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

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(54) **HEAT EXCHANGER FOR AUTOMOTIVE APPLICATIONS**

D940,013 S * 1/2022 Wettig D12/166
D958,946 S * 7/2022 Huan D23/323
2012/0080173 A1* 4/2012 Koberstein F28D 1/05391
165/173
2013/0299132 A1* 11/2013 Guilford F28F 9/0131
29/890.03

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

(21) Appl. No.: **29/652,980**

(22) Filed: **Jan. 29, 2021**

(51) **LOC (14) Cl.** **12-16**

(52) **U.S. Cl.**
USPC **D12/166**

(58) **Field of Classification Search**
USPC D12/164-166
CPC F28F 9/001; F28D 1/05366; F28D 1/0435
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D719,649 S * 12/2014 Ainley D23/323
D802,492 S * 11/2017 Pruitt D12/166
D802,493 S * 11/2017 Pruitt D12/166
D827,795 S * 9/2018 Junfeng D23/323
D842,974 S * 3/2019 Szolony D23/323
D890,642 S * 7/2020 Wettig D12/166
D890,643 S * 7/2020 Tafe D12/166
D891,318 S * 7/2020 Platt, Jr. D15/5
D900,161 S * 10/2020 Tafe D15/5
D905,115 S * 12/2020 Tafe D15/5
D905,116 S * 12/2020 Liu D15/5
D911,226 S * 2/2021 Tafe D12/166
D912,701 S * 3/2021 Tafe D15/5

OTHER PUBLICATIONS

“DNA Motoring OEM Aluminum Radiator” DNA Motoring., posted date Aug. 30, 2019 [online], [retrieved on Sep. 26, 2022]. Retrieved from the Internet <URL: <https://www.amazon.com/DNA-MOTORING-OEM-RA-1690-Aluminum-Replacement/dp/B07X6CFYZ?th=1>> (Year: 2019).*

(Continued)

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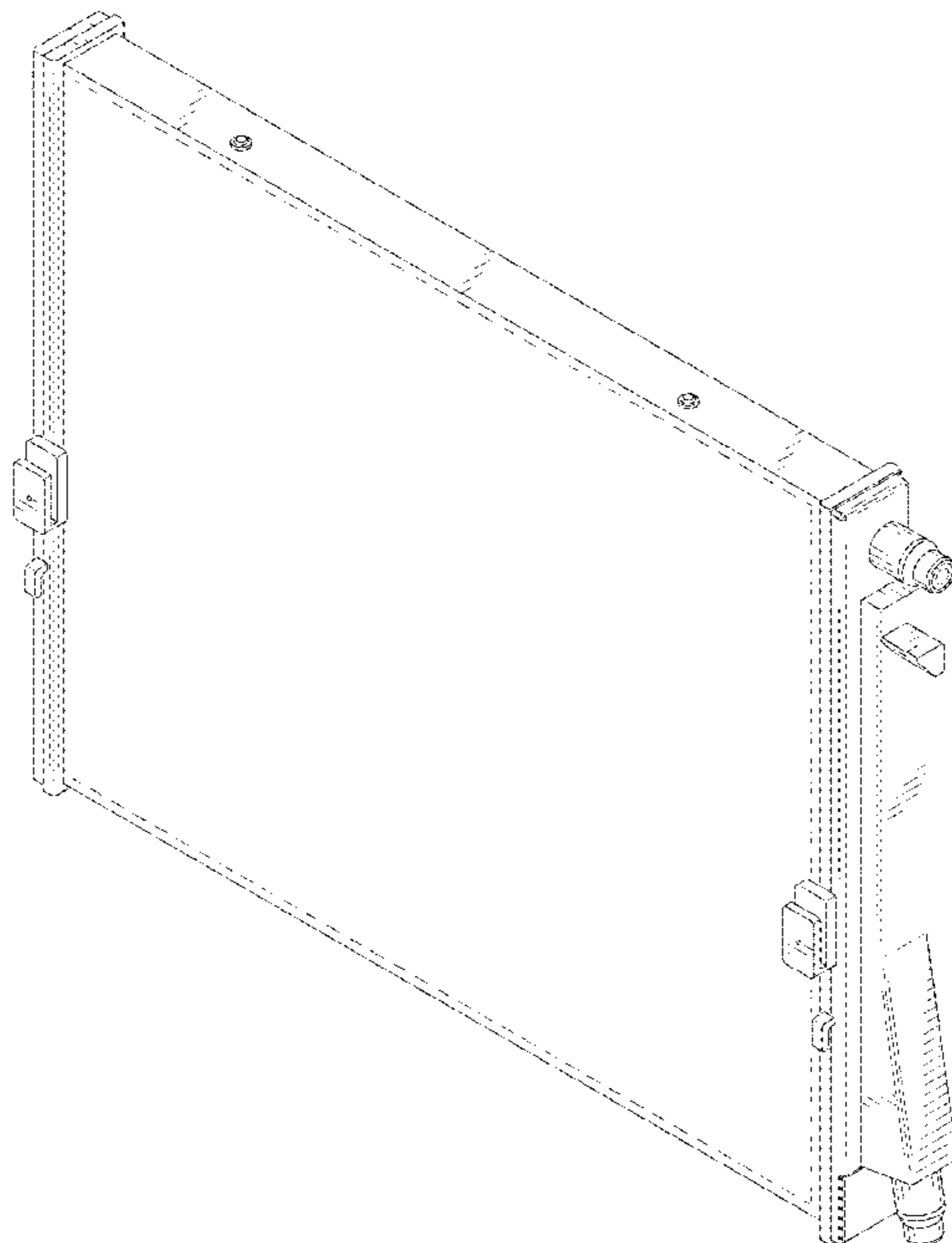
(57) **CLAIM**

The ornamental design for a heat exchanger for automotive applications, as shown and described.

DESCRIPTION

FIG. 1 is a top front perspective view of the heat exchanger for automotive applications showing my new design; FIG. 2 is a front elevation view thereof; FIG. 3 is a rear elevation view thereof; FIG. 4 is a left side elevation view thereof; FIG. 5 is a right side elevation view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof. The broken lines shown in the drawings illustrate portions of the heat exchanger for automotive applications that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

“Radiator for Dodge Ram” TRQ., posted date Nov. 16, 2017 [online], [retrieved on Sep. 26, 2022]. Retrieved from the Internet <URL: <https://www.amazon.com/Radiator-Dodge-1500-Pickup-Truck/dp/B077J8G4JN>> (Year: 2017).*

“ALLOYWORKS 3 Row All Aluminum Radiator” ALLOYWORKS., posted date Oct. 20, 2016 [online], [retrieved on Sep. 26, 2022]. Retrieved from the Internet <URL: <https://www.amazon.com/ALLOYWORKS-Aluminum-Radiator-2003-2007-Chassis/dp/B077XNCZ71?th=1>> (Year: 2016).*

* cited by examiner

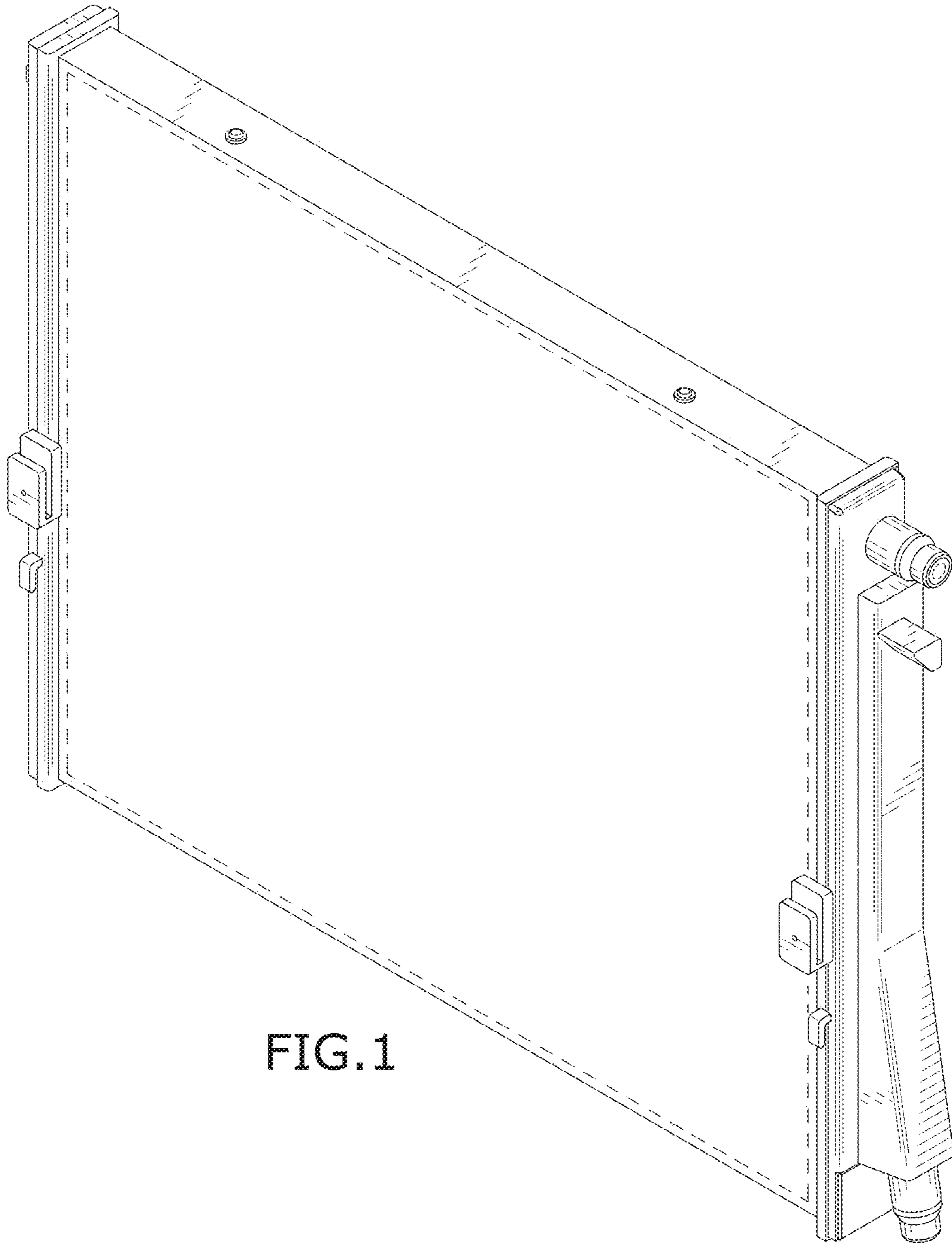


FIG. 1

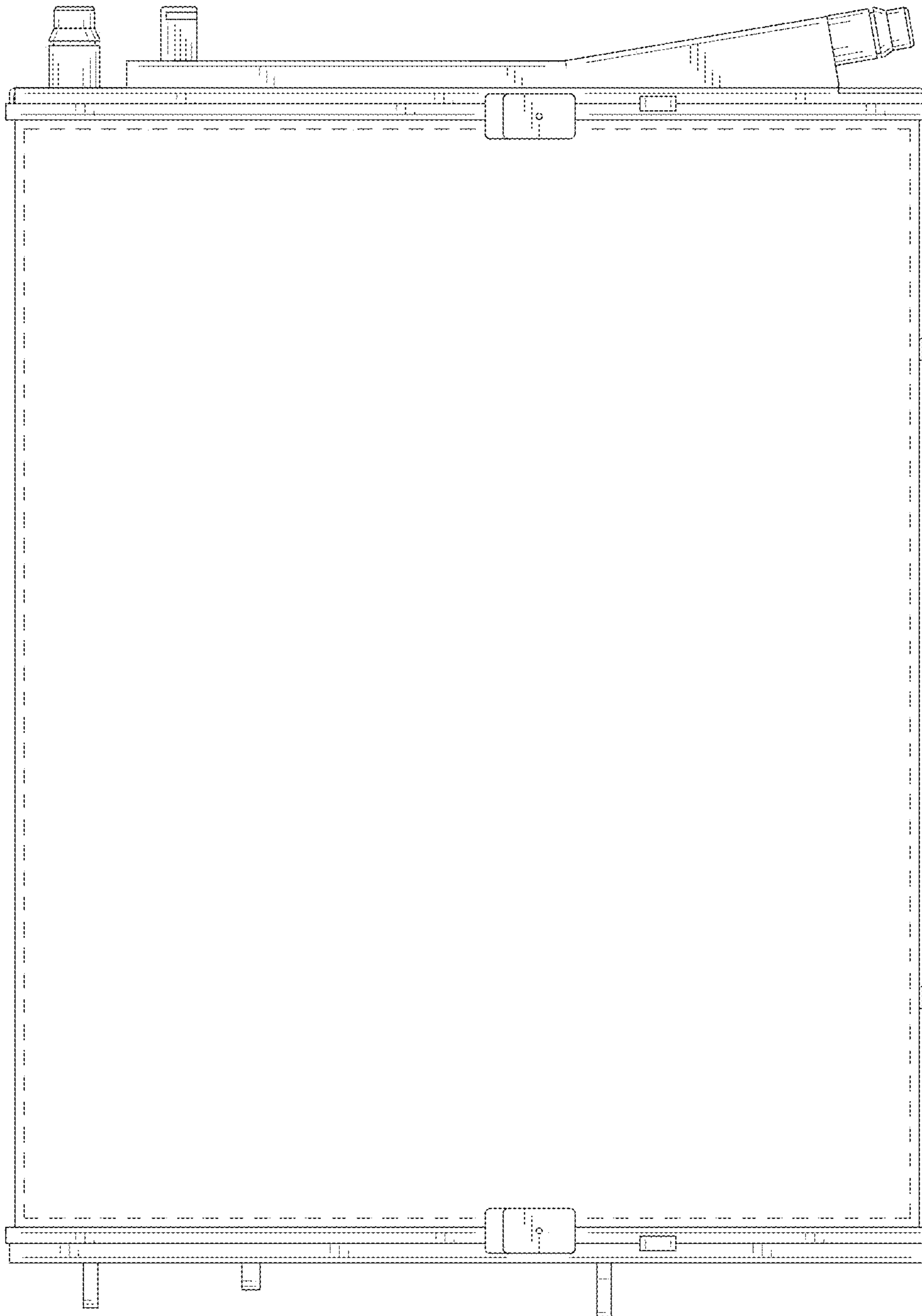


FIG.2

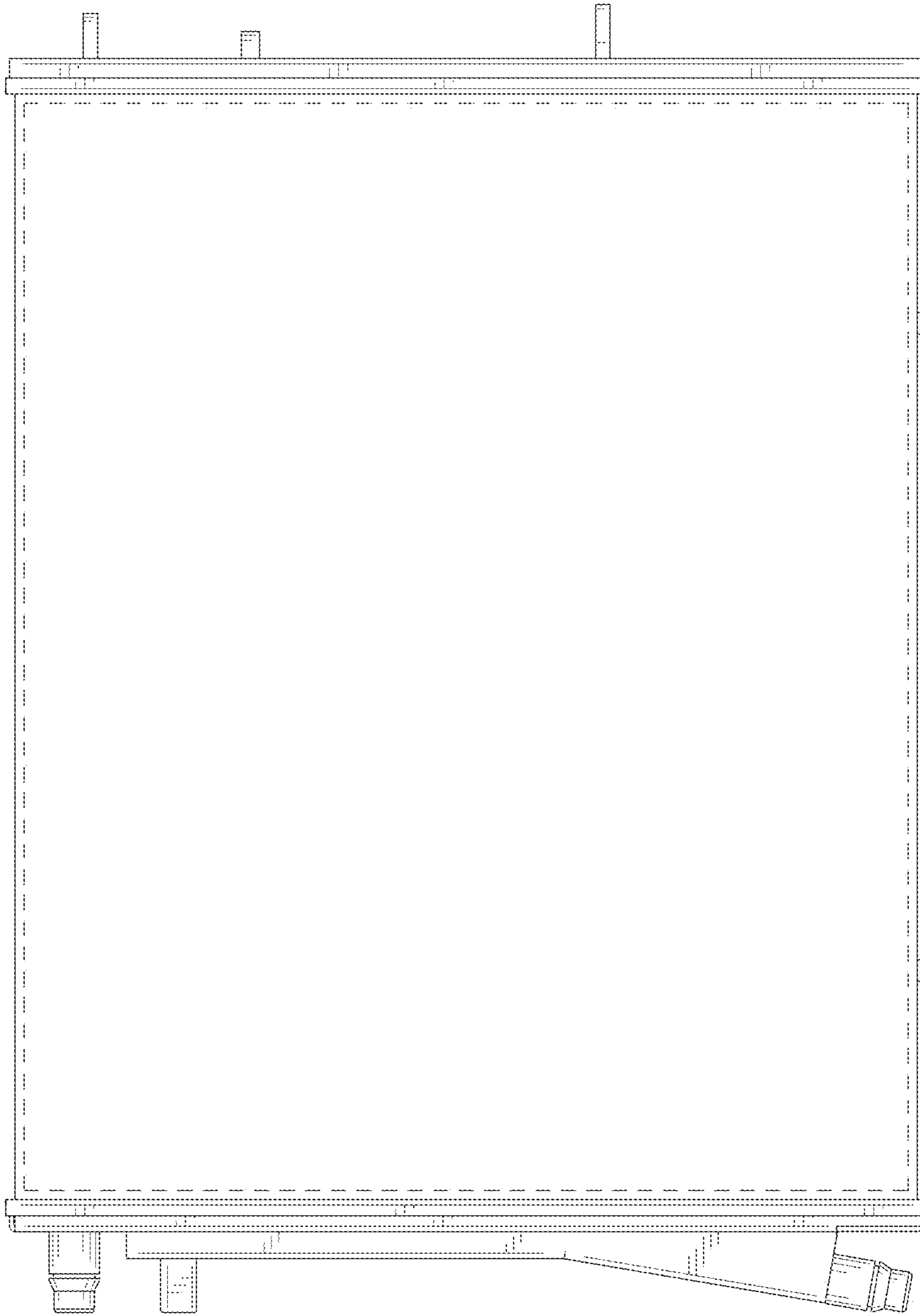


FIG. 3

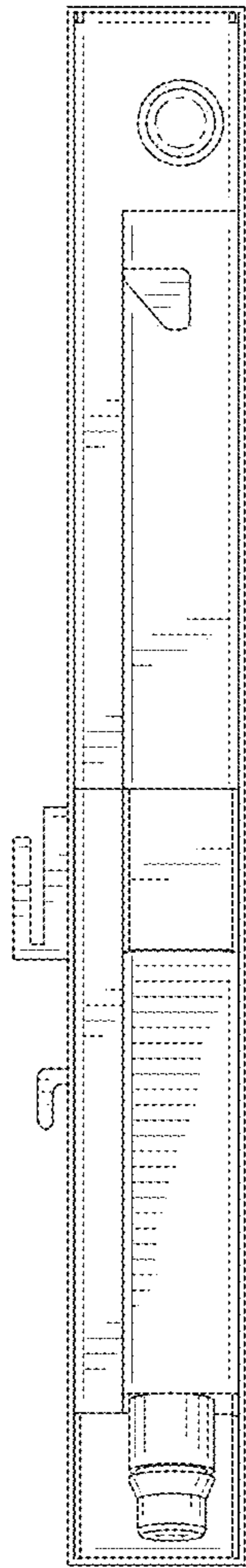


FIG. 4

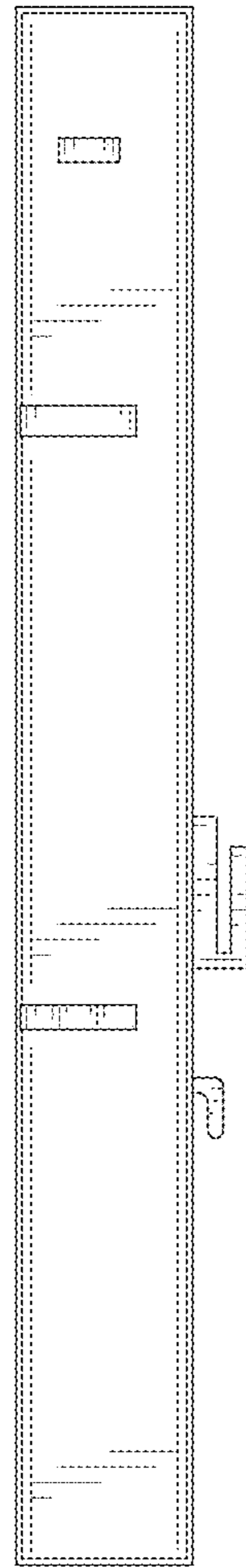


FIG. 5

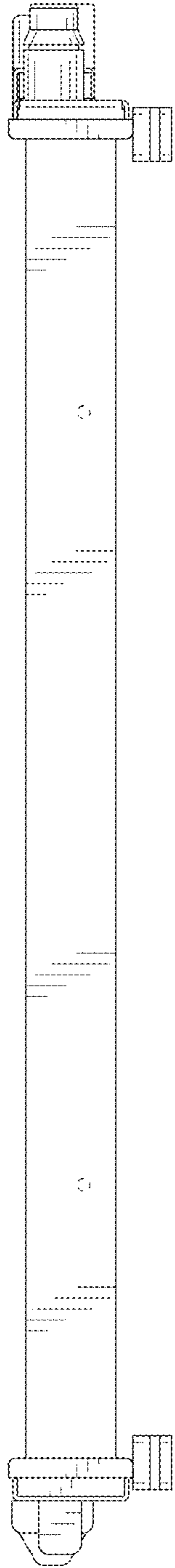


FIG. 6

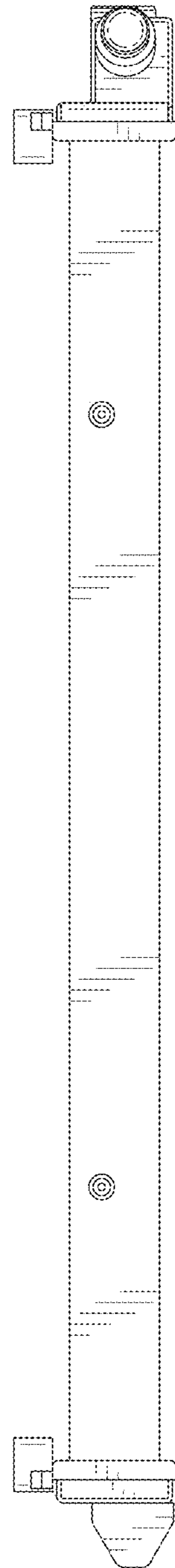


FIG. 7