



US00D845454S

(12) **United States Design Patent** (10) **Patent No.:** **US D845,454 S**
Junfeng (45) **Date of Patent:** **** Apr. 9, 2019**

(54) **HEAT EXCHANGER**

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

(21) Appl. No.: **29/637,680**

(22) Filed: **Feb. 21, 2018**

Related U.S. Application Data

(62) Division of application No. 29/588,835, filed on Dec. 23, 2016.

(30) **Foreign Application Priority Data**

Jul. 6, 2016 (CN) 2016 3 0305055

(51) **LOC (11) Cl.** **23-03**

(52) **U.S. Cl.**
USPC **D23/323**

(58) **Field of Classification Search**

USPC D23/323, 322, 324, 386, 325, 327, 354,
D23/330; D7/407; D13/179

CPC F28F 1/06; F28F 1/16; F28F 1/21; F28F
9/02; F28D 1/047; F28D 13/12; F28D
7/06; F28D 7/10; F28D 2001/0266; B21D
53/02; F28B 1/06

See application file for complete search history.

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a rear, right side and top perspective view of the heat exchanger in accordance with a first embodiment;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is a rear, right side and top perspective view of the heat exchanger in accordance with a second embodiment;

FIG. 9 is a front view thereof;

FIG. 10 is a rear view thereof;

FIG. 11 is a left side view thereof;

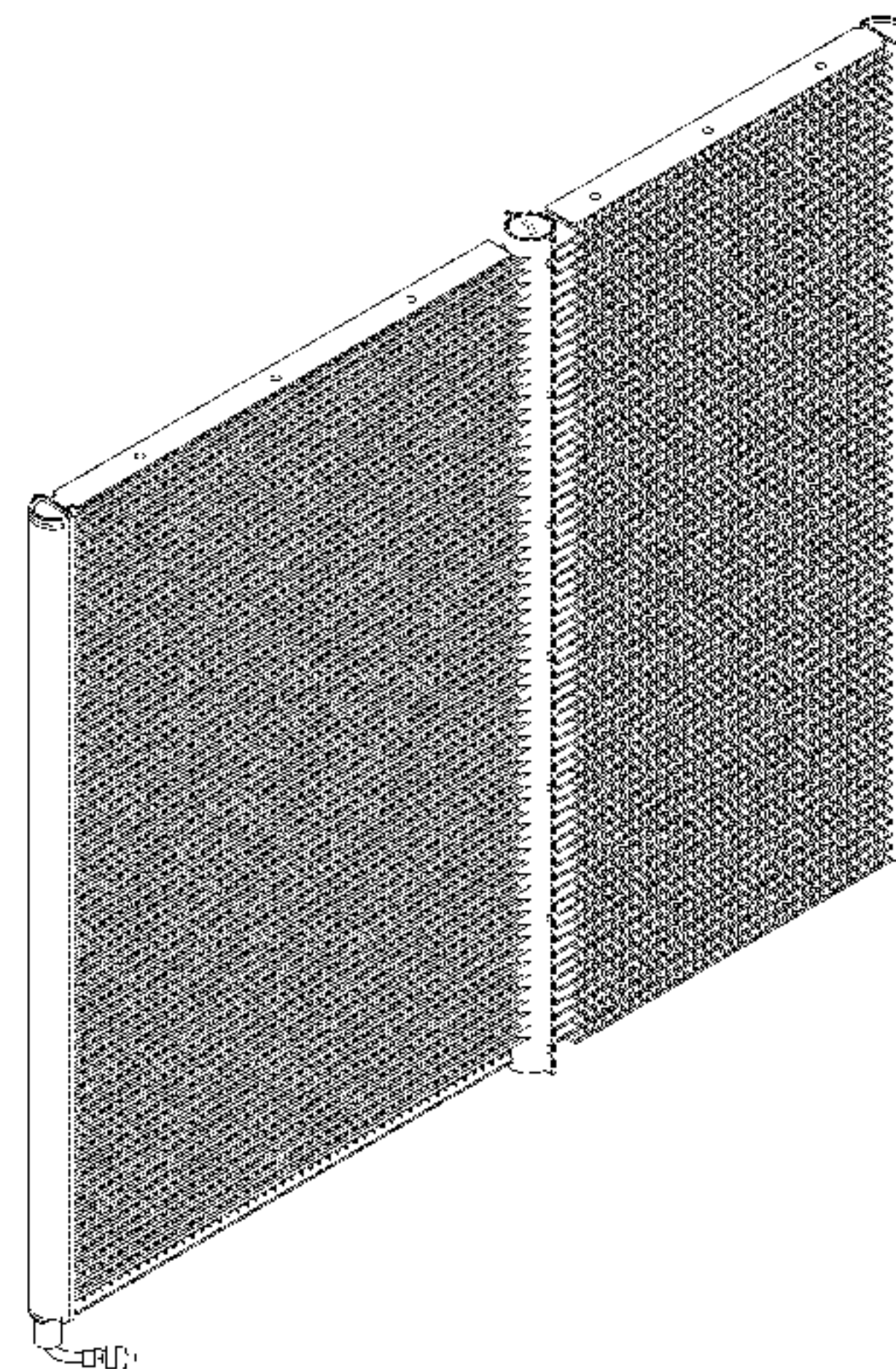
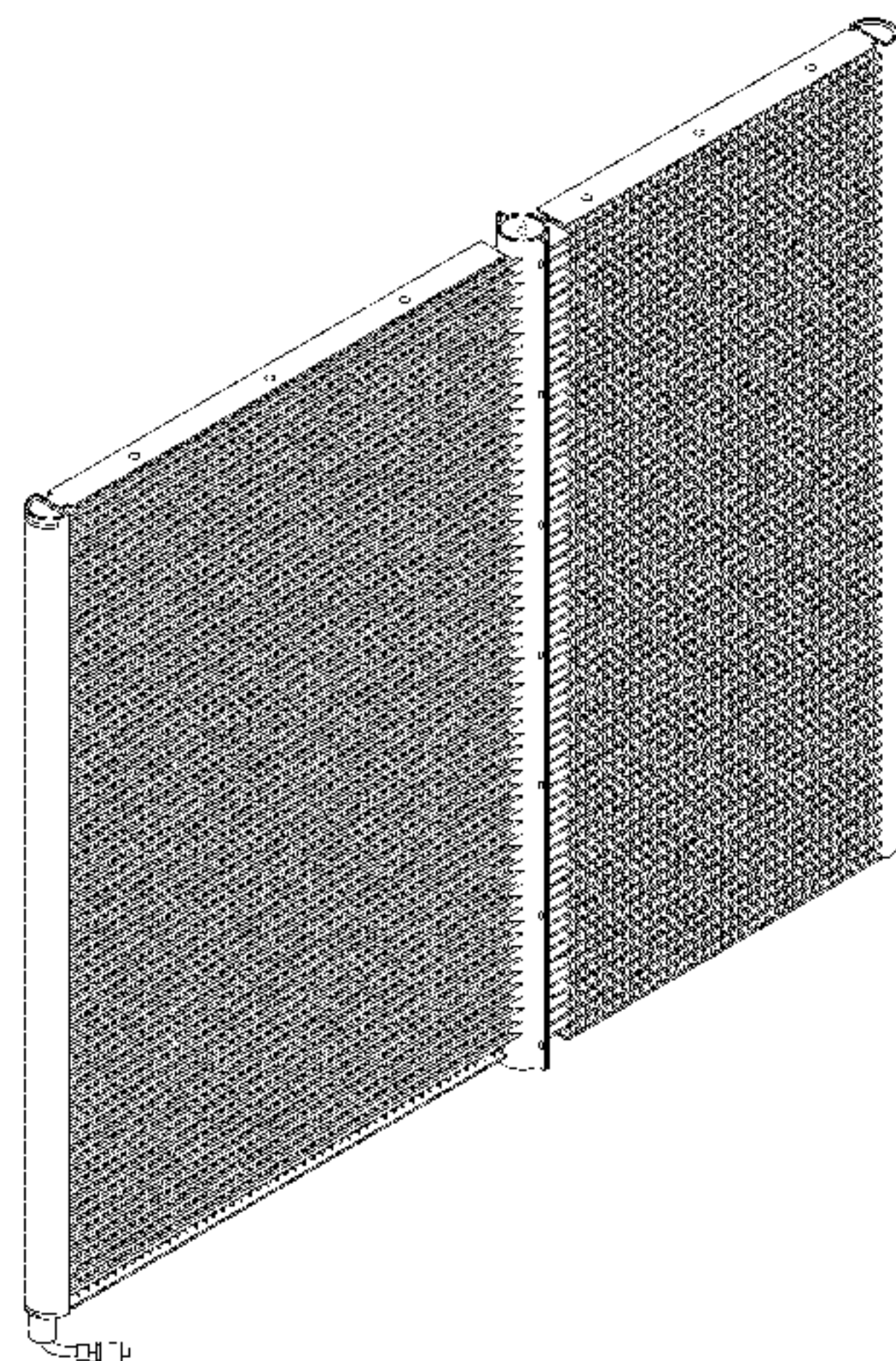
FIG. 12 is a right side view thereof;

FIG. 13 is a top view thereof; and,

FIG. 14 is a bottom view thereof.

The broken lines show portions of the heat exchanger that form no part of the claimed design.

1 Claim, 14 Drawing Sheets



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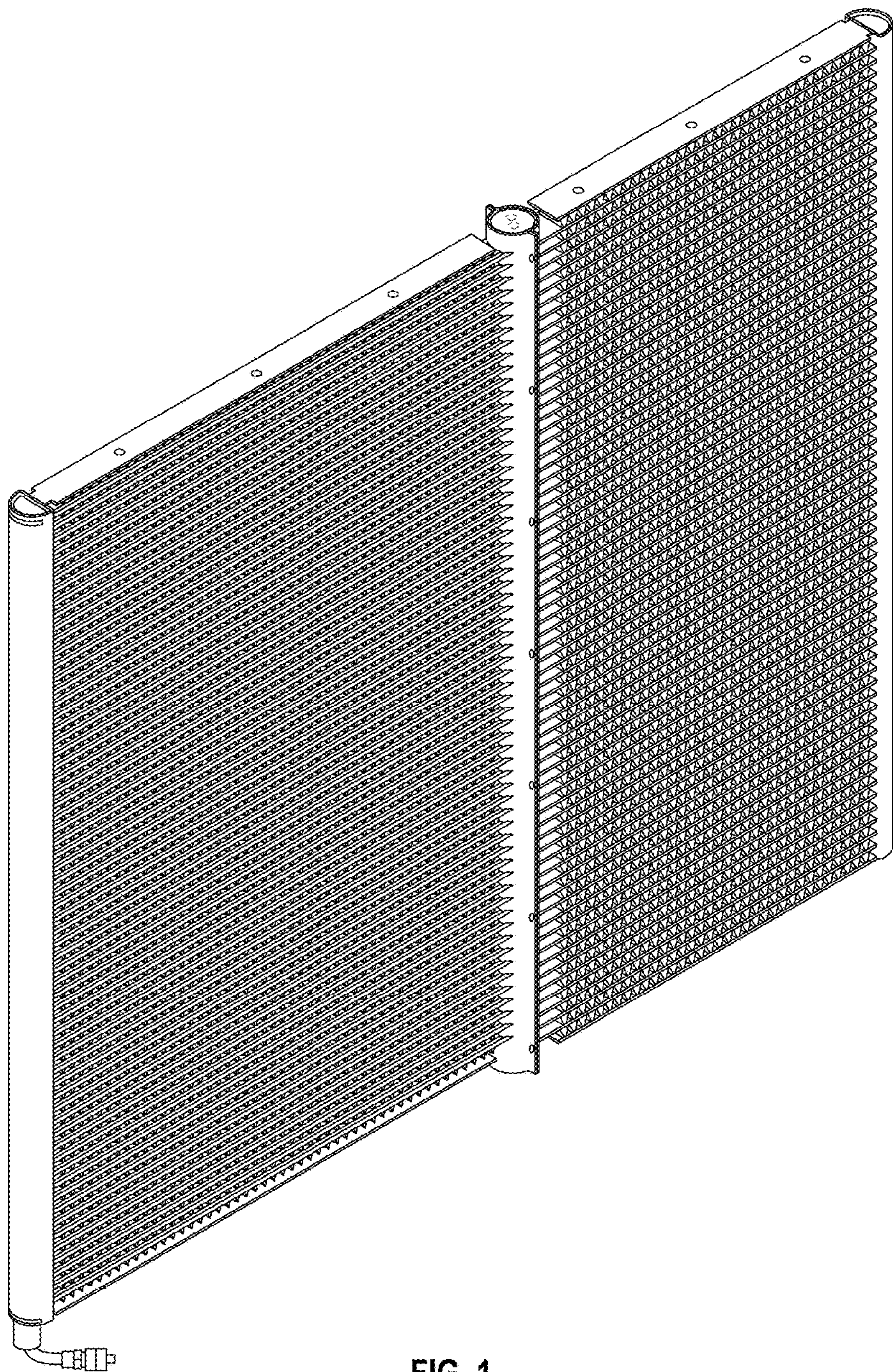


FIG. 1

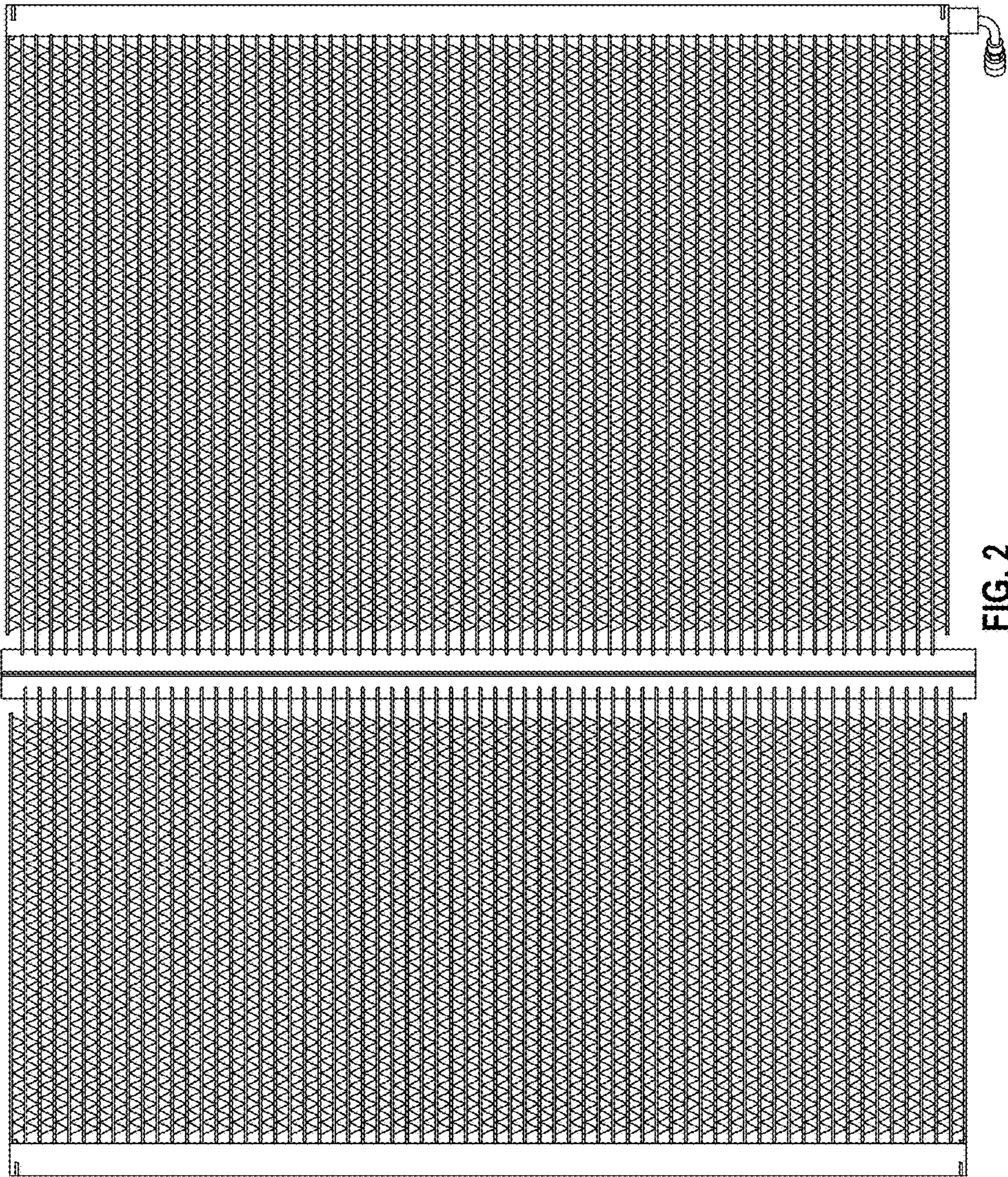


FIG. 2

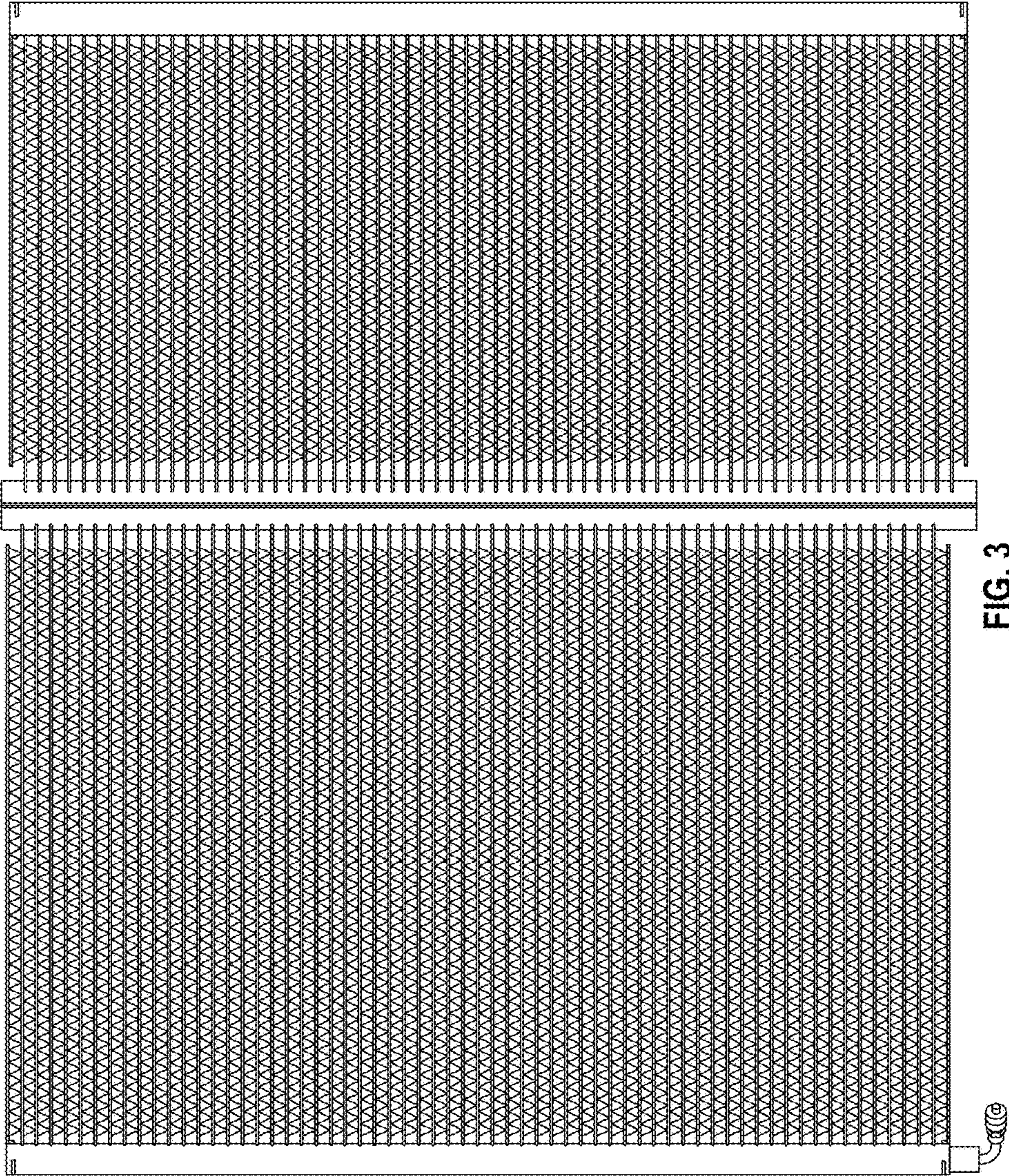


FIG. 3

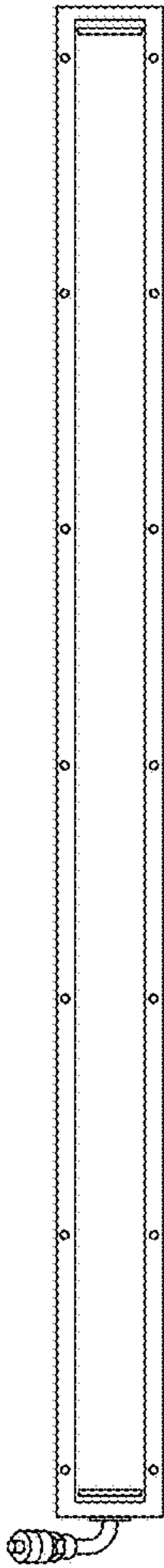


FIG. 4

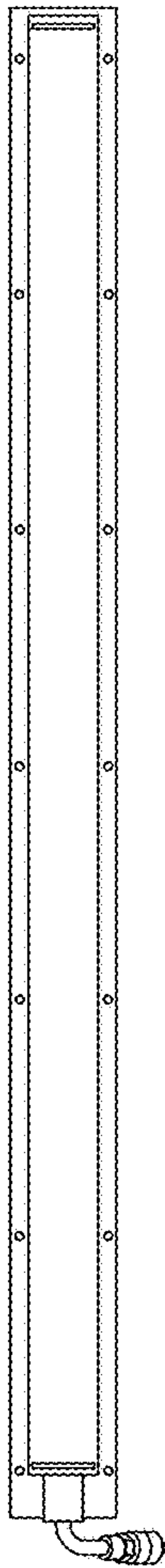


FIG. 5

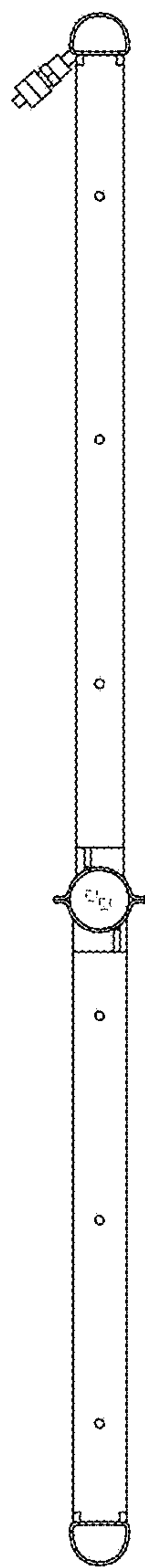


FIG. 6

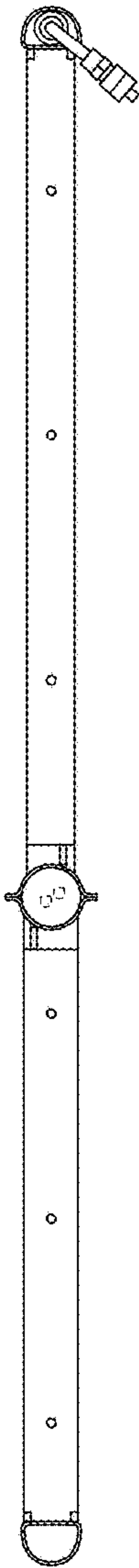


FIG. 7

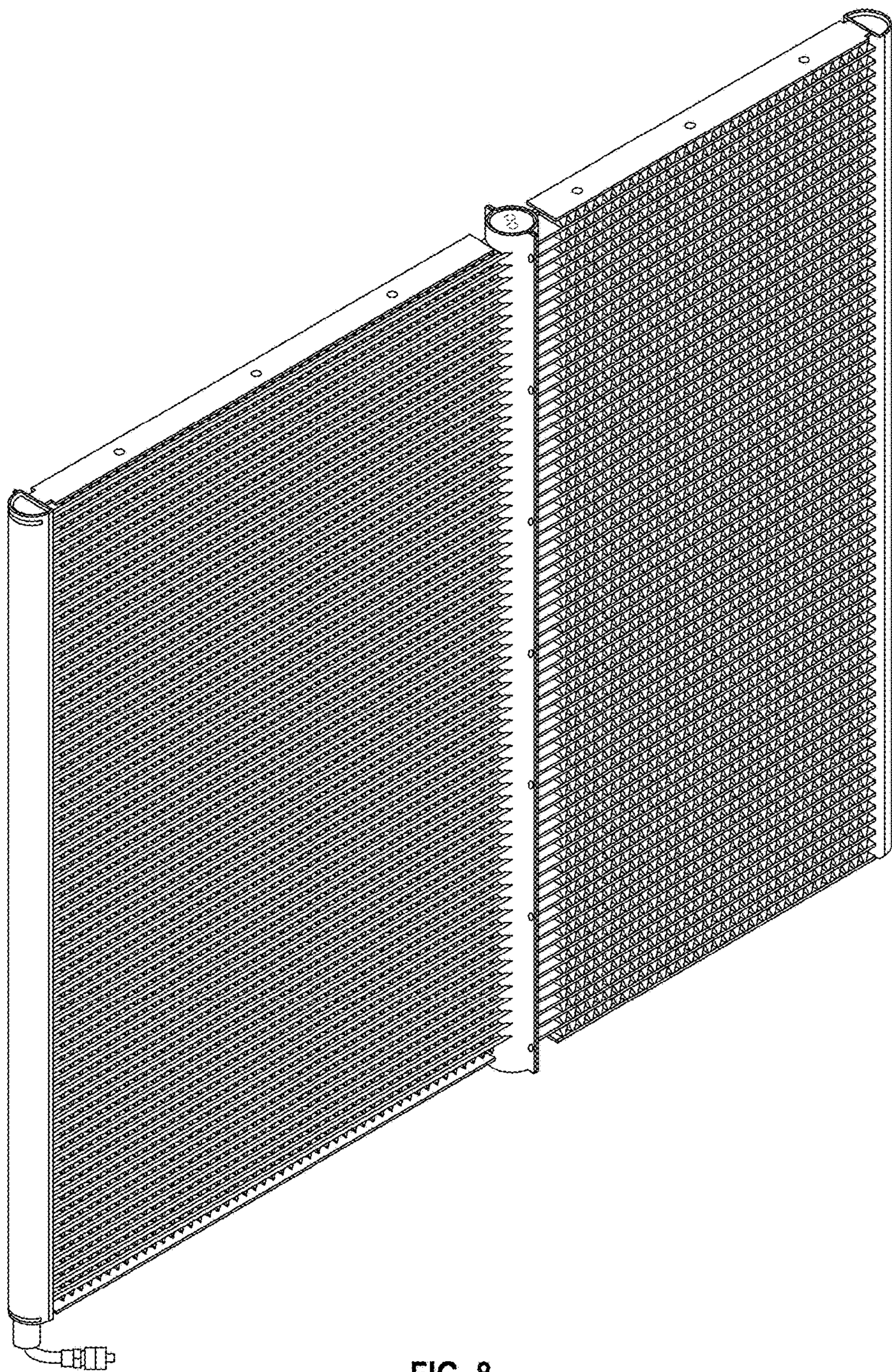
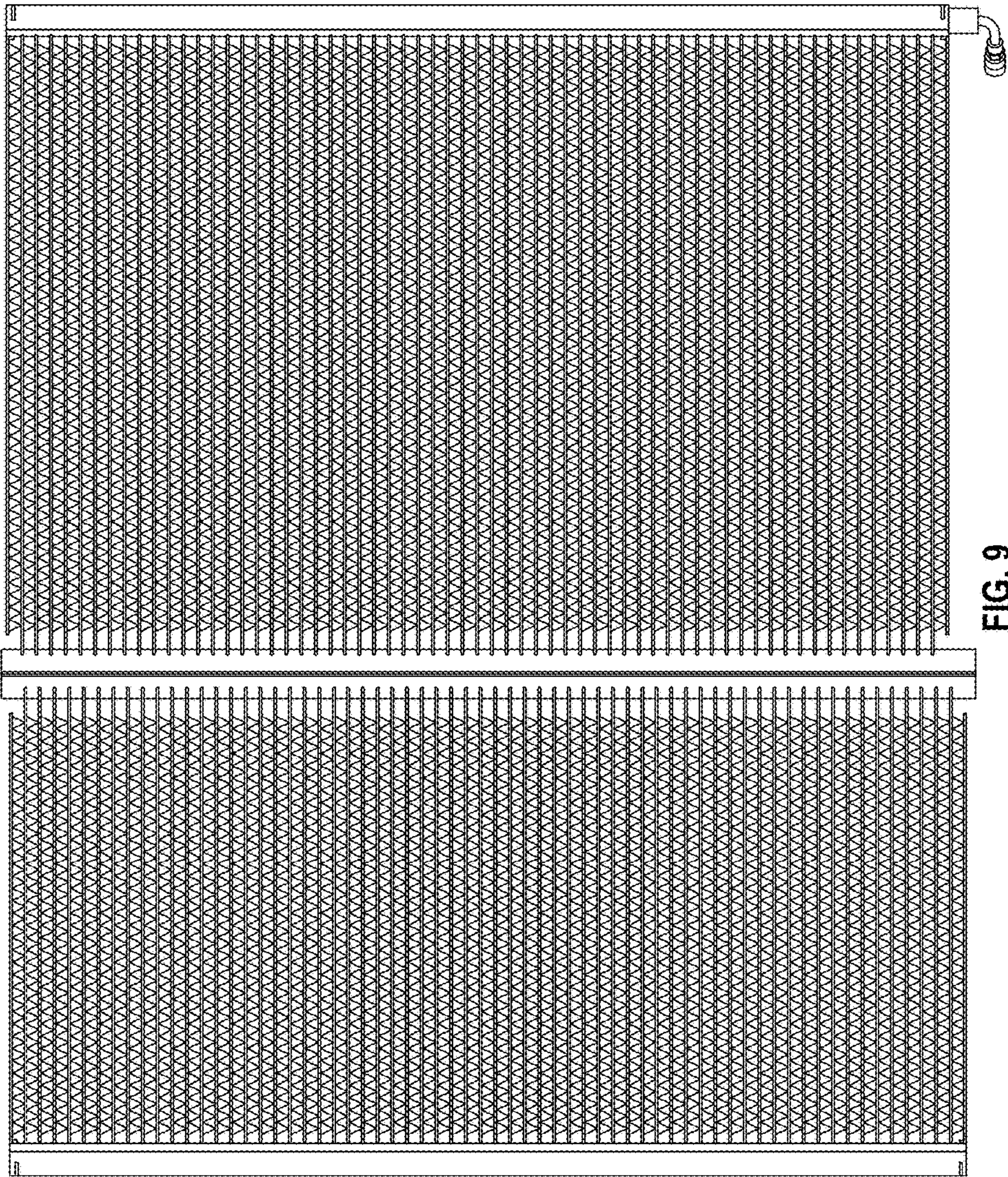


FIG. 8



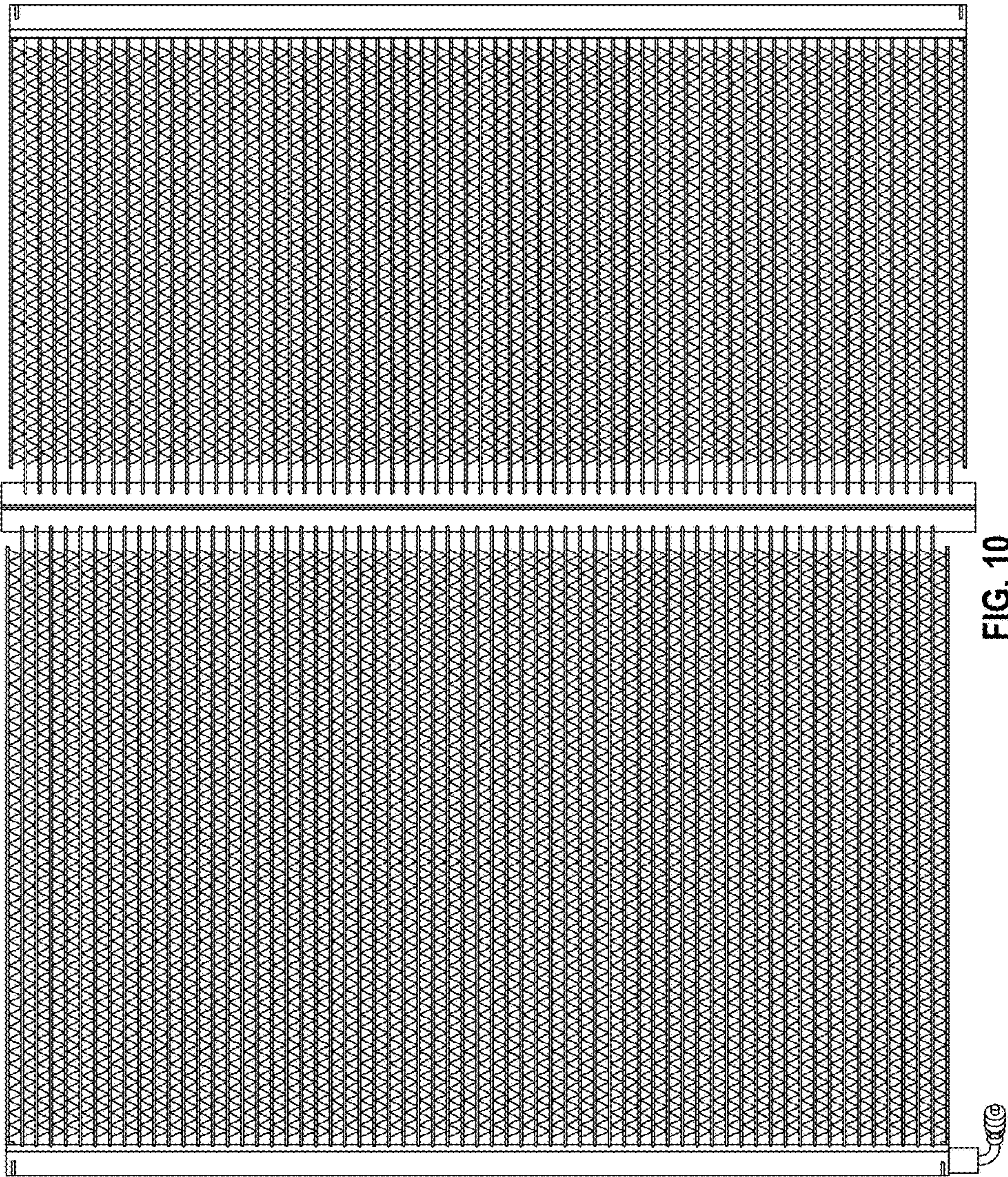


FIG. 10



FIG. 11

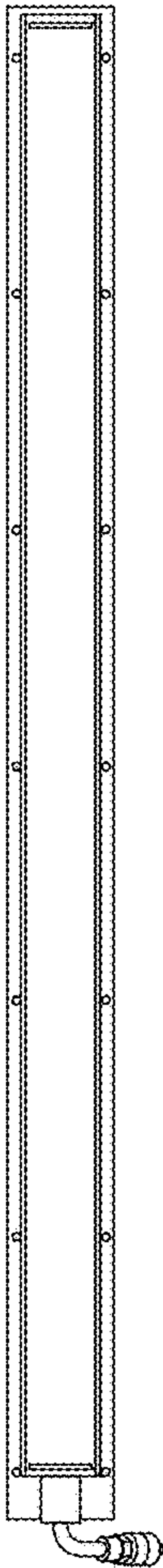


FIG. 12

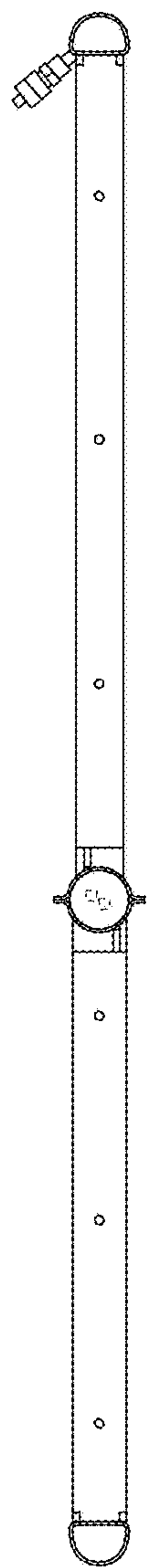


FIG. 13

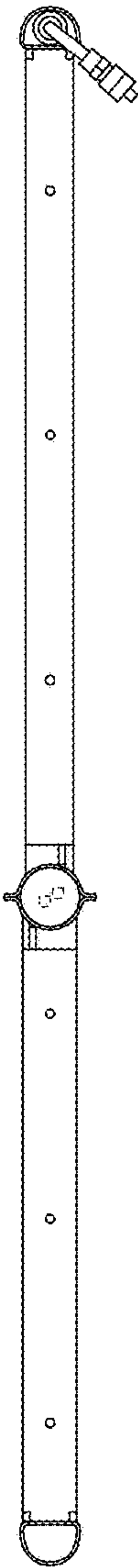


FIG. 14