



US0D1047343S

(12)

United States Design Patent

Xue et al.

(10)

Patent No.:

US D1,047,343 S

(45)

Date of Patent:

** Oct. 15, 2024

(54) REACH STACKER

(71) Applicants: JiangSu XCMG Construction Machinery Research Institute LTD., Jiangsu (CN); Xuzhou XCMG Port Machinery Co., Ltd., Jiangsu (CN)

(72) Inventors: Geng Xue, Jiangsu (CN); Liwei Xiao, Jiangsu (CN); He Liu, Jiangsu (CN); Haijun Zhang, Jiangsu (CN)

(73) Assignees: JiangSu XCMG Construction Machinery Research Institute LTD., Jiangsu (CN); Xuzhou XCMG Port Machinery Co., Ltd., Jiangsu (CN)

(**) Term: 15 Years

(21) Appl. No.: 29/889,971

(22) Filed: Apr. 18, 2023

(30) Foreign Application Priority Data

Nov. 16, 2022 (CN) 202230764806.3

(51) LOC (14) Cl. 12-05

(52) U.S. Cl. D34/34; D12/1

(58) Field of Classification Search

USPC D12/1; D15/10, 11, 12, 13, 22, 23, 30, D15/31, 32, 33; D34/28, 31, 34

CPC E02F 3/286; E02F 9/0808; E02F 9/0833; E02F 99/123; E02F 9/02; B66F 9/065; B66F 99/0655; B66F 9/07545; B66F 9/07559; B66F 9/12; B66F 9/122; B66F 5/00

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,858,675 A * 1/1975 Geis F16H 61/47 74/478

4,674,944 A * 6/1987 Addleman B66F 9/0655 414/706

D295,523 S * 5/1988 Gano D15/25

D316,468 S * 4/1991 Sandroock D34/37

D366,489 S * 1/1996 Brown D15/22

D376,243 S * 12/1996 Magni D34/34

6,047,791 A * 4/2000 Hoebelheinrich B66F 9/0655 187/222

(Continued)

OTHER PUBLICATIONS

Reach Stacker XCMG XCS4531E3 (EV), XCMG Thailand Webpage[online], [Site Visit May 3, 2024], URL: <https://www.xcmgthailand.com/en/products/port-machinery/xcs4531e-ev/> (Year: 2024).*

(Continued)

Primary Examiner — Darlington Ly

Assistant Examiner — Giang Hoang Tran

(74) Attorney, Agent, or Firm — JCIPRNET

(57) CLAIM

The ornamental design for a reach stacker as shown.

DESCRIPTION

FIG. 1 is a top, front and right side perspective view of a reach stacker showing our new design;

FIG. 2 is a front and left side perspective view thereof;

FIG. 3 is a rear and left side perspective view thereof;

FIG. 4 is a top, rear and right side perspective view thereof;

FIG. 5 is a right side elevation view thereof;

FIG. 6 is a left side elevation view thereof;

FIG. 7 is a front elevation view thereof;

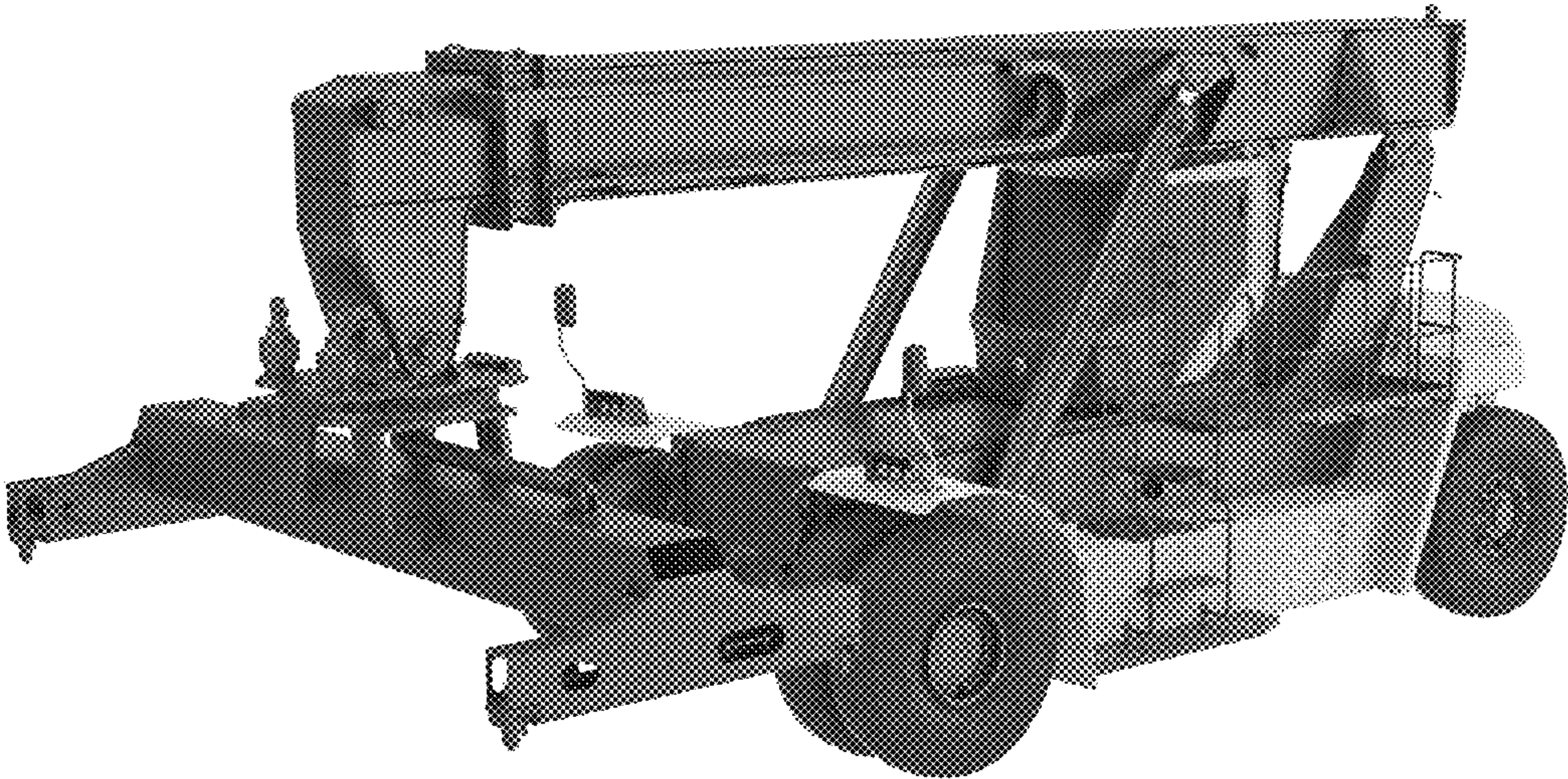
FIG. 8 is an enlarged front elevation view thereof;

FIG. 9 is a rear elevation view thereof;

FIG. 10 is an enlarged rear elevation view thereof; and,

FIG. 11 is a top plan view thereof.

1 Claim, 11 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D461,831 S * 8/2002 Laberheim D15/25
D480,529 S * 10/2003 Pini D34/34
6,726,436 B2 * 4/2004 Baumann E02F 3/286
180/311
D516,586 S * 3/2006 Tsuji D15/10
D641,028 S * 7/2011 Mack D15/23
D668,271 S * 10/2012 Hutchinson D34/37
D758,039 S * 5/2016 Nessler D34/34
9,840,403 B2 * 12/2017 Iotti B66F 9/24
10,035,462 B2 * 7/2018 Iotti B60R 3/02
10,759,635 B2 * 9/2020 Seutter B66C 13/085
D903,223 S * 11/2020 Watson D34/37
D982,276 S * 3/2023 Bonaretti D34/34
D1,001,412 S * 10/2023 Lehmann D34/34
2004/0040137 A1 * 3/2004 Sewell E02F 3/286
29/428
2005/0232741 A1 * 10/2005 Laenge B66F 9/0655
414/718
2007/0201972 A1 * 8/2007 Tsuji B60K 17/16
414/718
2017/0341566 A1 * 11/2017 Luminet B66F 17/006
2019/0300349 A1 * 10/2019 Iotti B66F 9/07559
2020/0031643 A1 * 1/2020 Iotti B60L 50/15

OTHER PUBLICATIONS

Reach Stacker XCMG XCS4531E3, Aug. 8, 2023, YouTube
Webpage[online], [Site Visit Aug. 9, 2024], URL: <https://www.youtube.com/watch?v=YjST4iUisf8> (Year: 2023).*

Performance Introduction to XCMG Reach Stacker XCS4531K,
May 6, 2023, YouTube Webpage[online], [Site Visit Aug. 9, 2024],
URL: <https://www.youtube.com/watch?v=bD3a5pHW5c4> (Year:
2023).*

* cited by examiner

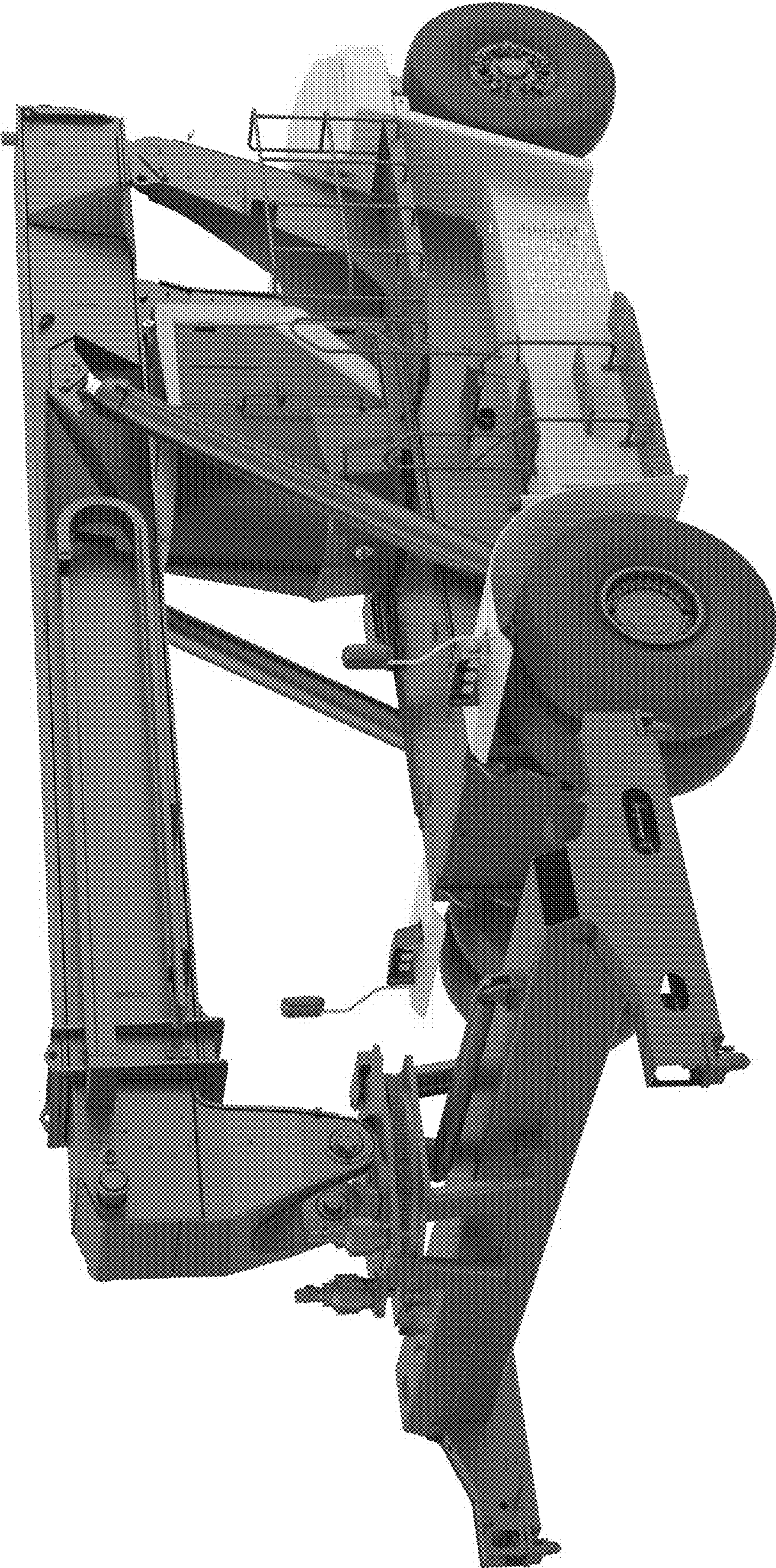


FIG. 1

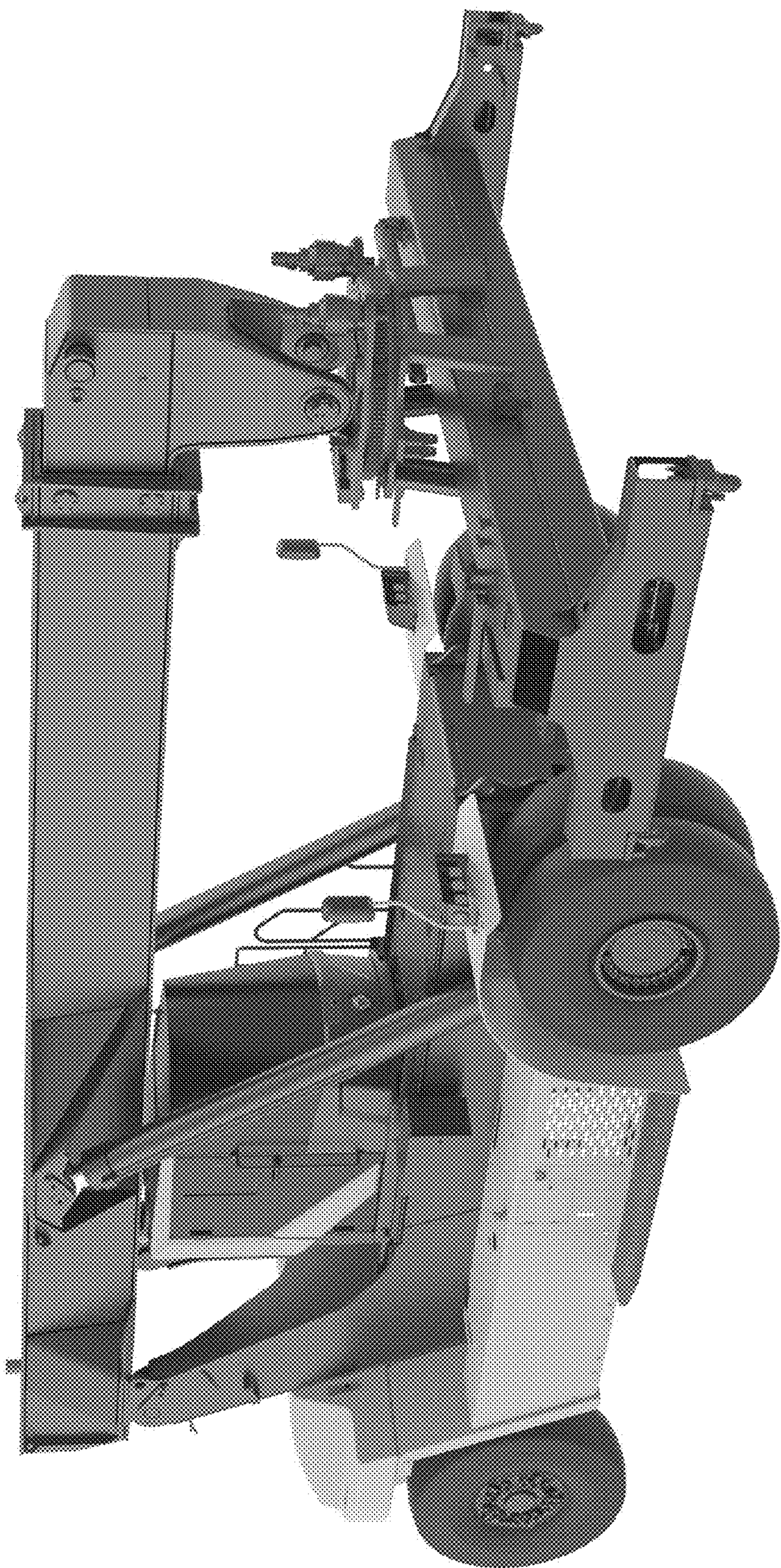


FIG. 2

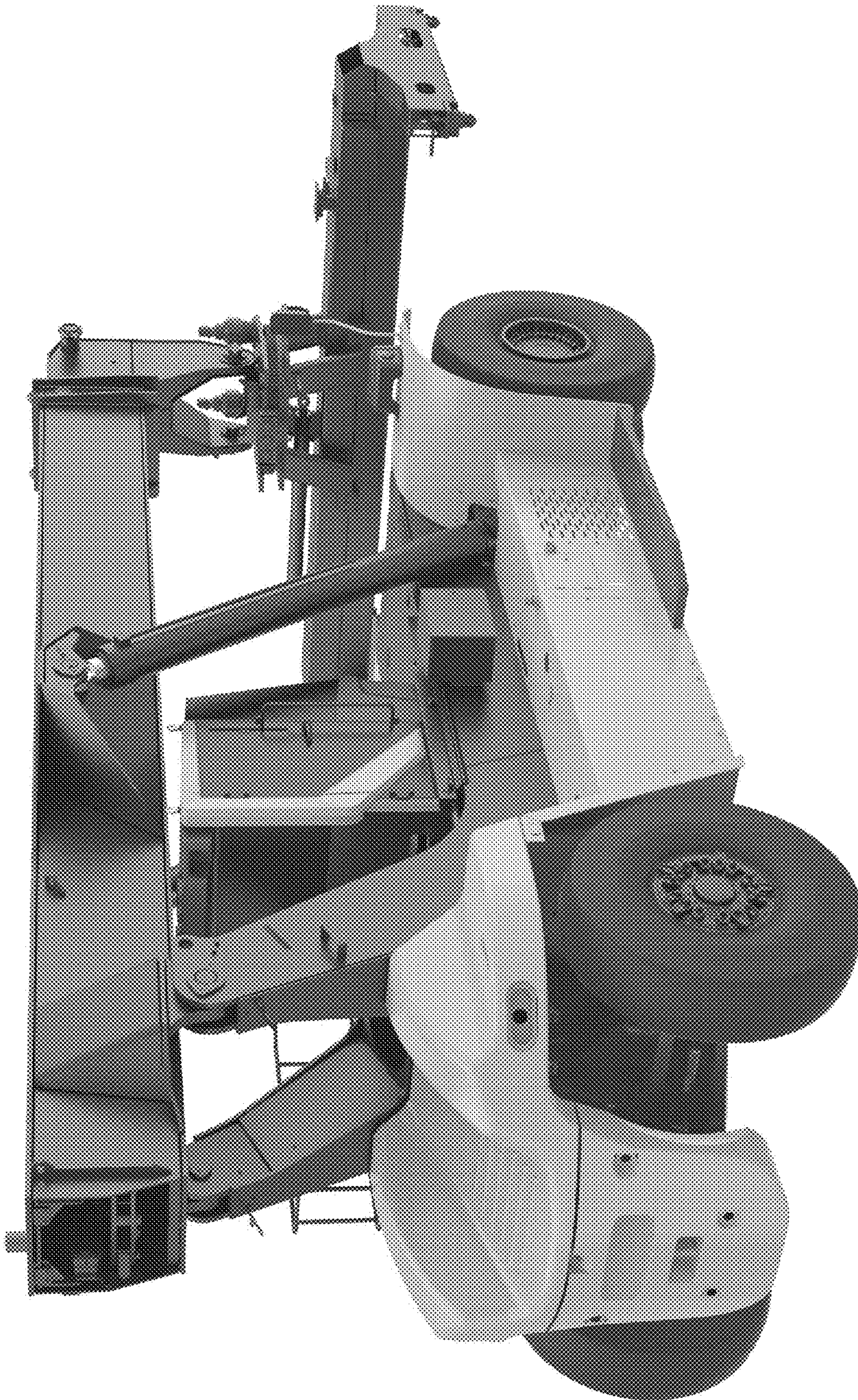


FIG. 3

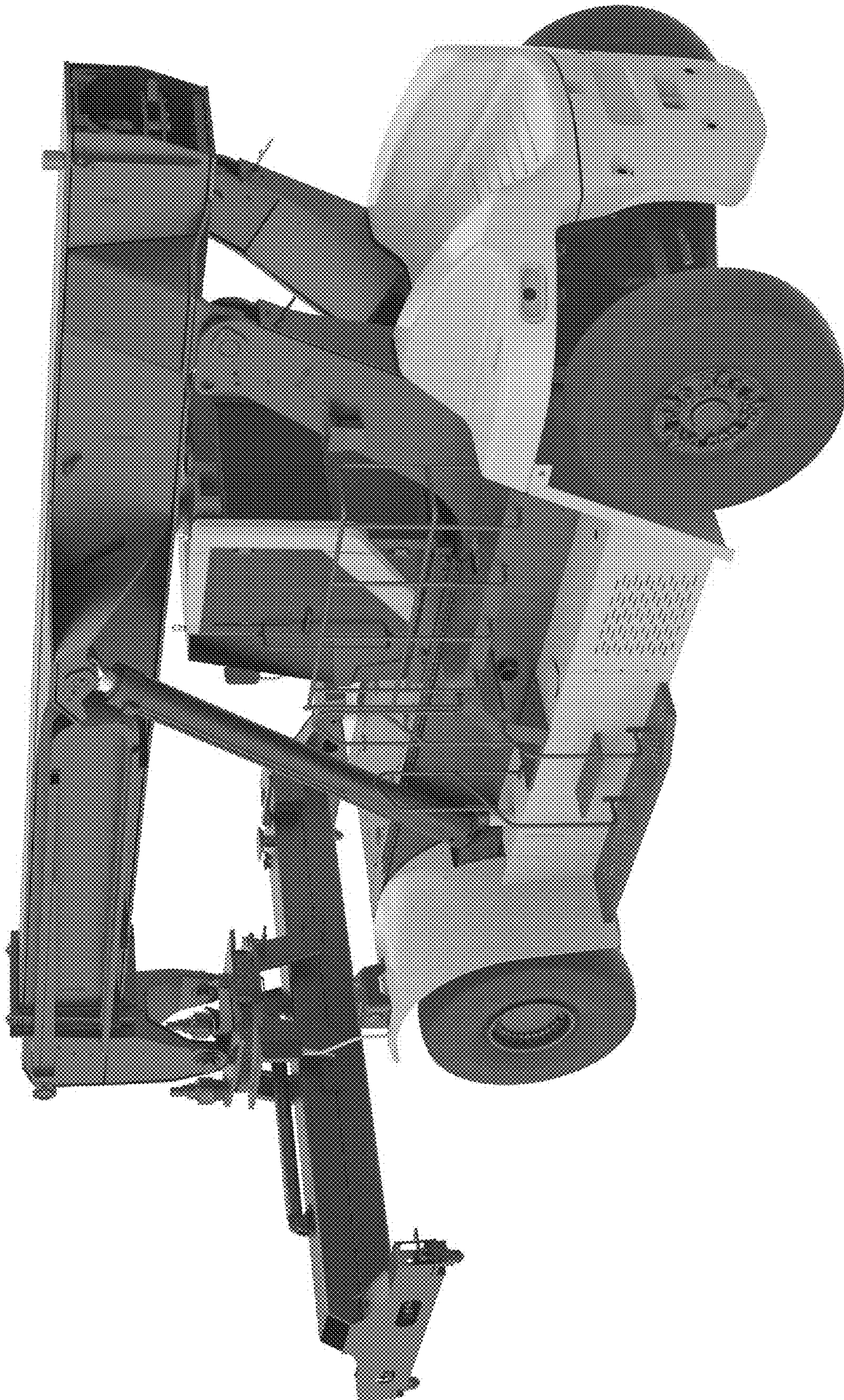


FIG. 4

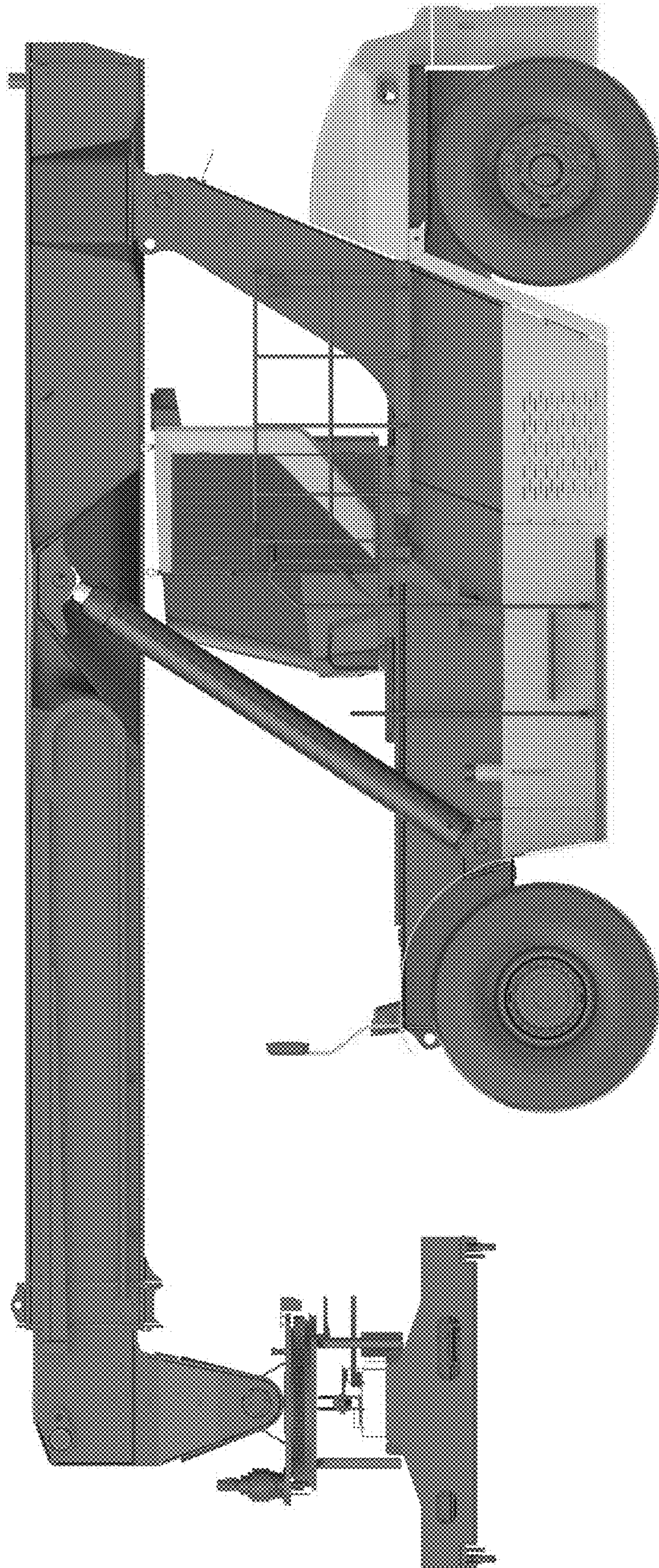


FIG. 5

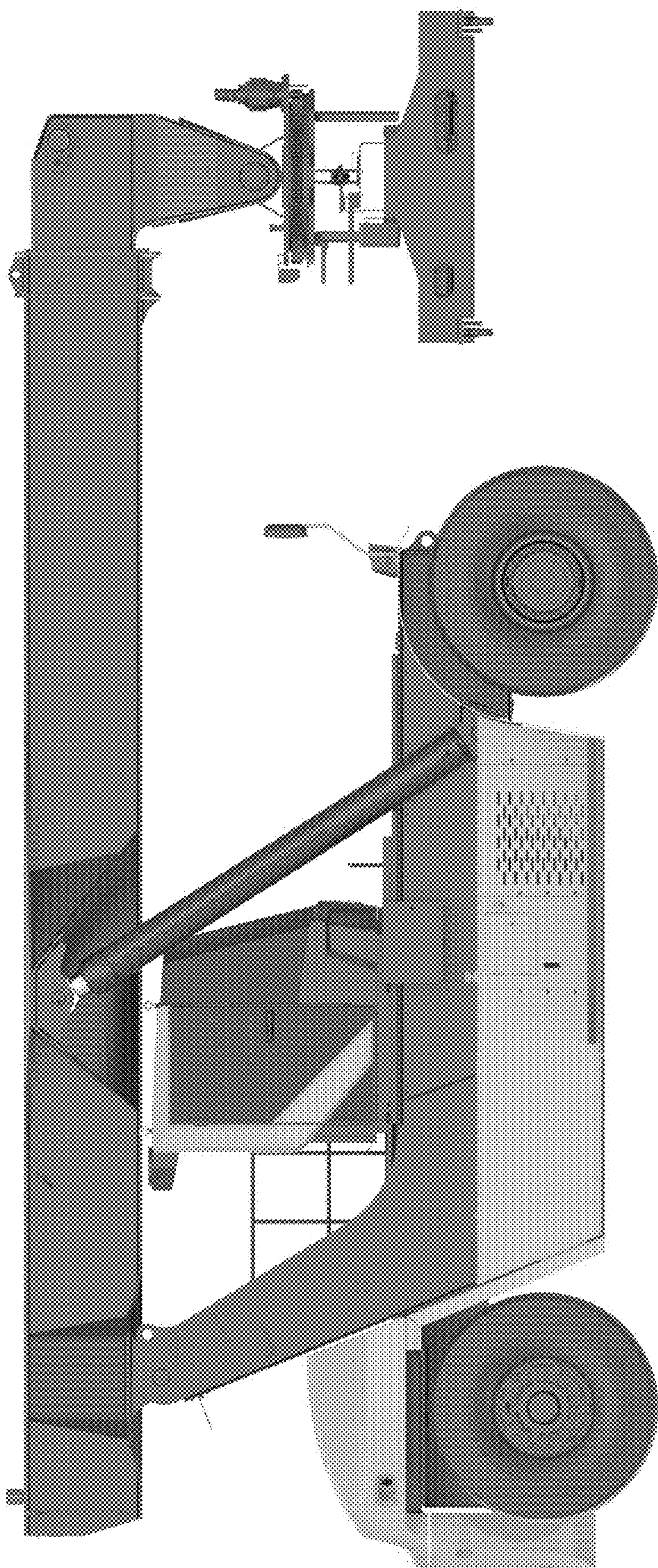


FIG. 6

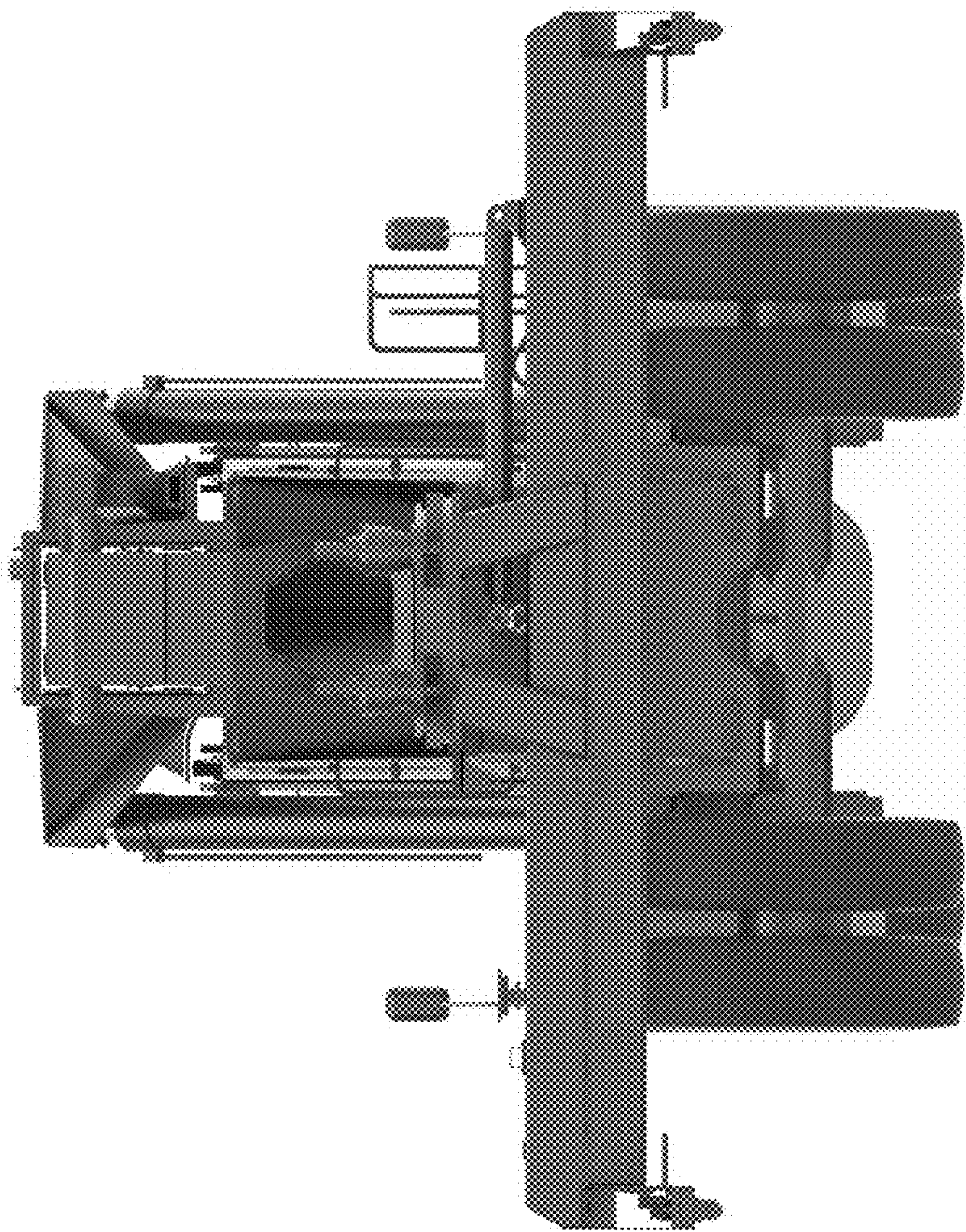


FIG. 7

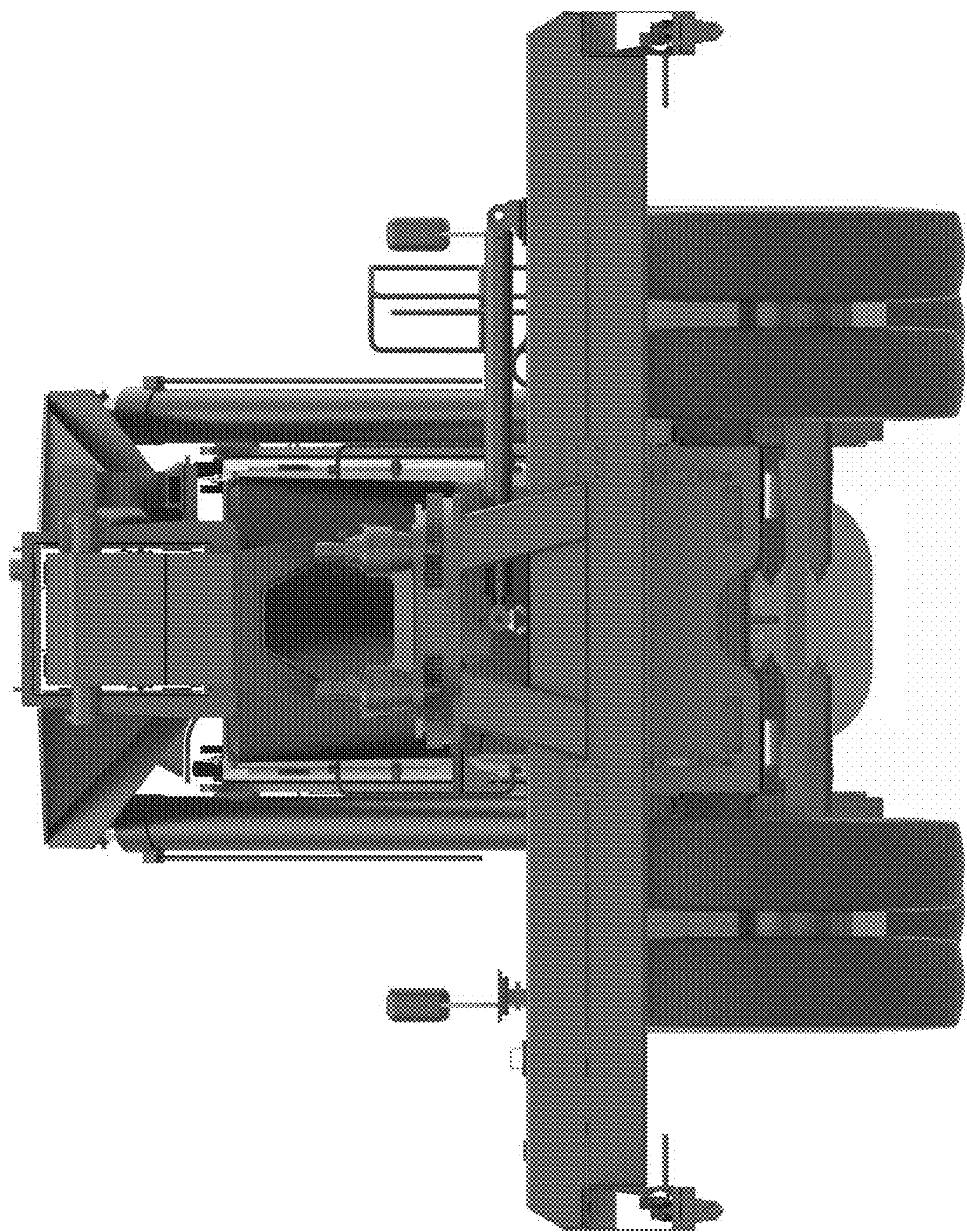


FIG. 8

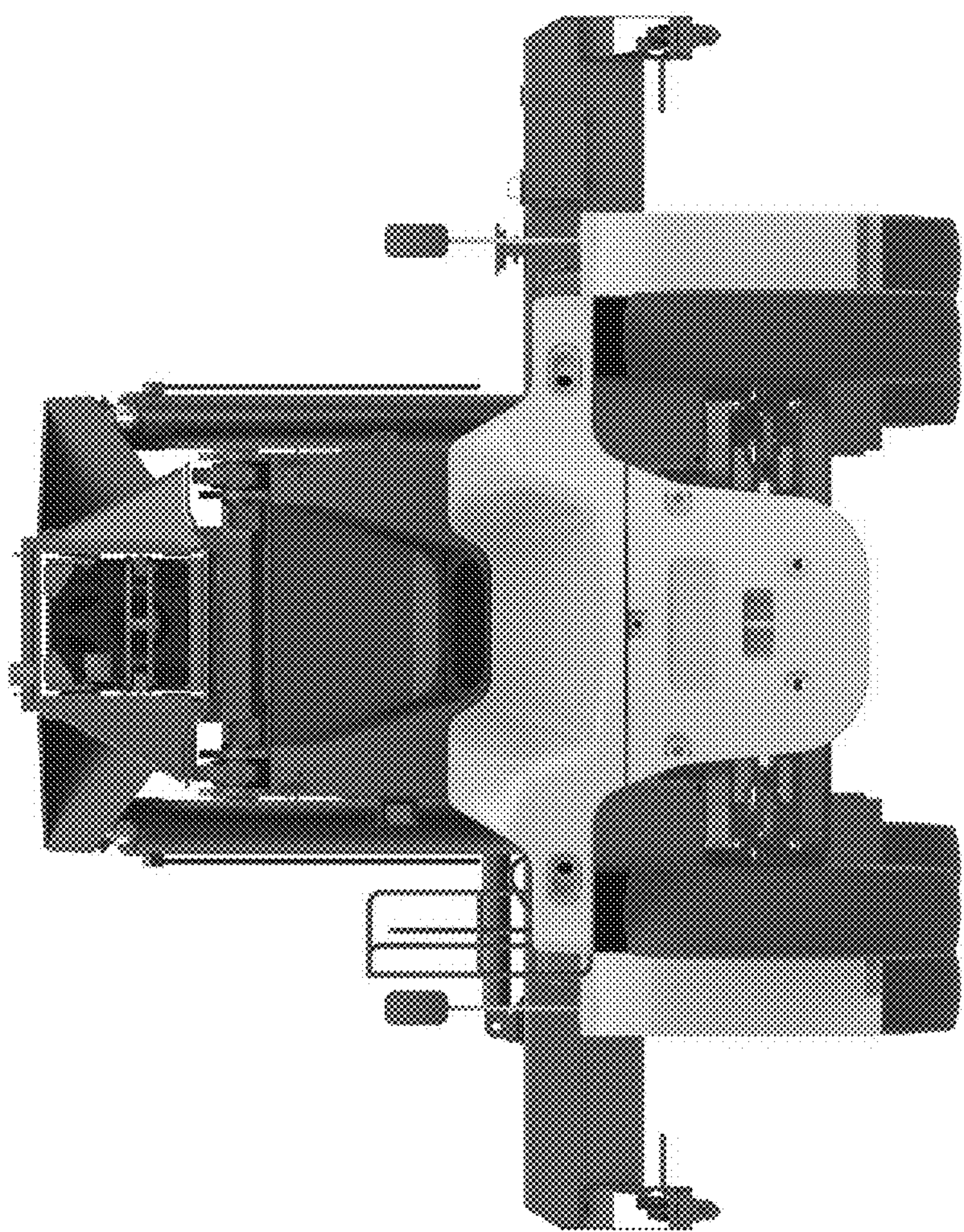


FIG. 9

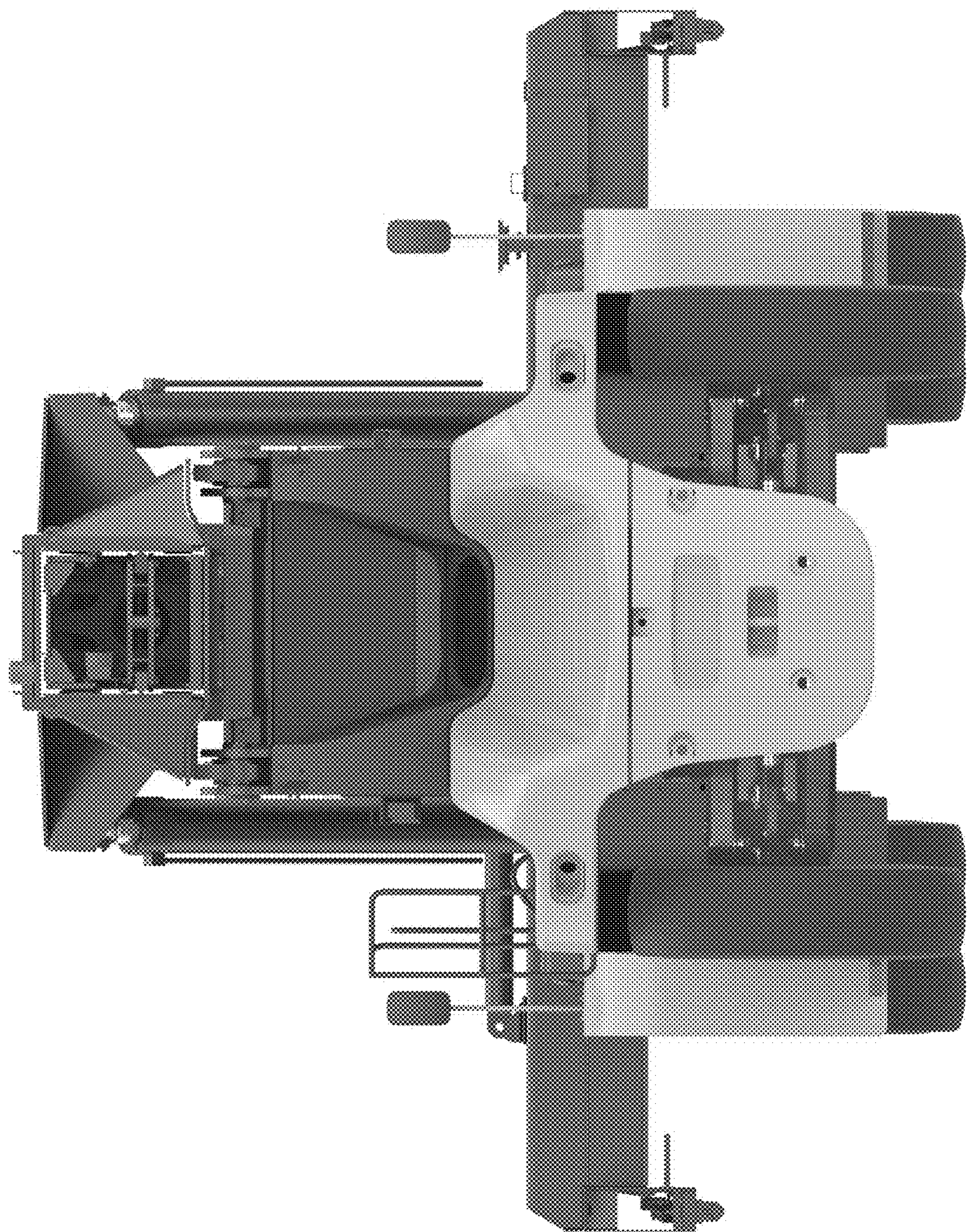


FIG. 10

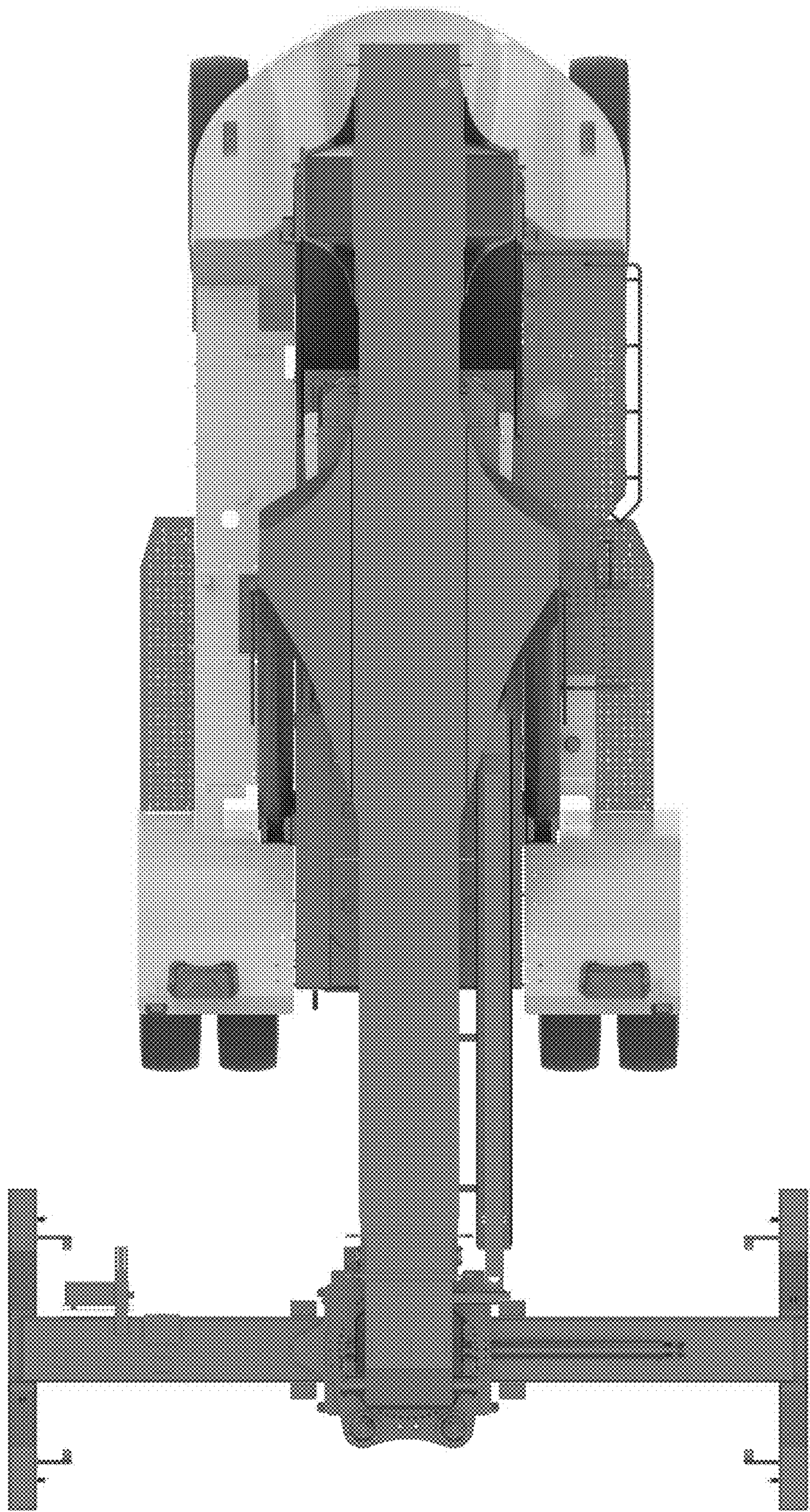


FIG. 11