



US0D1049171S

(12)

United States Design Patent

Brown et al.

(10) Patent No.:

US D1,049,171 S

(45) Date of Patent:

** Oct. 29, 2024

(54) DUAL-CYLINDER AIR COMPRESSOR

(71) Applicants: Elias Brown, Wheat Ridge, CO (US);
Derek Thorson, Wheat Ridge, CO (US)

(72) Inventors: Elias Brown, Wheat Ridge, CO (US);
Derek Thorson, Wheat Ridge, CO (US)

(**) Term: 15 Years

(21) Appl. No.: 29/952,259

(22) Filed: Jul. 15, 2024

(51) LOC (14) Cl. 05-02

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

(58) Field of Classification Search

USPC D15/7-9; D23/366, 356; D12/400;
D13/107, 110, 124; D24/213

CPC F04B 1/005; F04B 33/00; F04B 33/005;
F04B 39/102; F04B 53/14; F04B 53/92;
F04D 13/06; F04D 29/22; F04D 29/046;
F04D 29/2266; F16L 37/18; F16L 37/20;
F16K 11/048; F16K 15/20; F16K 31/602

See application file for complete search history.

D588,163 S 3/2009 Moser

D588,165 S 3/2009 Steinfels

D589,985 S 4/2009 Steinfels

D611,962 S 3/2010 Schneider

D613,633 S 4/2010 Leu

D620,500 S 7/2010 Brandt

(Continued)

OTHER PUBLICATIONS

Thor's Lighting Air Systems, Thor's Lighting Bolt 12V Digital Air Compressor, (first available Dec. 8, 2022) Amazon.com, URL:<<https://www.amazon.com/Thors-Lightning-Bolt-Air-Compressor/dp/B0BPZMBR96>> (Year: 2022).*

(Continued)

Primary Examiner — Calvin E Vansant
Assistant Examiner — Mark T. Philipps
(74) Attorney, Agent, or Firm — QuickPatents; Kevin Prince

(57)

CLAIM

The ornamental design for a dual-cylinder air compressor, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a dual-cylinder air compressor, showing our new design;
FIG. 2 is a bottom perspective view thereof;
FIG. 3 is a front elevational view thereof;
FIG. 4 is a rear elevational view thereof;
FIG. 5 is a top plan view thereof;
FIG. 6 is a bottom plan view thereof; and,
FIG. 7 is a left-side elevational view thereof, the right-side elevational view being a mirror image thereof.
The broken lines in the figures depict portions of the dual-cylinder air compressor that form no part of the claimed design.

1 Claim, 6 Drawing Sheets

(56) References Cited

U.S. PATENT DOCUMENTS

D377,967 S 2/1997 Rozek

D379,996 S 6/1997 Leu

D382,883 S 8/1997 Breitzman

D412,174 S 7/1999 Faulkner

D447,490 S 9/2001 Matthew

6,331,101 B2 12/2001 Leu

D482,371 S 11/2003 Buck

D492,326 S 6/2004 Hsiao

D499,119 S 11/2004 Thomas, Jr.

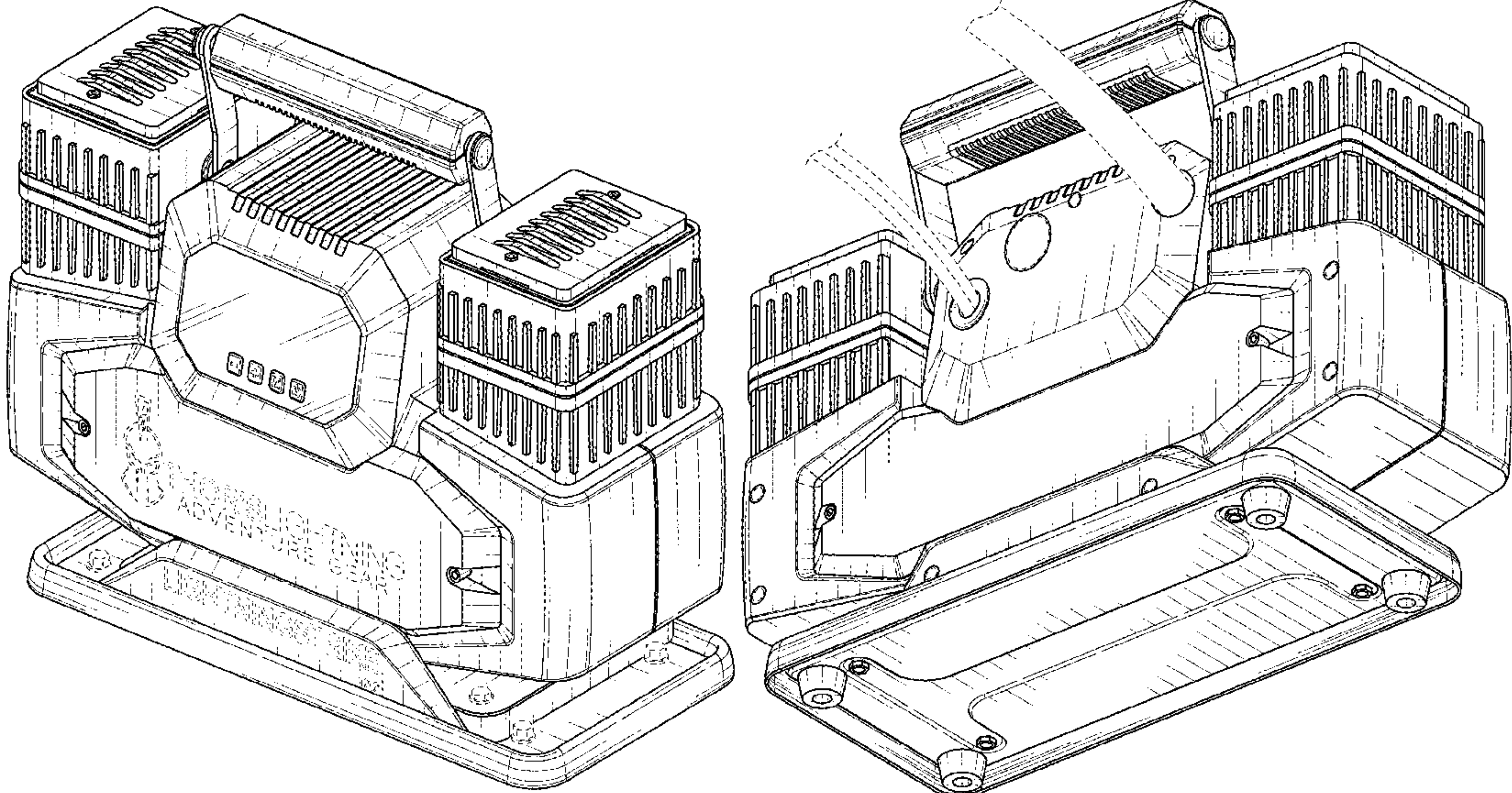
D532,796 S 11/2006 Leu

D537,842 S 3/2007 Moser

D549,734 S 8/2007 Chern

D565,601 S 4/2008 Mandsfelt

7,494,327 B2 2/2009 Etter



(56)

References Cited

U.S. PATENT DOCUMENTS

D624,492 S 9/2010 Daniels
D624,493 S 9/2010 Daniels
D624,876 S 10/2010 Daniels
D624,877 S 10/2010 Daniels
D668,268 S 10/2012 Haener
D668,683 S 10/2012 Balma
D678,339 S * 3/2013 Hughes D15/7
D681,679 S 5/2013 Osaka
D684,999 S * 6/2013 Osaka D15/7
D700,625 S 3/2014 Iwagoshi
8,727,741 B2 5/2014 Nutz
D707,719 S * 6/2014 Kamijyo D15/7
D749,643 S 2/2016 Craig
D774,102 S * 12/2016 Ellman D15/9
D776,168 S 1/2017 Balma
D792,473 S 7/2017 Imsand
D800,178 S 10/2017 Balma
D803,270 S * 11/2017 Chen D15/9
D806,133 S 12/2017 Costle
D811,324 S 2/2018 Inskeep
D814,525 S 4/2018 Yang
D833,386 S 11/2018 Tschopp
D844,672 S 4/2019 Walmsley

D864,254 S 10/2019 Zhang
D875,788 S 2/2020 Tuang
D891,479 S 7/2020 Boccato
D896,281 S 9/2020 Long
D922,441 S 6/2021 Suzuki
D935,392 S 11/2021 Shum
D962,997 S * 9/2022 Xu D15/7
D969,876 S 11/2022 Westling
D970,560 S 11/2022 Xu
D971,269 S 11/2022 Balma
D985,022 S 5/2023 Zou
D988,369 S 6/2023 Zeng
D1,009,084 S 12/2023 Pilz
2023/0054192 A1 2/2023 Tack

OTHER PUBLICATIONS

Smaout, 12V Digital Air Compressor, (first available Sep. 5, 2023) Amazon.com, URL:<<https://www.amazon.com/dp/B0CHB4FCGQ>> (Year: 2023).*
All-Top, Air Compressor Kit, (first available Mar. 9, 2023) Amazon.com, URL:<<https://www.amazon.com/ALL-TOP-Compressor-Cylinder-Portable-Inflator/dp/B0BXX761KQ>> (Year: 2023).*

* cited by examiner

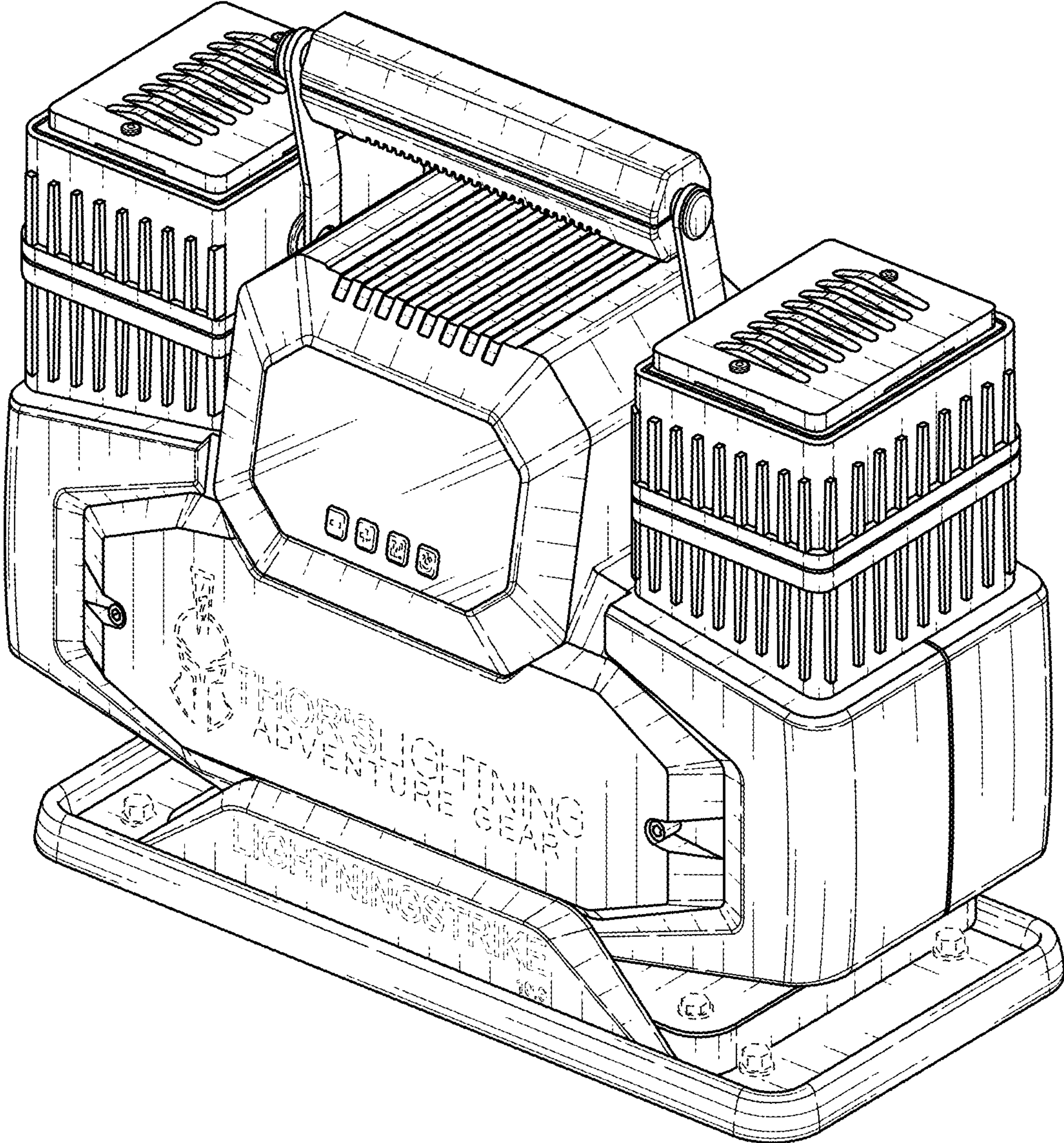


FIG. 1

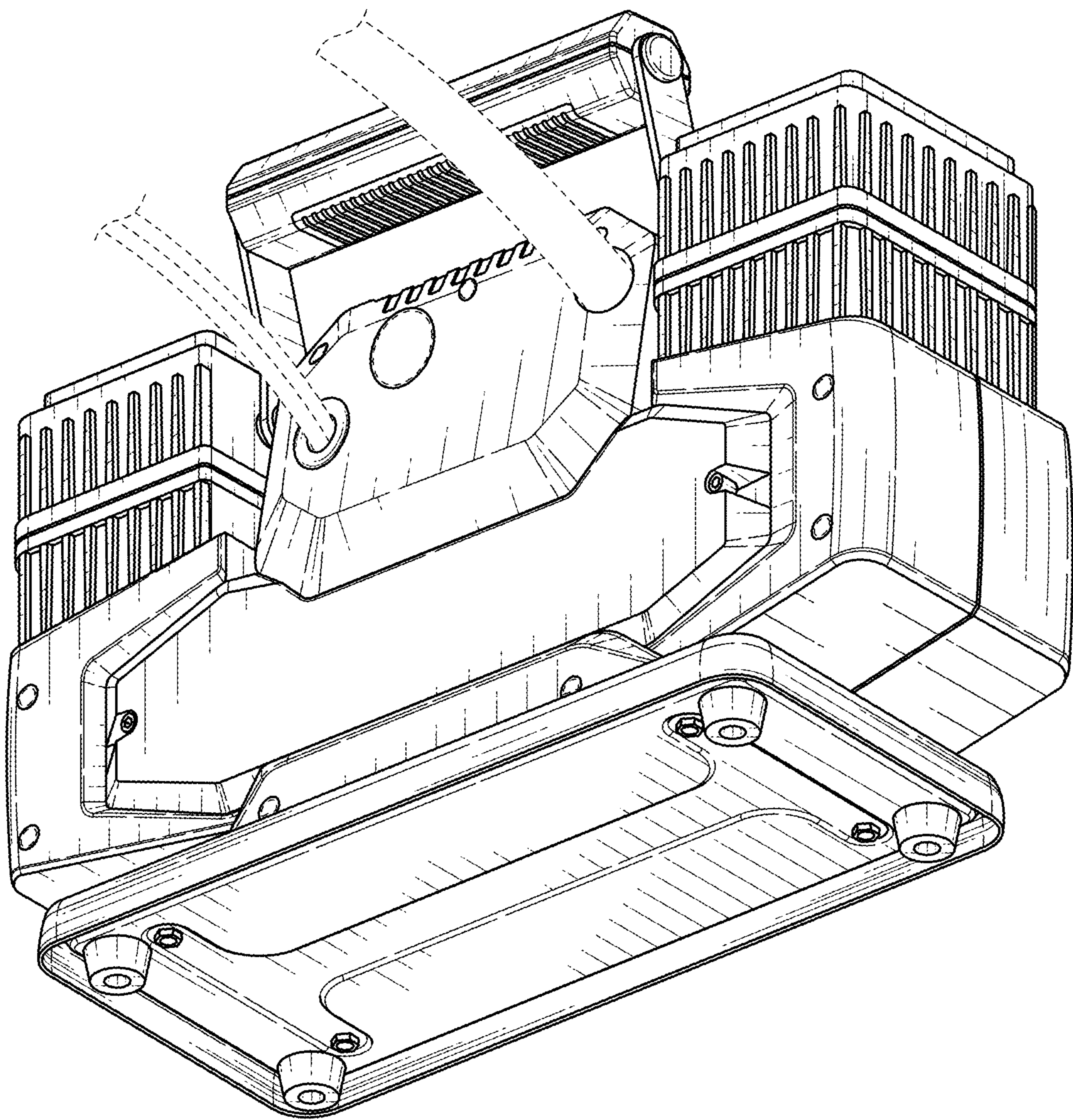


FIG. 2

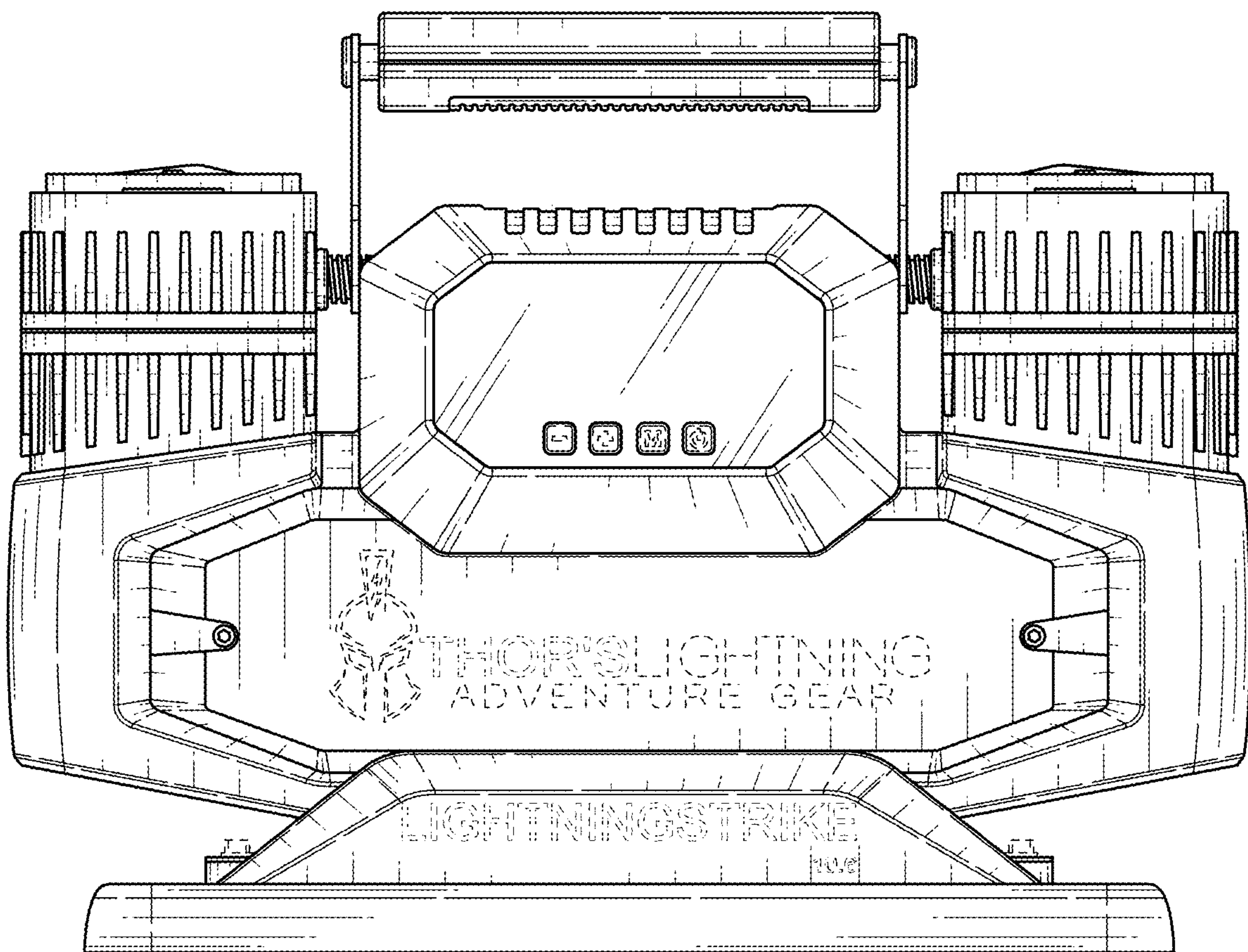


FIG. 3

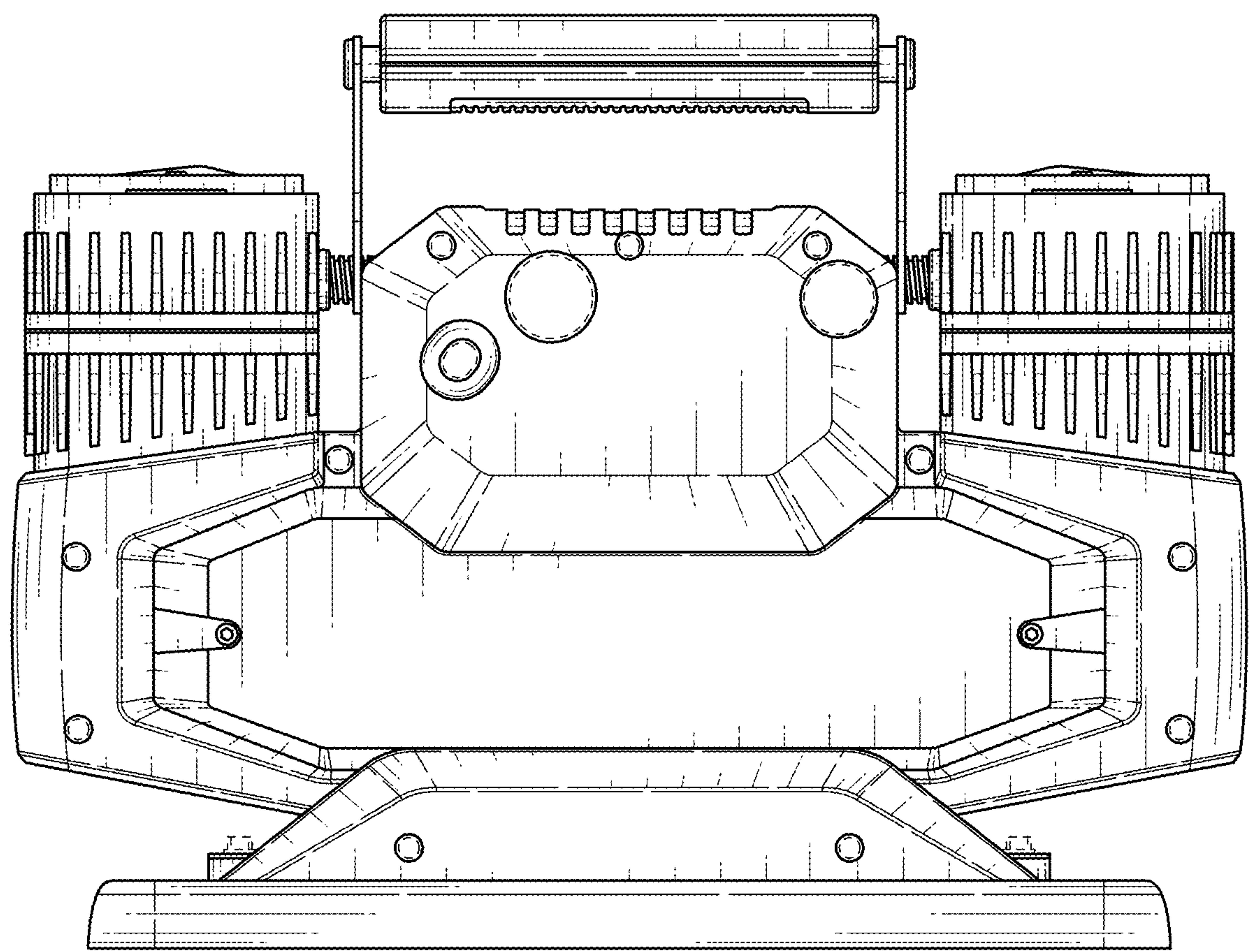


FIG. 4

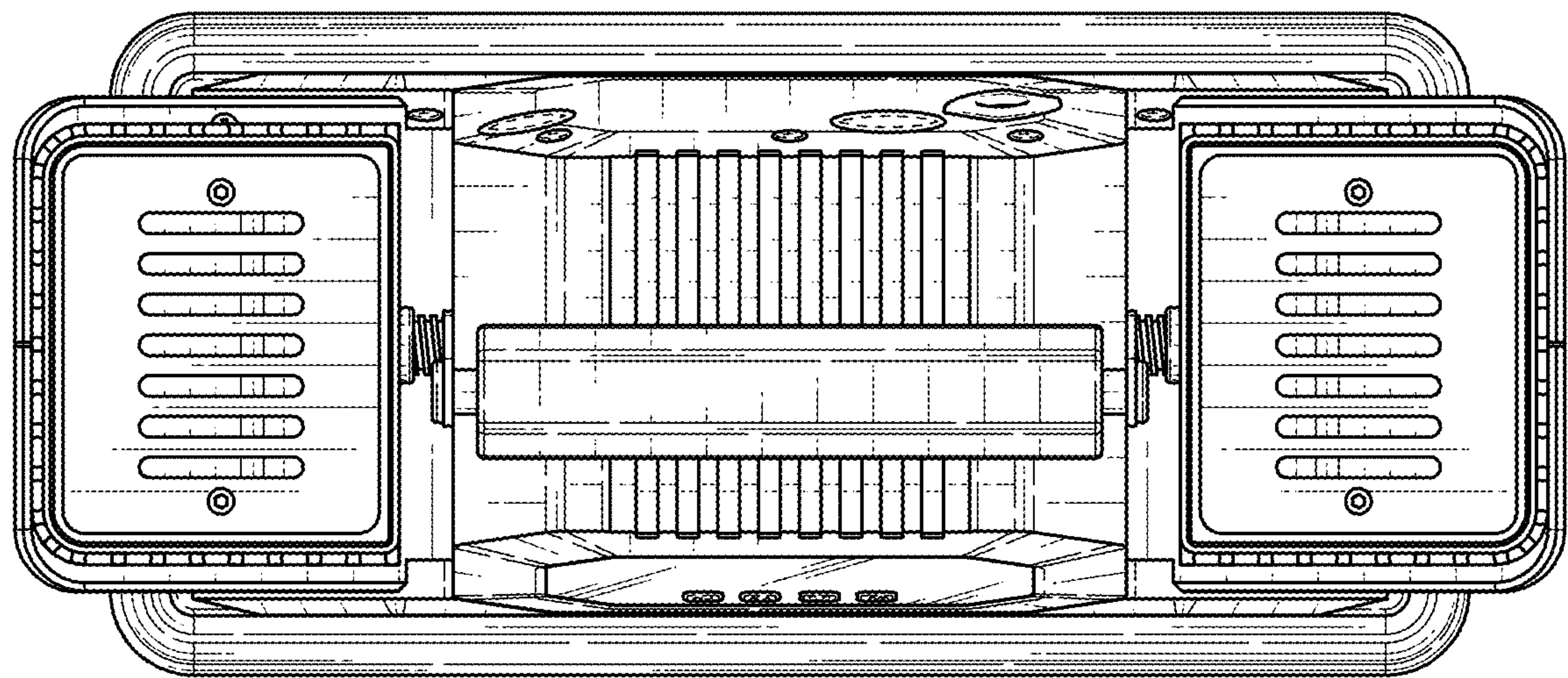


FIG. 5

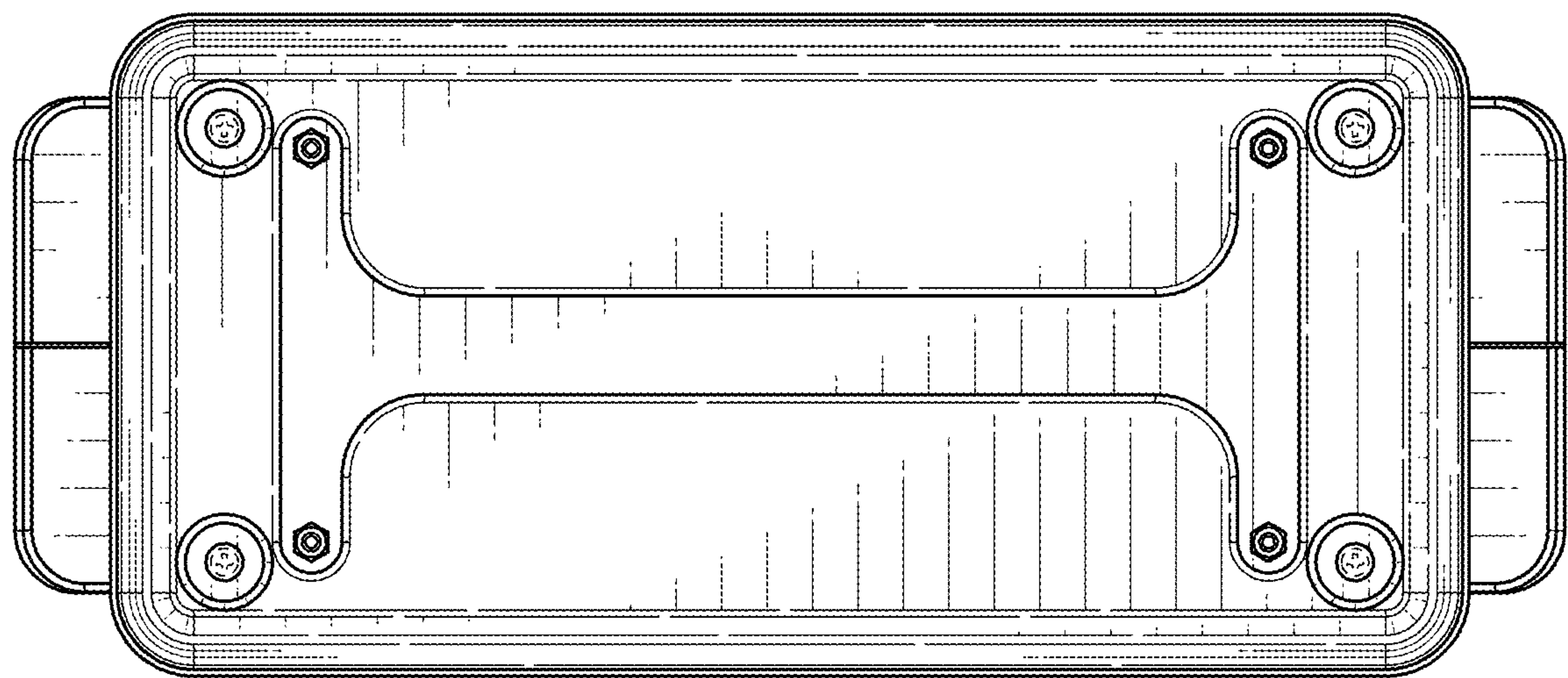


FIG. 6

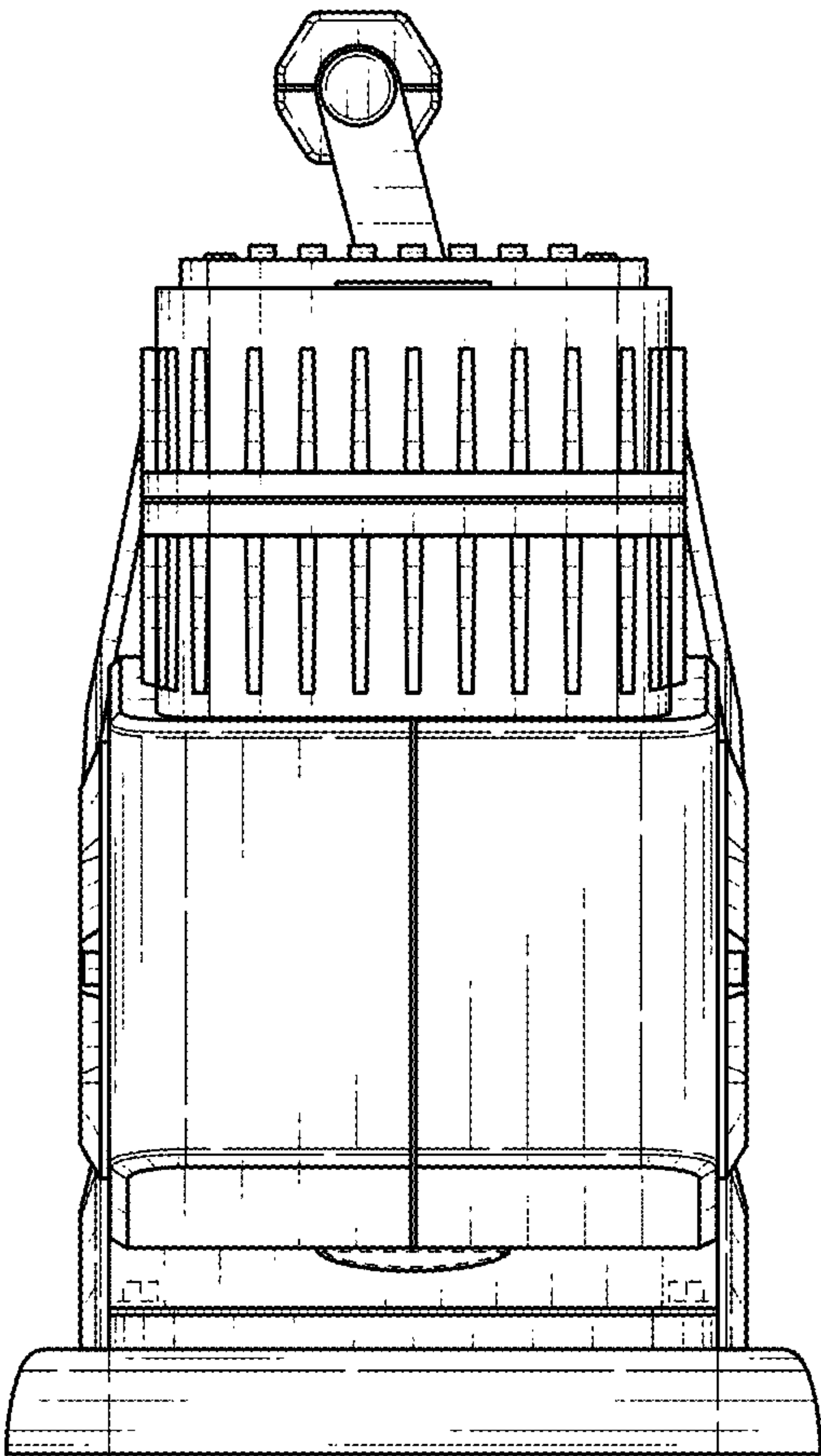


FIG. 7