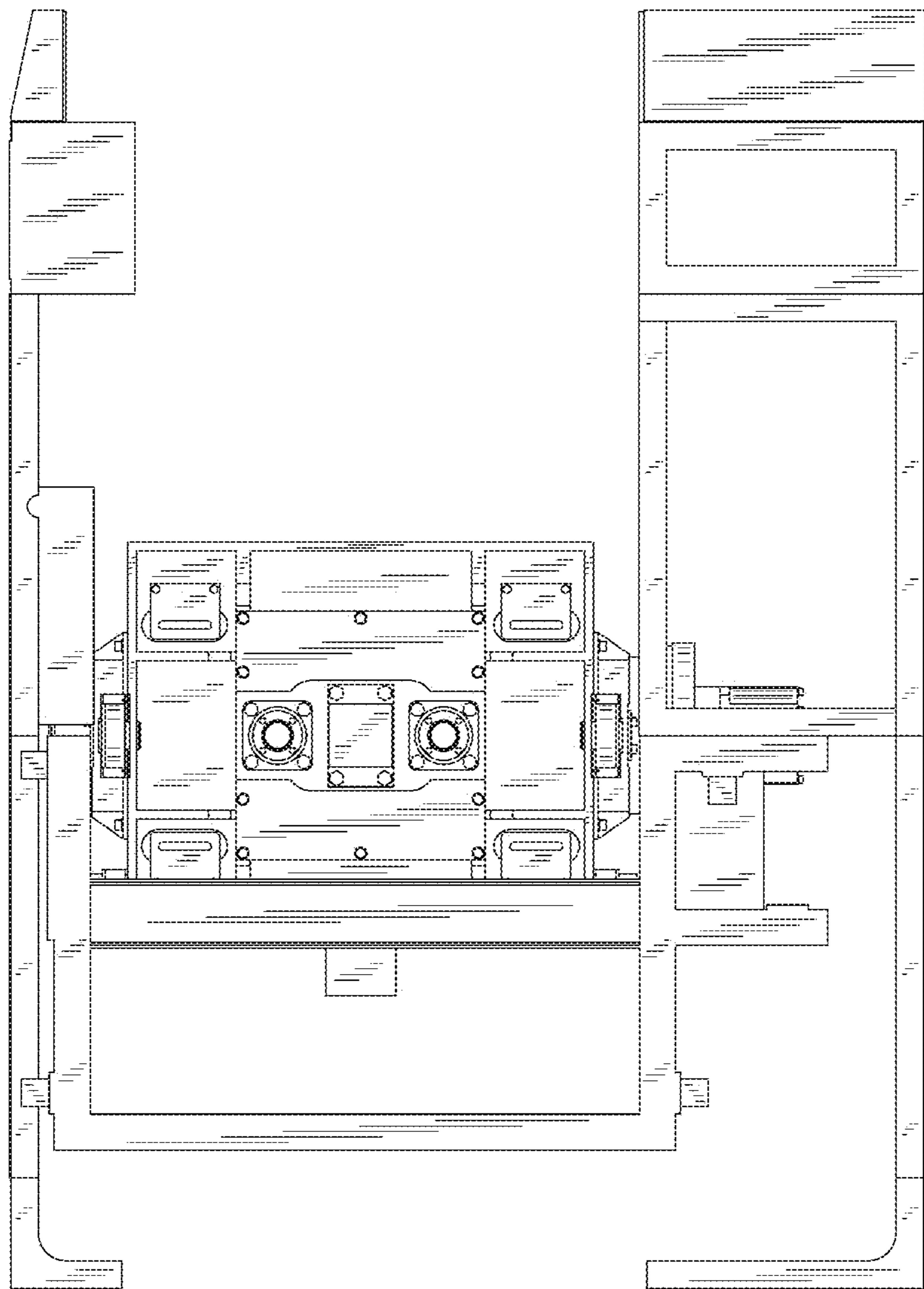


FIG. 4

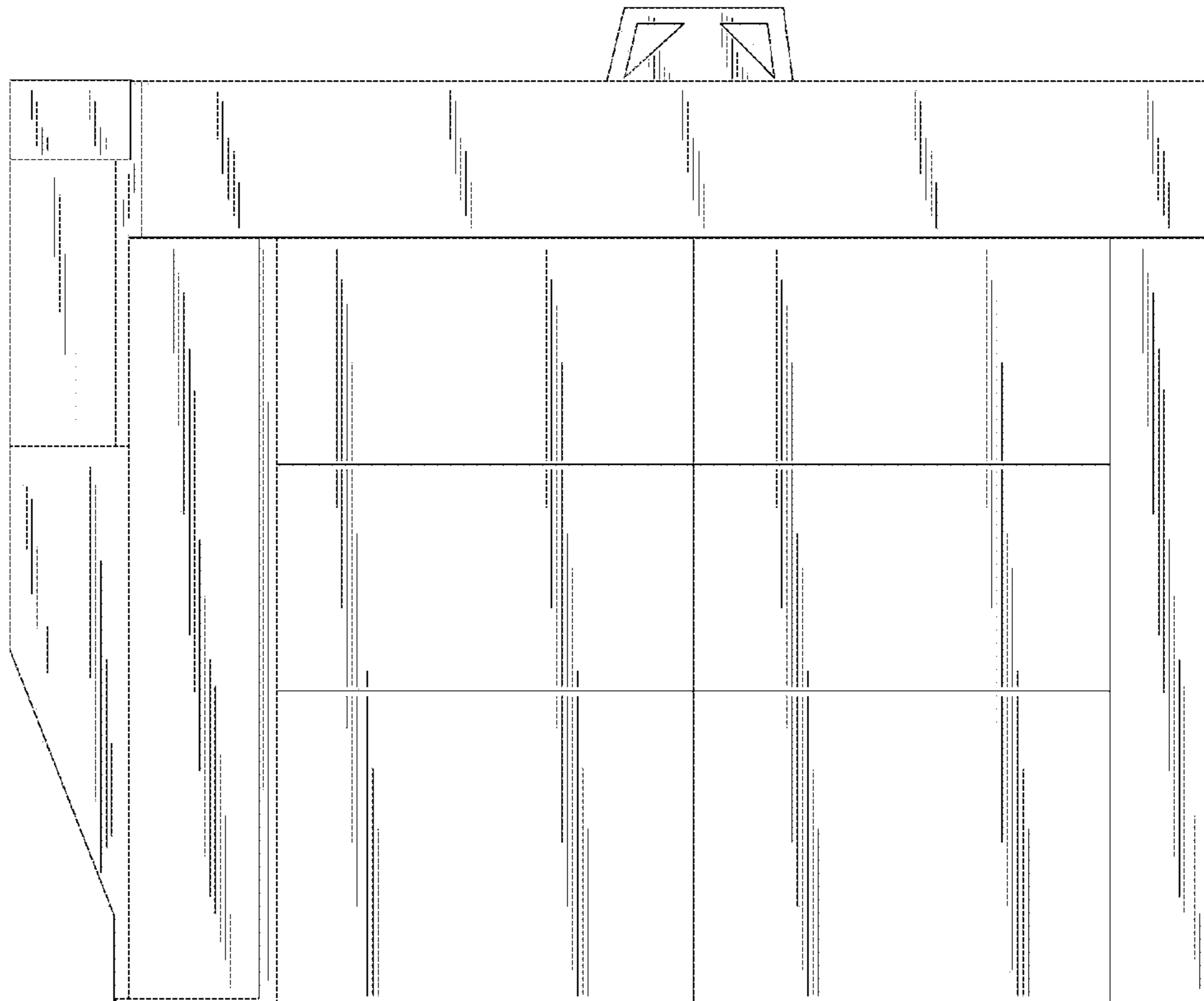


FIG. 5

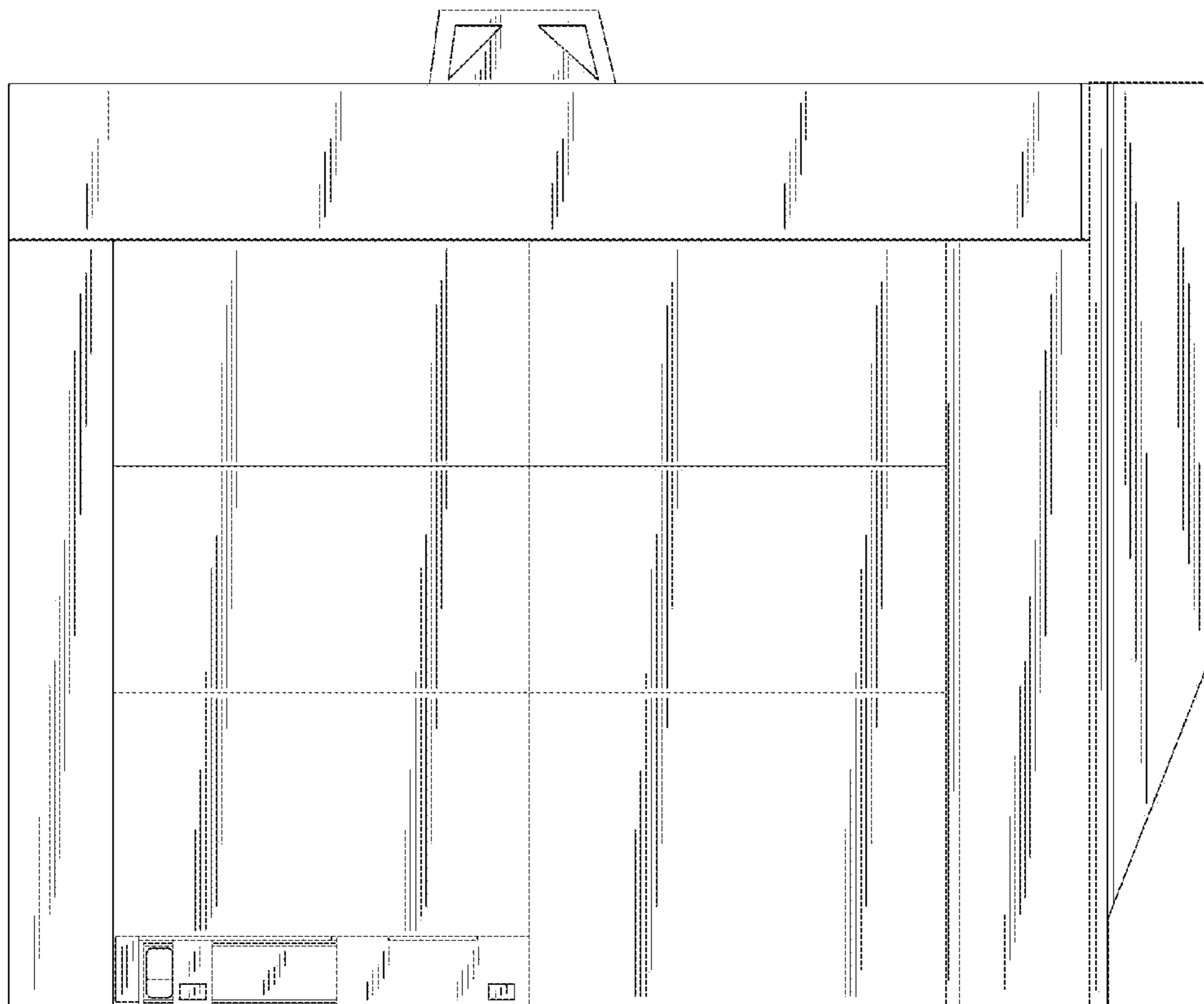


FIG. 6

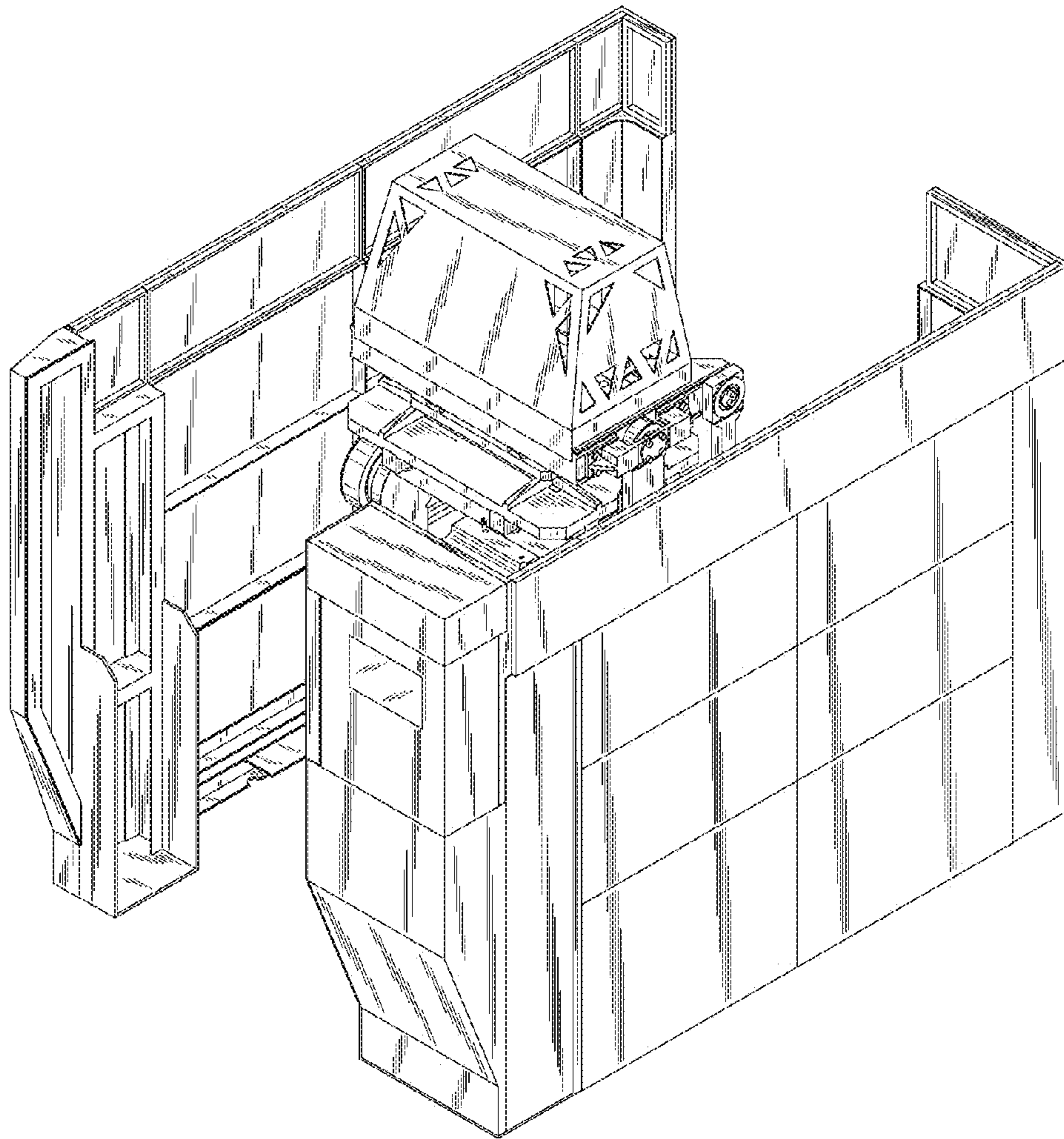


FIG. 7

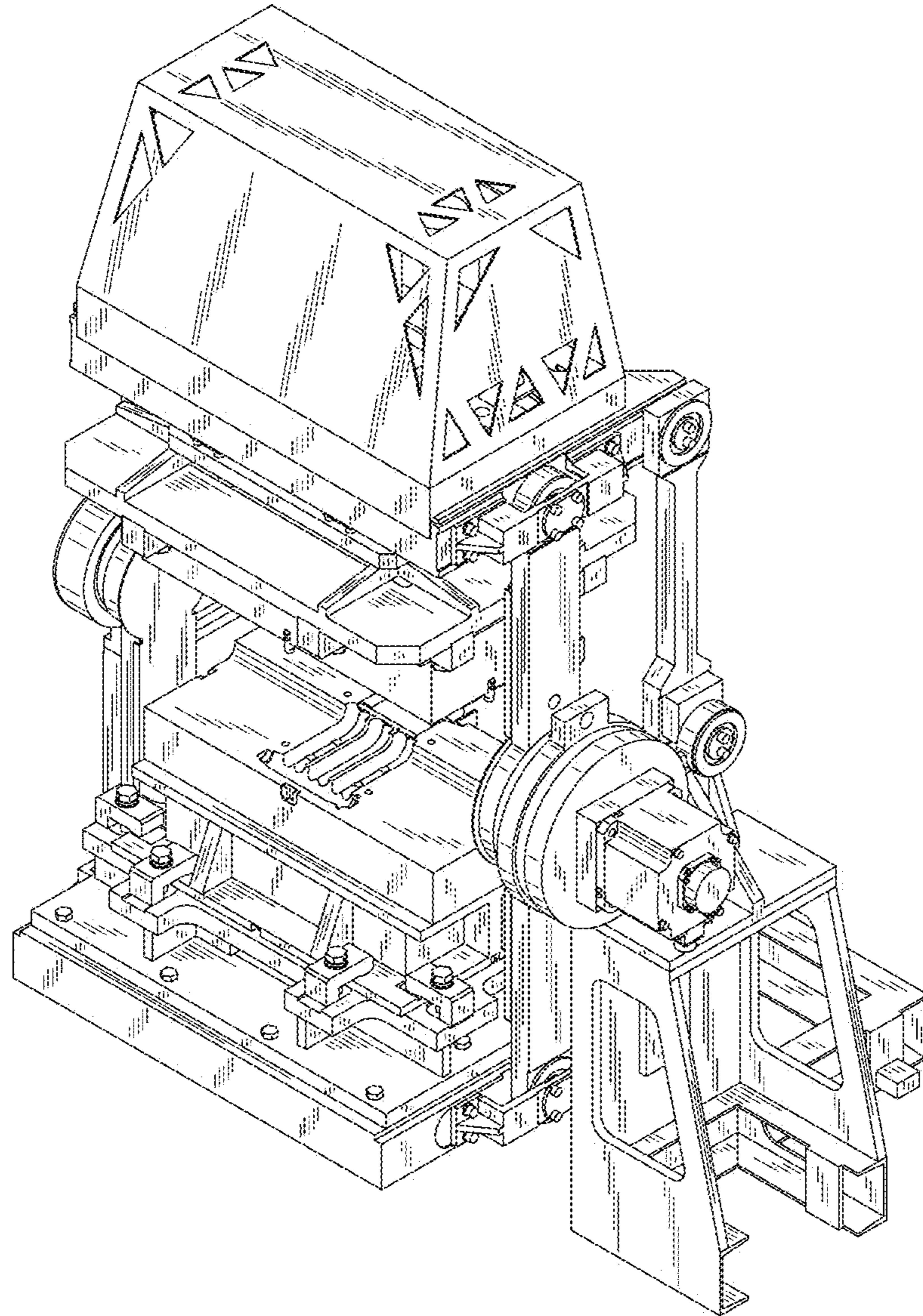


FIG. 8

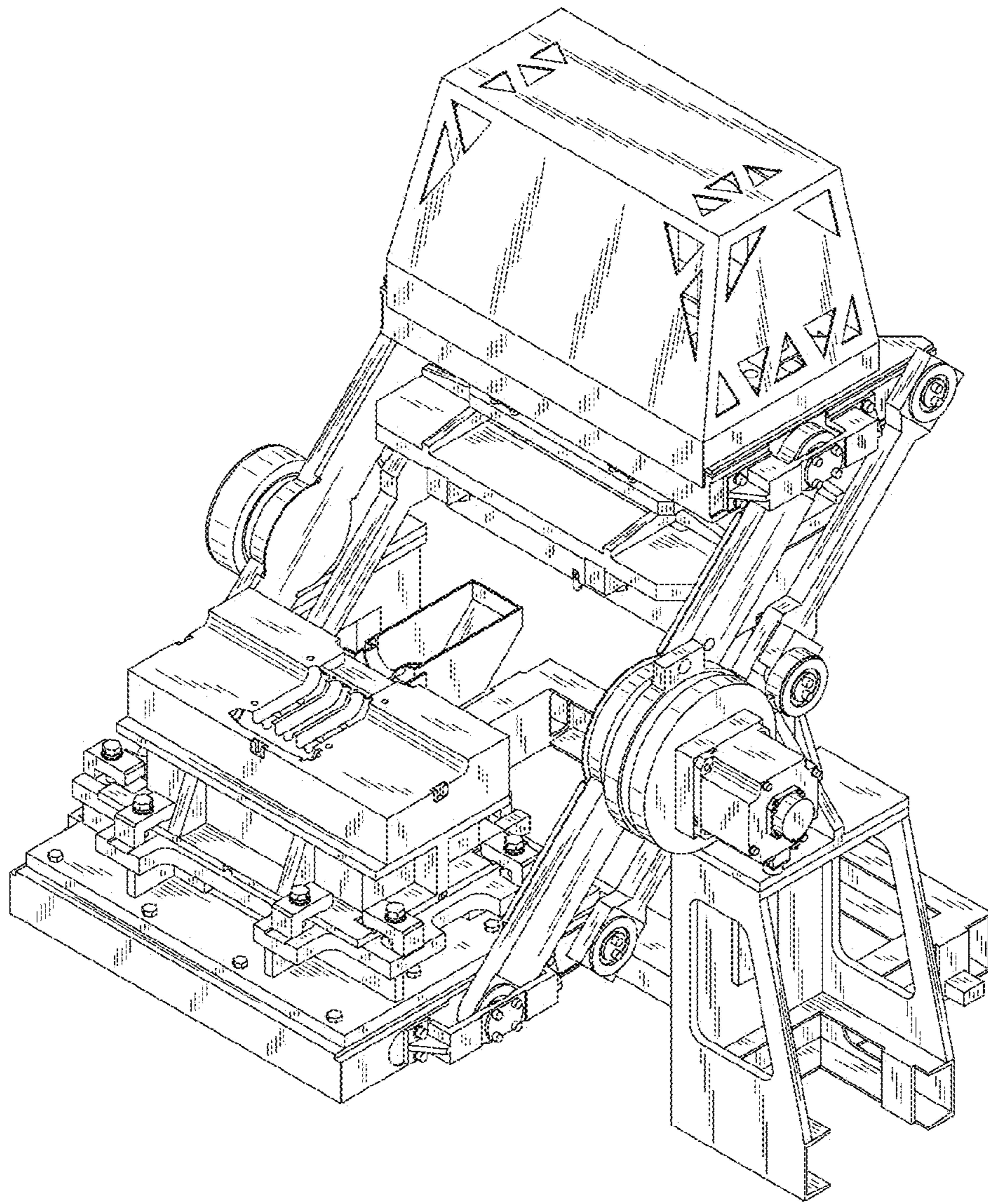


FIG. 9

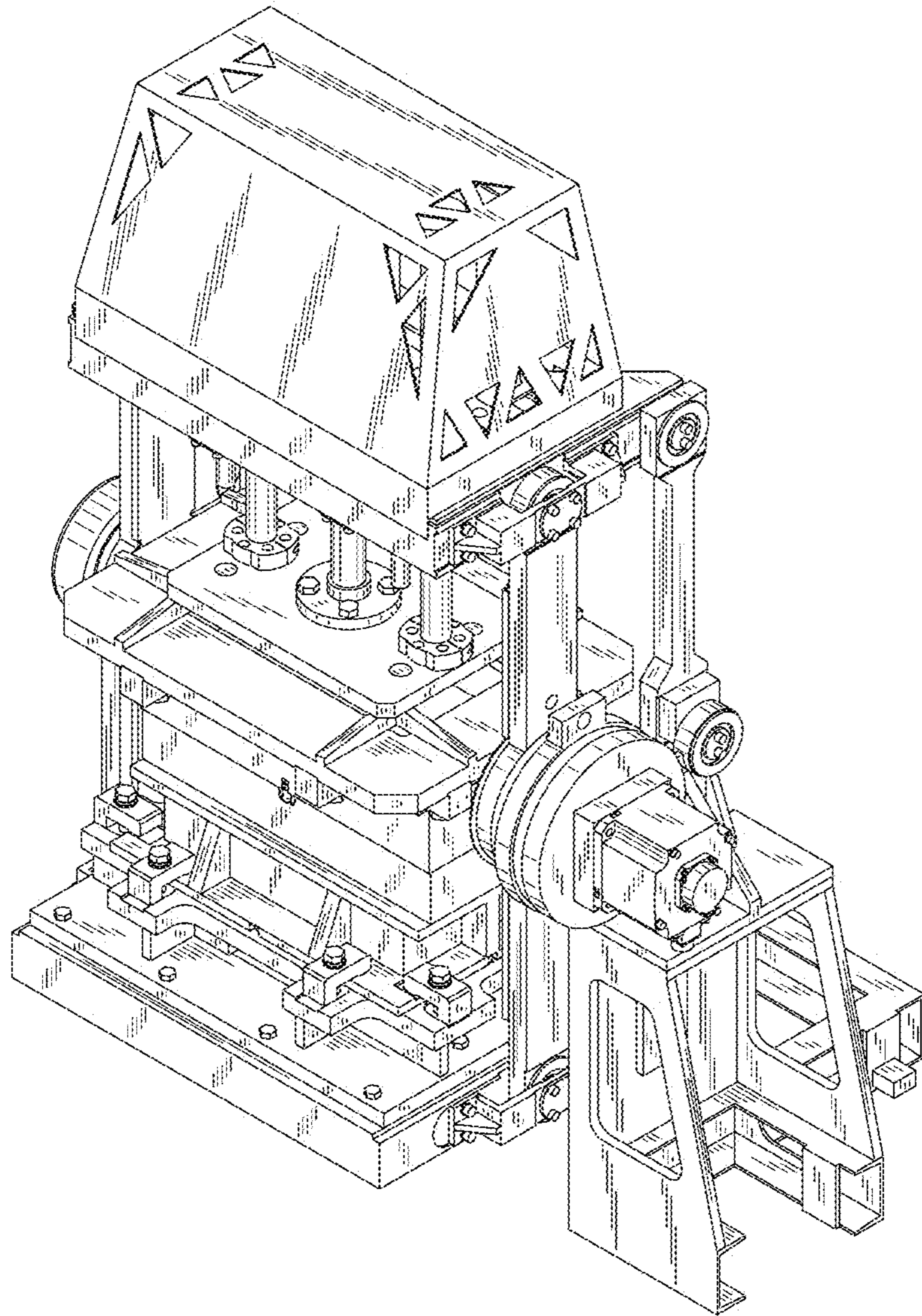


FIG. 10

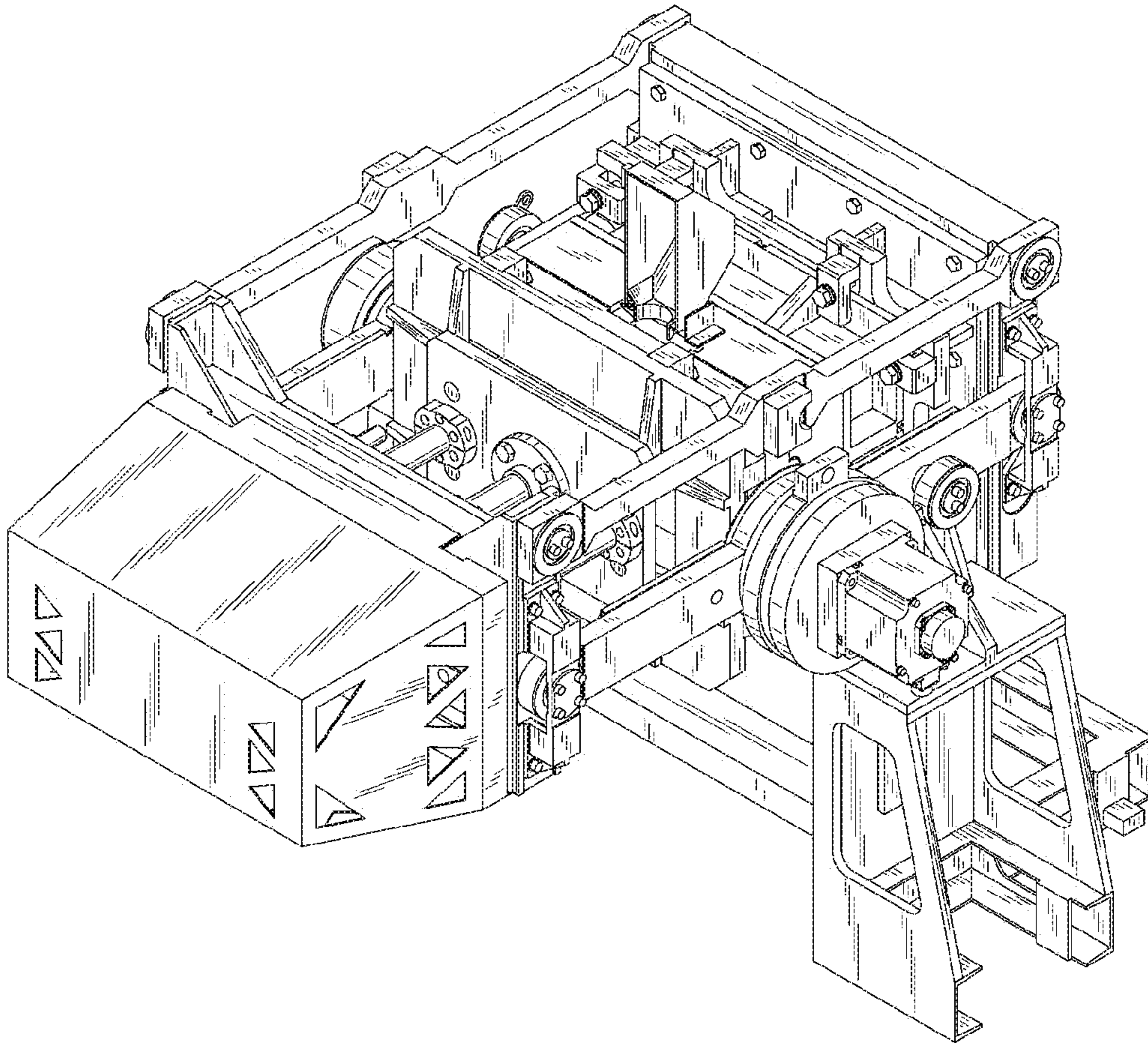


FIG. 11

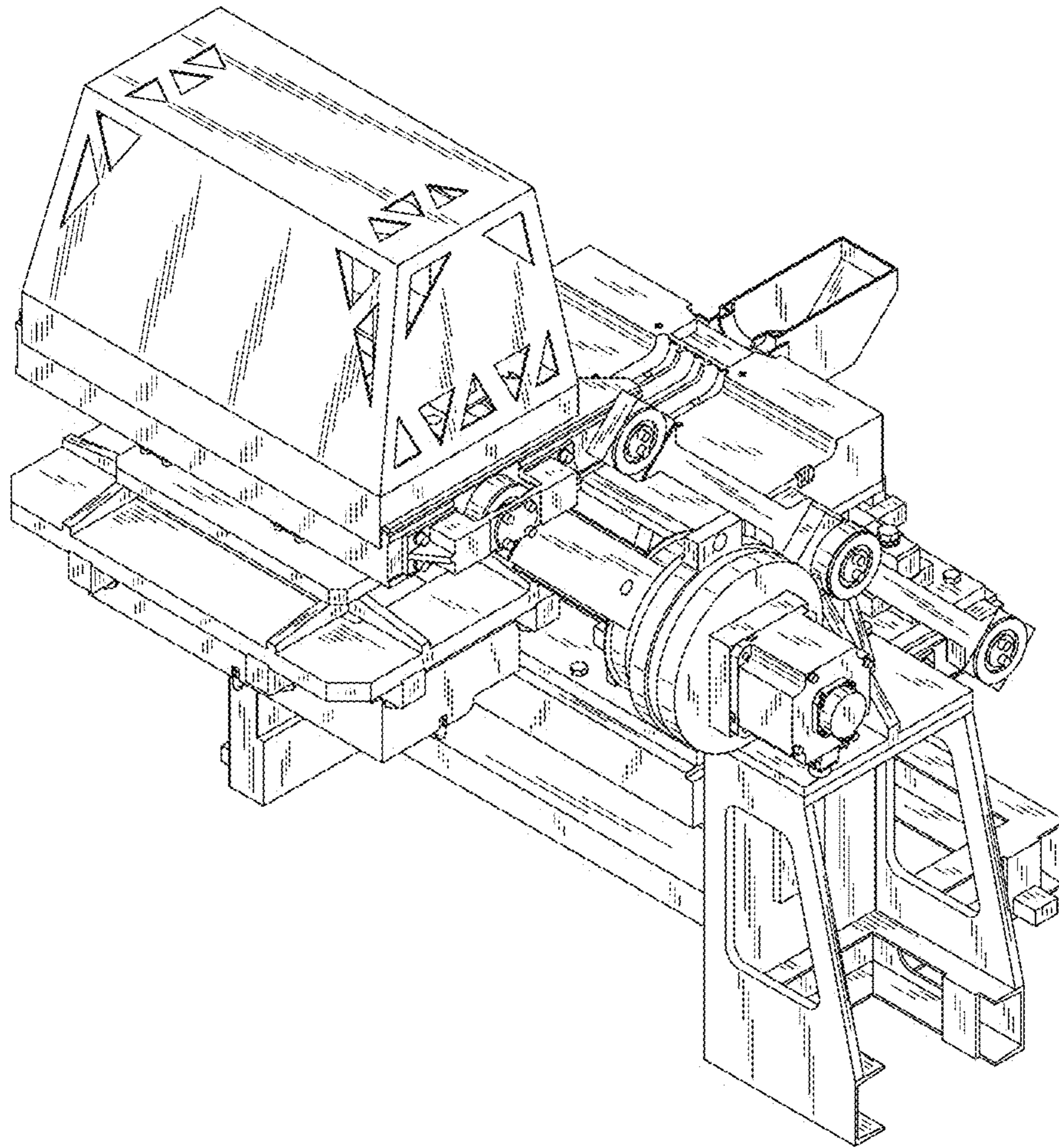


FIG. 12