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(12) **United States Design Patent**
Chu

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(54) **AIR COMPRESSOR**

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

(21) Appl. No.: **29/706,093**

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(51) **LOC (13) Cl.** **15-02**

(52) **U.S. Cl.**
USPC **D15/9**

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D9/689, 529; D12/114
CPC F04B 53/14; F04B 53/92; F04B 33/00;
F04B 33/005; F04B 1/005; F04B 39/102;
F04D 13/06; F04D 29/60; F04D 29/22;
F04D 29/046; F04D 29/2266; F16K
11/048; F16K 15/20; F16K 31/602; F16L
37/18; F16L 37/20; F16L 25/00; B23P
11/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D381,340 S *	7/1997	Takenaka	.....	D15/9
D381,993 S *	8/1997	Takenaka	.....	D15/9
D405,455 S *	2/1999	Leu	.....	D15/9
D435,856 S *	1/2001	Kato	.....	D15/9
D466,524 S *	12/2002	Makino	.....	D15/9
D466,525 S *	12/2002	Makino	.....	D15/9
D470,155 S *	2/2003	Makino	.....	D15/9
D486,835 S *	2/2004	Hsiao	.....	D15/9
D537,452 S *	2/2007	Chu	.....	D15/9
D537,843 S *	3/2007	Chu	.....	D15/9
D538,301 S *	3/2007	Chu	.....	D15/9
D540,823 S *	4/2007	An	.....	D15/9
D541,820 S *	5/2007	Chu	.....	D15/9
D549,242 S *	8/2007	Chu	.....	D15/9
D583,392 S *	12/2008	Chu	.....	D15/9

D603,876 S *	11/2009	Chu	.....	D15/9
D603,877 S *	11/2009	Chu	.....	D15/9
D613,635 S *	4/2010	Chu	.....	D15/9
D613,636 S *	4/2010	Chu	.....	D15/9
D617,348 S *	6/2010	Chu	.....	D15/9
D623,666 S *	9/2010	Chu	.....	D15/9
D666,223 S *	8/2012	Chen	.....	D15/9

(Continued)

OTHER PUBLICATIONS

Denso, Denso 471-1407 New Compressor with Clutch, (first available Jan. 2, 2007), Amazon.com, URL:<<https://www.amazon.com/Denso-471-1407-New-Compressor-Clutch/dp/B001UCGHZ4>> (Year: 2007).*

(Continued)

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(57)

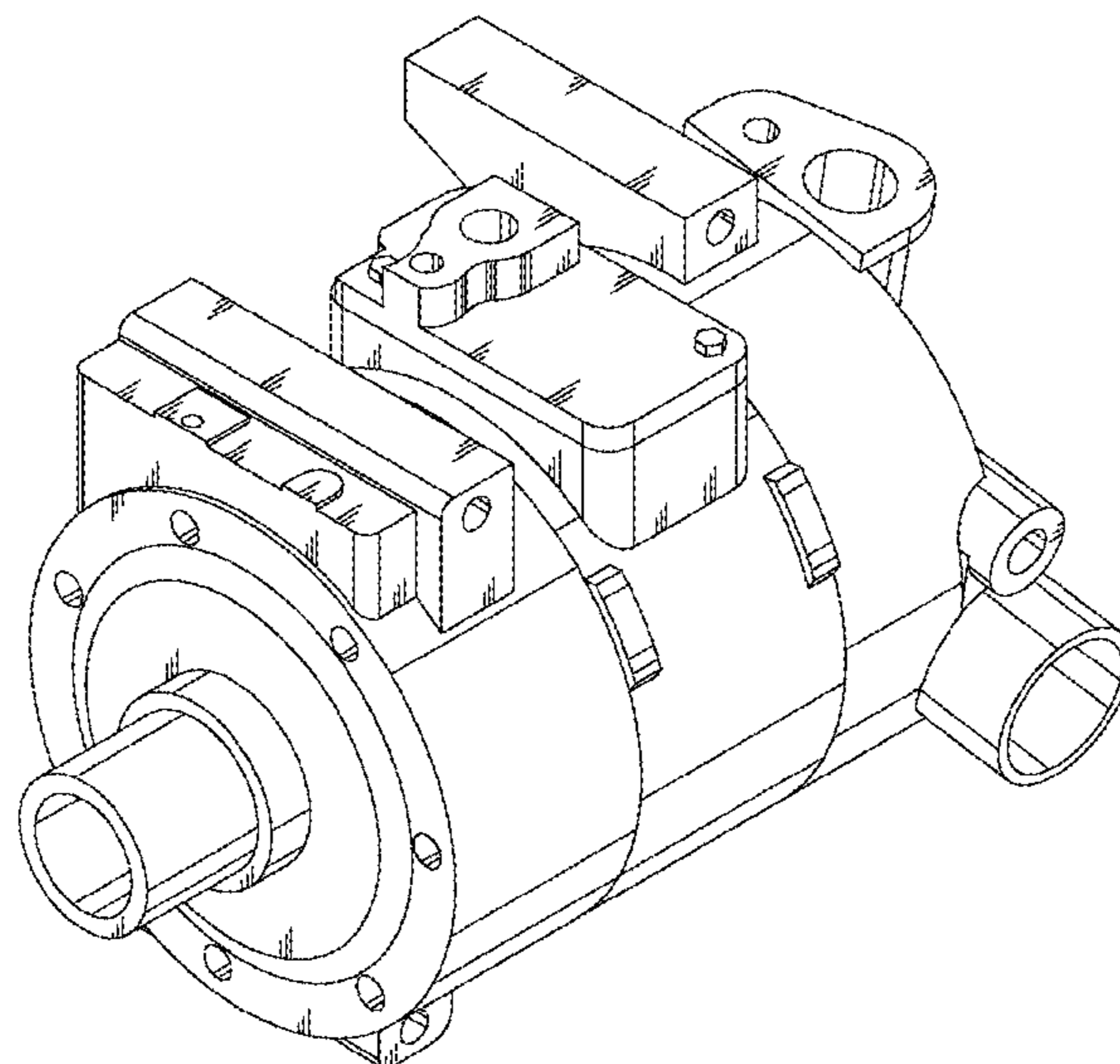
CLAIM

The ornamental design for an air compressor, as shown and described.

DESCRIPTION

FIG. 1 is a front and upper perspective view of an air compressor showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a top plan view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a left side elevational view thereof; FIG. 7 is a right side elevational view thereof; FIG. 8 is a front and bottom perspective view thereof; and, FIG. 9 is a rear and upper perspective view thereof. The short dash long dash broken lines define the bounds of the claimed design and form no part thereof.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D668,680 S * 10/2012 Chen D15/9
 D668,681 S * 10/2012 Chen D15/9
 D672,788 S * 12/2012 Chen D15/9
 D678,341 S * 3/2013 Chen D15/9
 D695,789 S * 12/2013 Nam D15/9
 D710,906 S * 8/2014 Park D15/9
 D710,907 S * 8/2014 Lim D15/9
 D710,908 S * 8/2014 Son D15/9
 D715,327 S * 10/2014 Lim D15/9
 D719,979 S * 12/2014 Son D15/9
 D732,085 S * 6/2015 Park D15/9
 D735,244 S * 7/2015 Jeong D15/9
 D759,334 S * 6/2016 Aoki D34/28
 D788,179 S * 5/2017 Theiss D15/7
 D803,270 S * 11/2017 Chen D15/9
 D819,702 S * 6/2018 Chu D15/9

D830,416 S * 10/2018 Shin D15/7
 D835,158 S * 12/2018 Shin D15/9
 D842,341 S * 3/2019 Shin D15/9

OTHER PUBLICATIONS

Denso, Denso 471-1222 New Compressor with Clutch, (first available Jan. 2, 2007), Amazon.com, URL:<<https://www.amazon.com/Denso-471-1222-New-Compressor-Clutch/dp/B001UCGHWM>> (Year: 2007).*

Denso, Reciprocating Types, (site visited Oct. 20, 2020), Denso Europe, URL:<<https://www.denso-am.eu/products/automotive-aftermarket/ac-thermal/ac-compressors/reciprocating-types/>> (Year: 2020).*

Eaton, What is a rotary compressor, (site visited Oct. 20, 2020), Eaton website, URL:<<https://eatoncompressor.com/what-is-a-rotary-screw-air-compressor/>> (Year: 2020).*

* cited by examiner

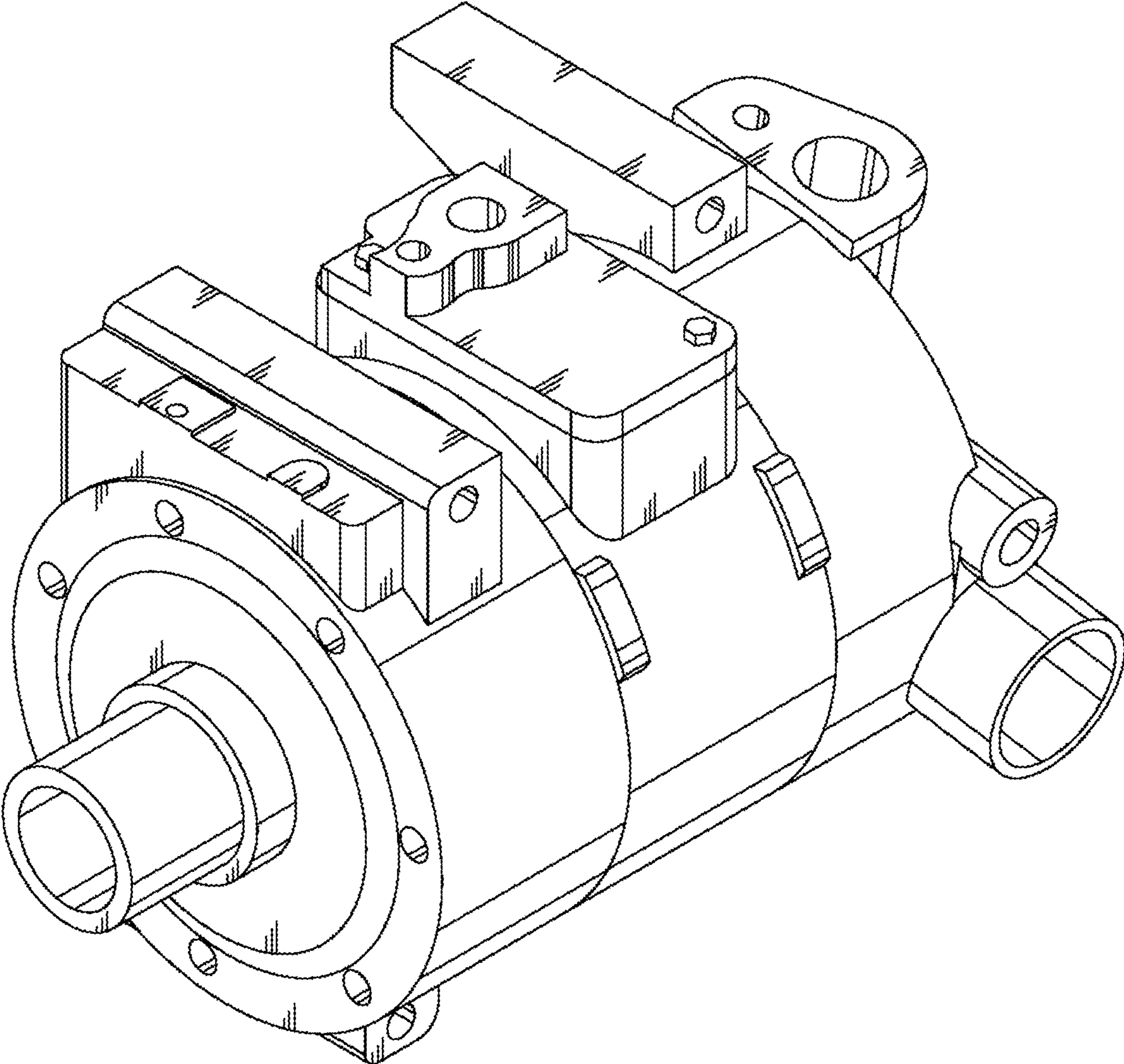


FIG. 1

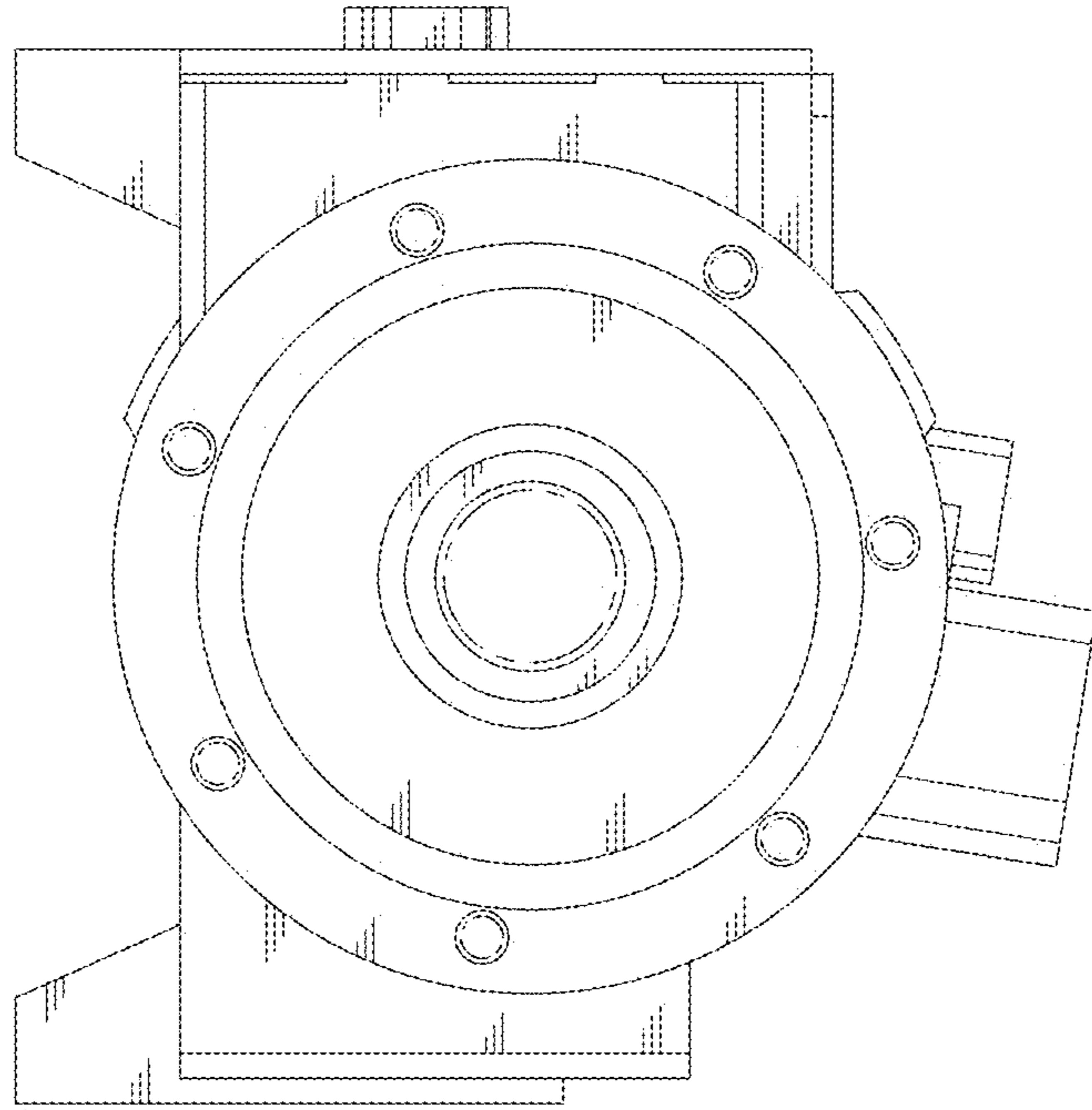


FIG. 2

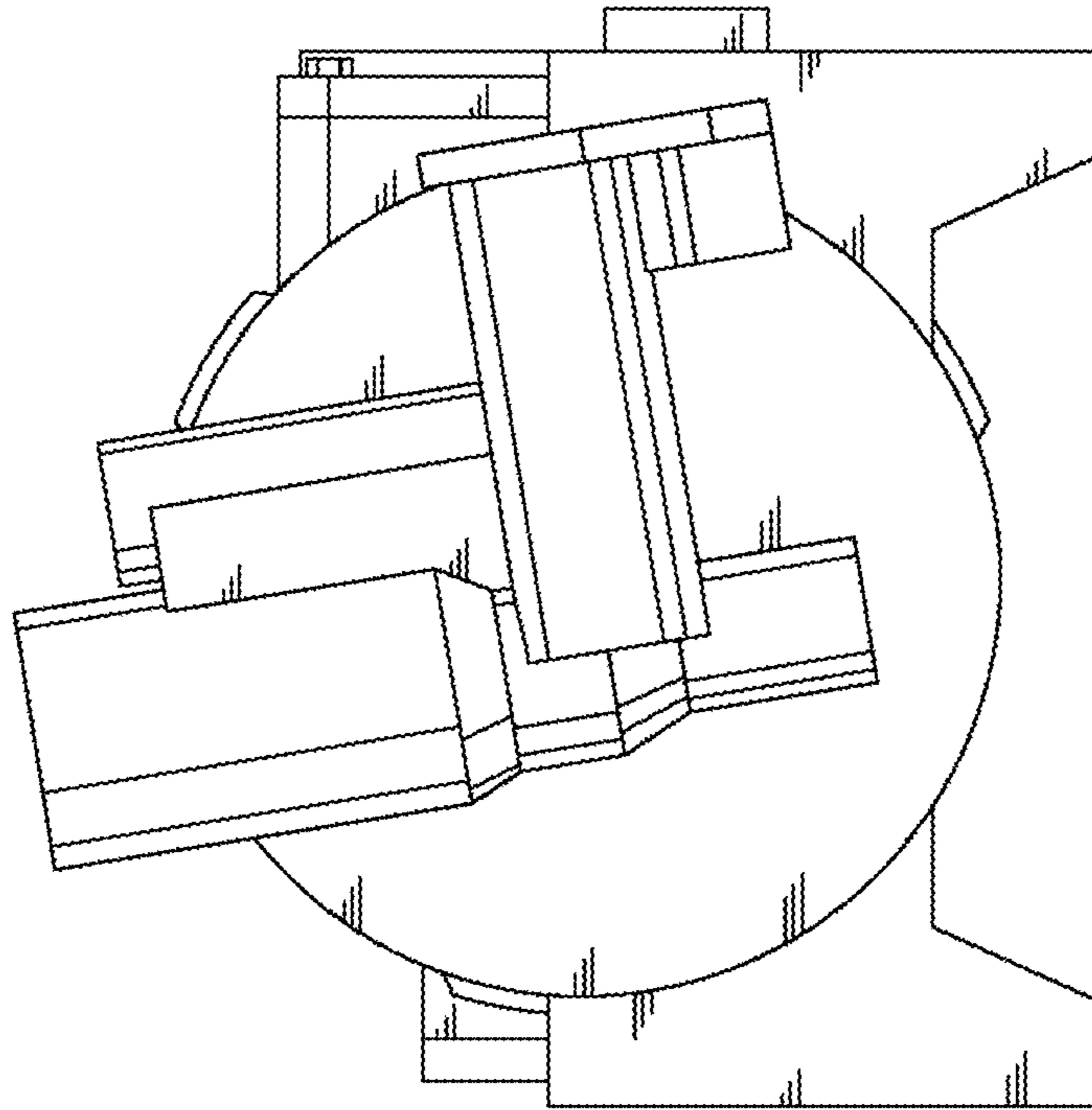


FIG. 3

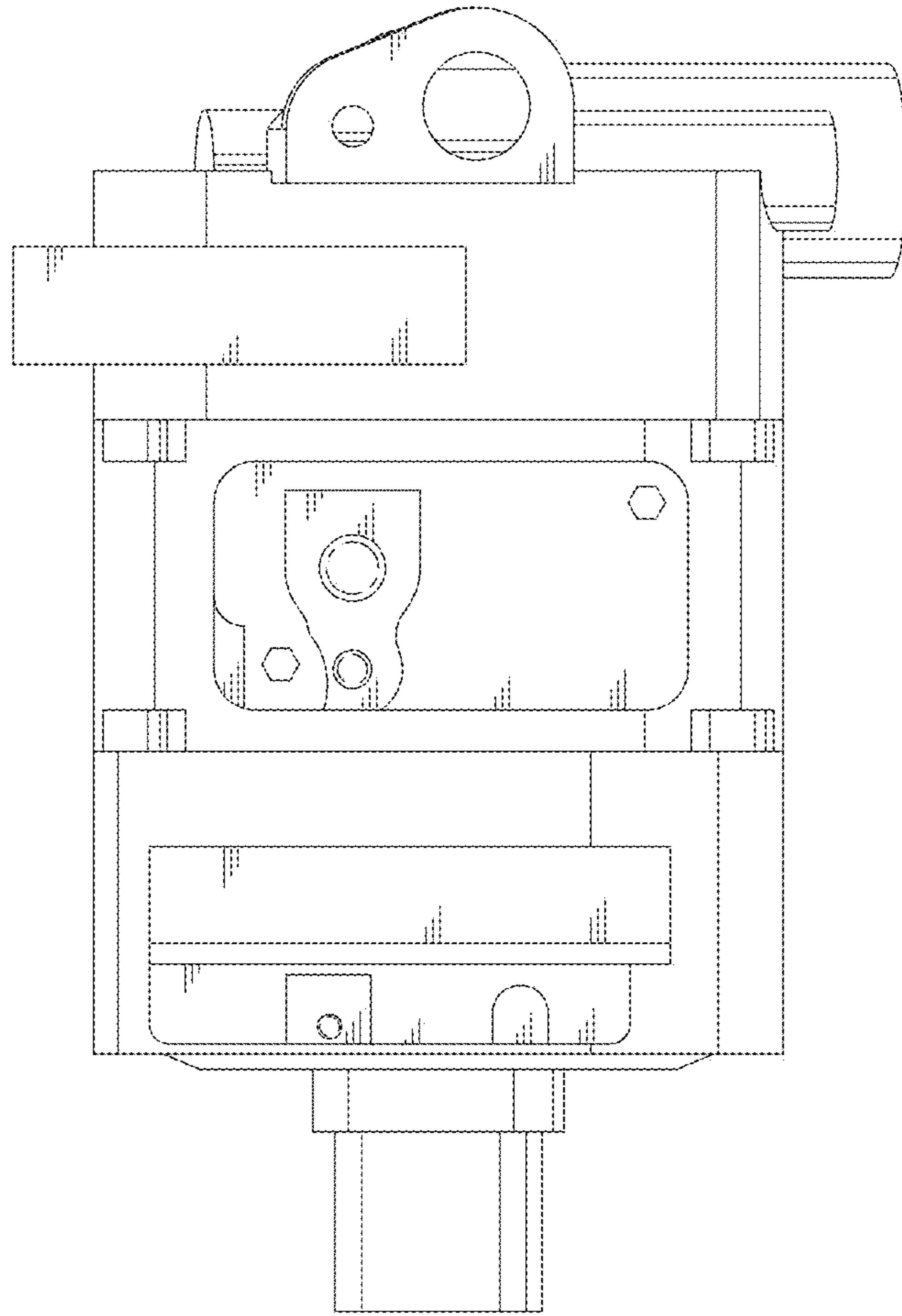


FIG. 4

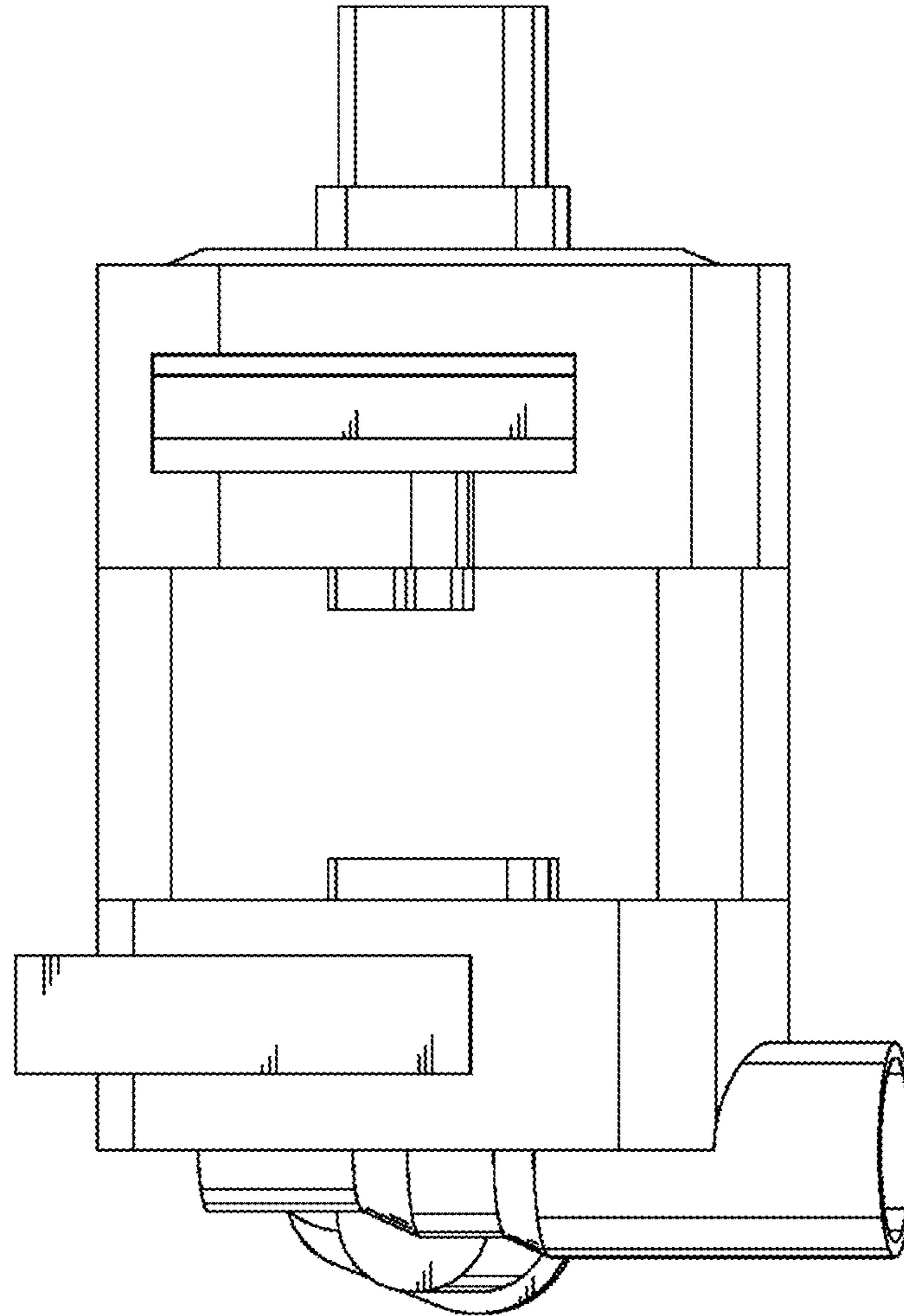


FIG. 5

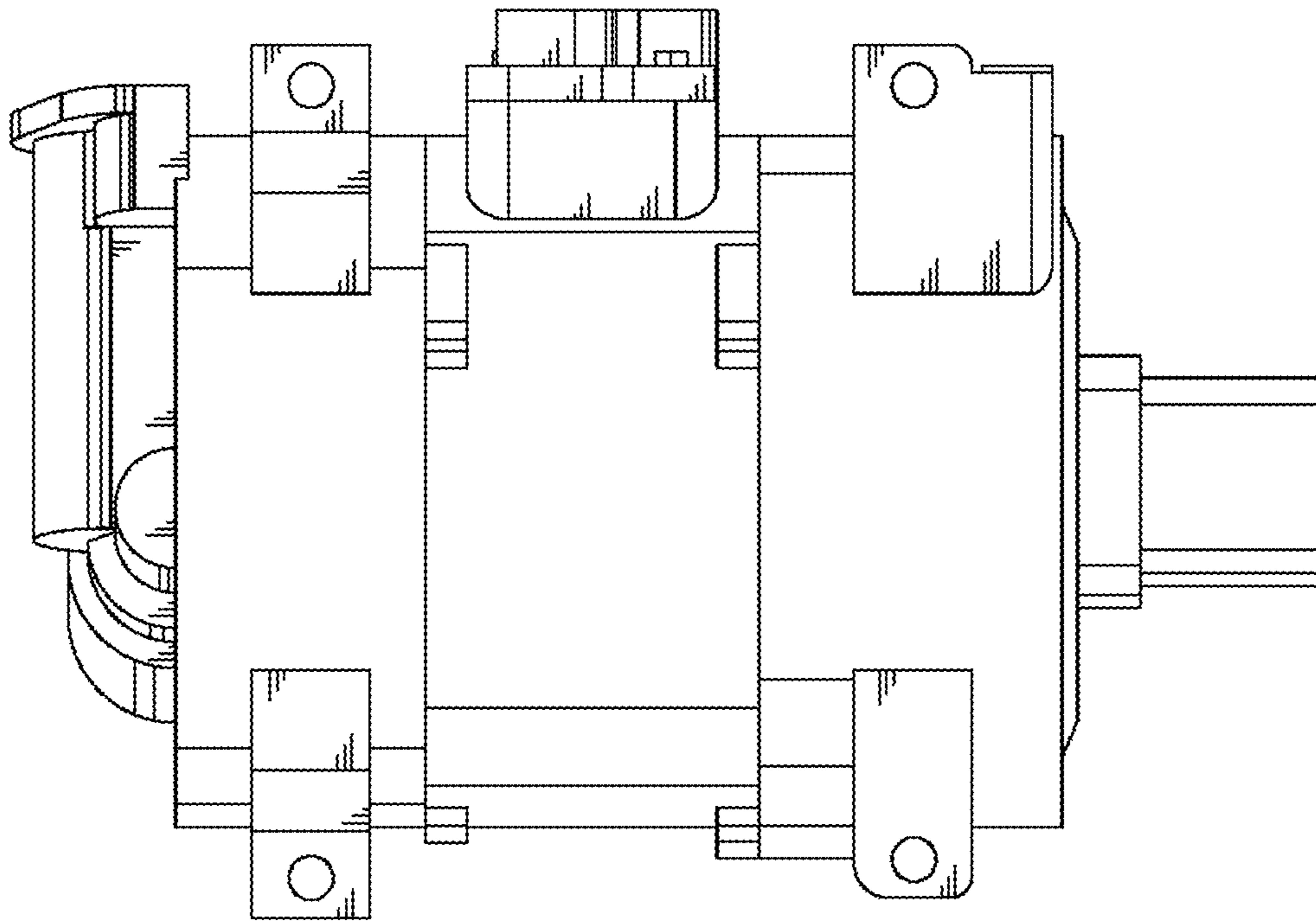


FIG. 6

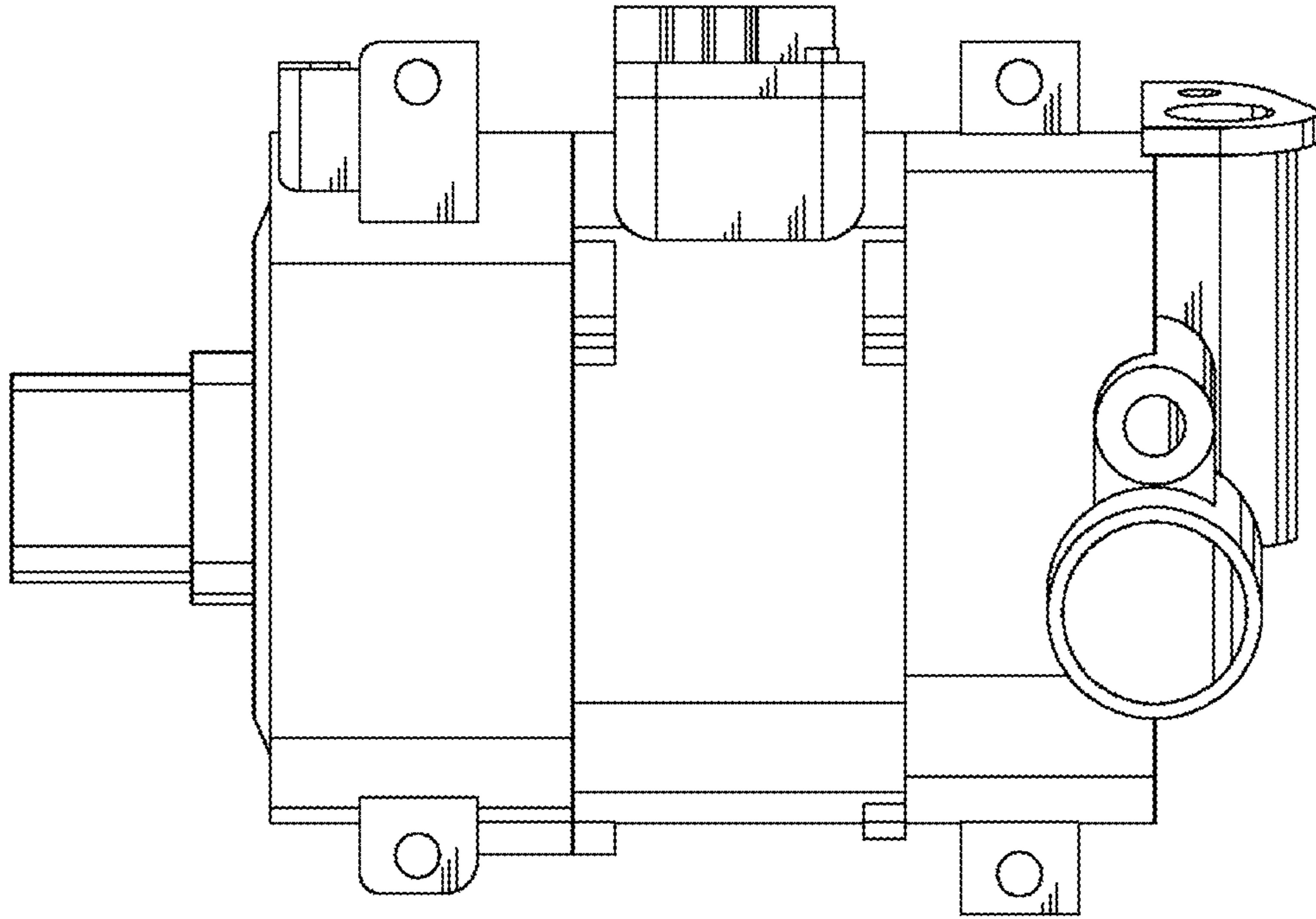


FIG. 7

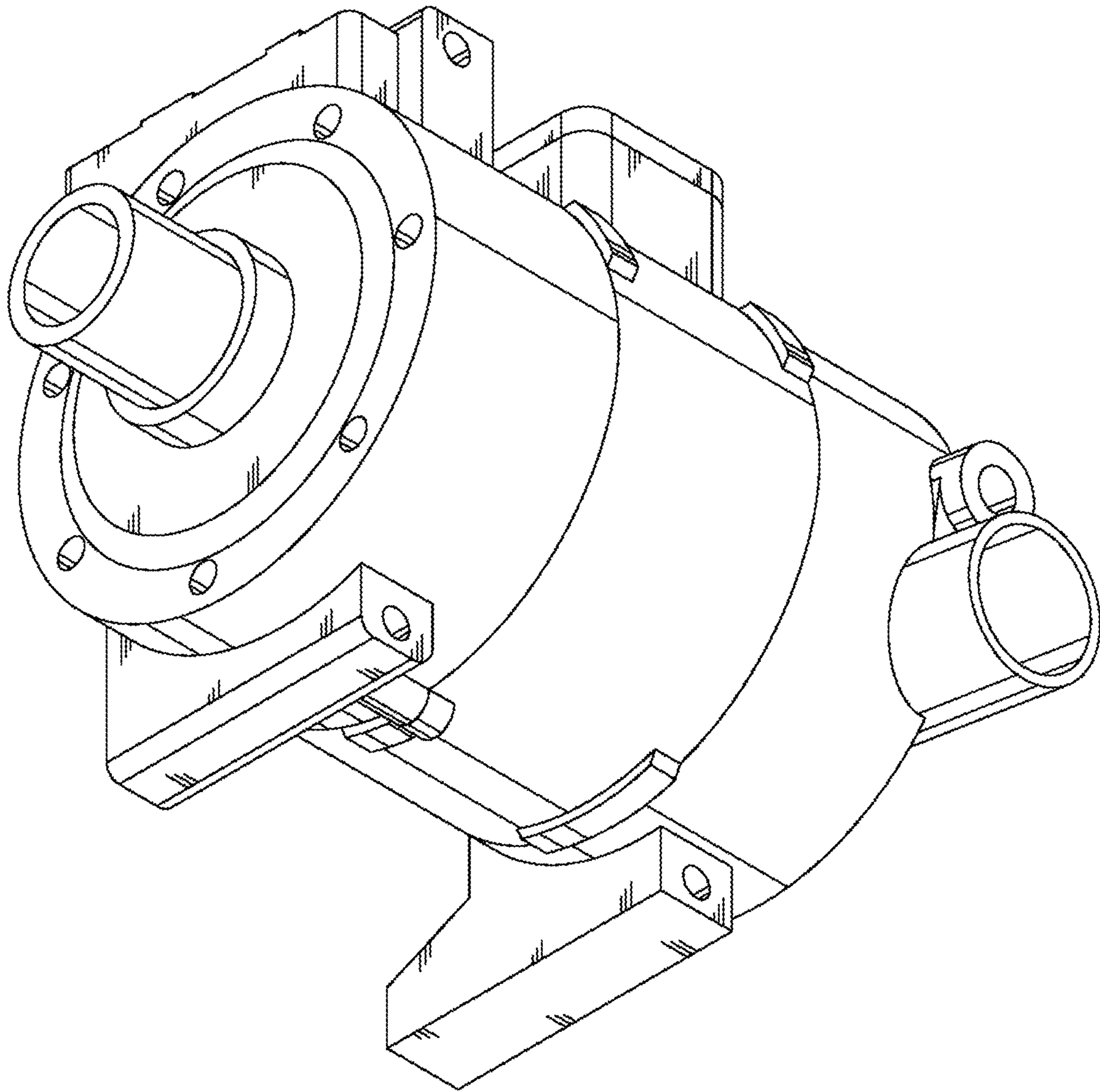


FIG. 8

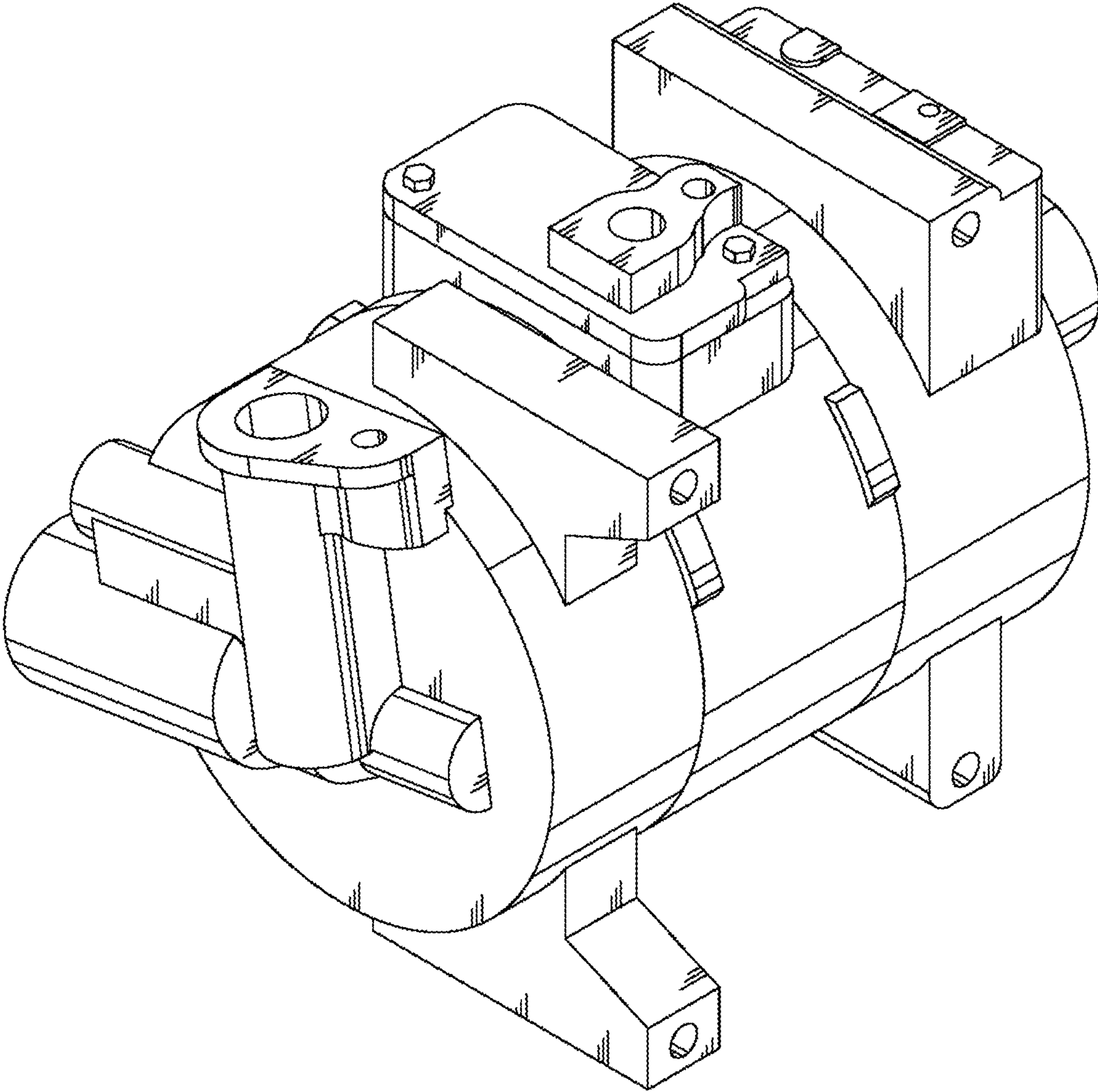


FIG. 9