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(12) **United States Design Patent** (10) **Patent No.:** **US D787,033 S**
Huan et al. (45) **Date of Patent:** **** May 16, 2017**

(54) **HEAT EXCHANGER** 2011/0139425 A1* 6/2011 Beamer F28D 1/0476
165/175

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Haiyan (CN) 2014/0366571 A1* 12/2014 Gao F25B 39/02
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Haiyan (CN) CN 201430183084.8 6/2014

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

(21) Appl. No.: **29/569,059**

(22) Filed: **Jun. 23, 2016**

(30) **Foreign Application Priority Data**

Dec. 24, 2015 (CN) 2015 3 0553986

(51) **LOC (10) Cl.** **23-03**

(52) **U.S. Cl.**
USPC **D23/323; D23/325**

(58) **Field of Classification Search**
USPC D23/323, 324, 330, 335–339, 341,
D23/354–355, 386, 499; D13/179
CPC .. F28F 1/0475; F28F 1/10; F28F 1/126; F28F
1/325; F28F 1/18; F28F 1/28; F28F
9/262; F28D 1/0408; F28D 1/0476; F28D
1/05366; F23D 14/06
See application file for complete search history.

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front, bottom, left-side perspective view of a heat
exchanger comprising a new, original and ornamental
design;

FIG. 2 is a front view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is a left-side view thereof;

FIG. 6 is a right-side view thereof;

FIG. 7 is a bottom, front, left-side perspective view of the
heat exchanger in accordance with a second embodiment;

FIG. 8 is a front view thereof;

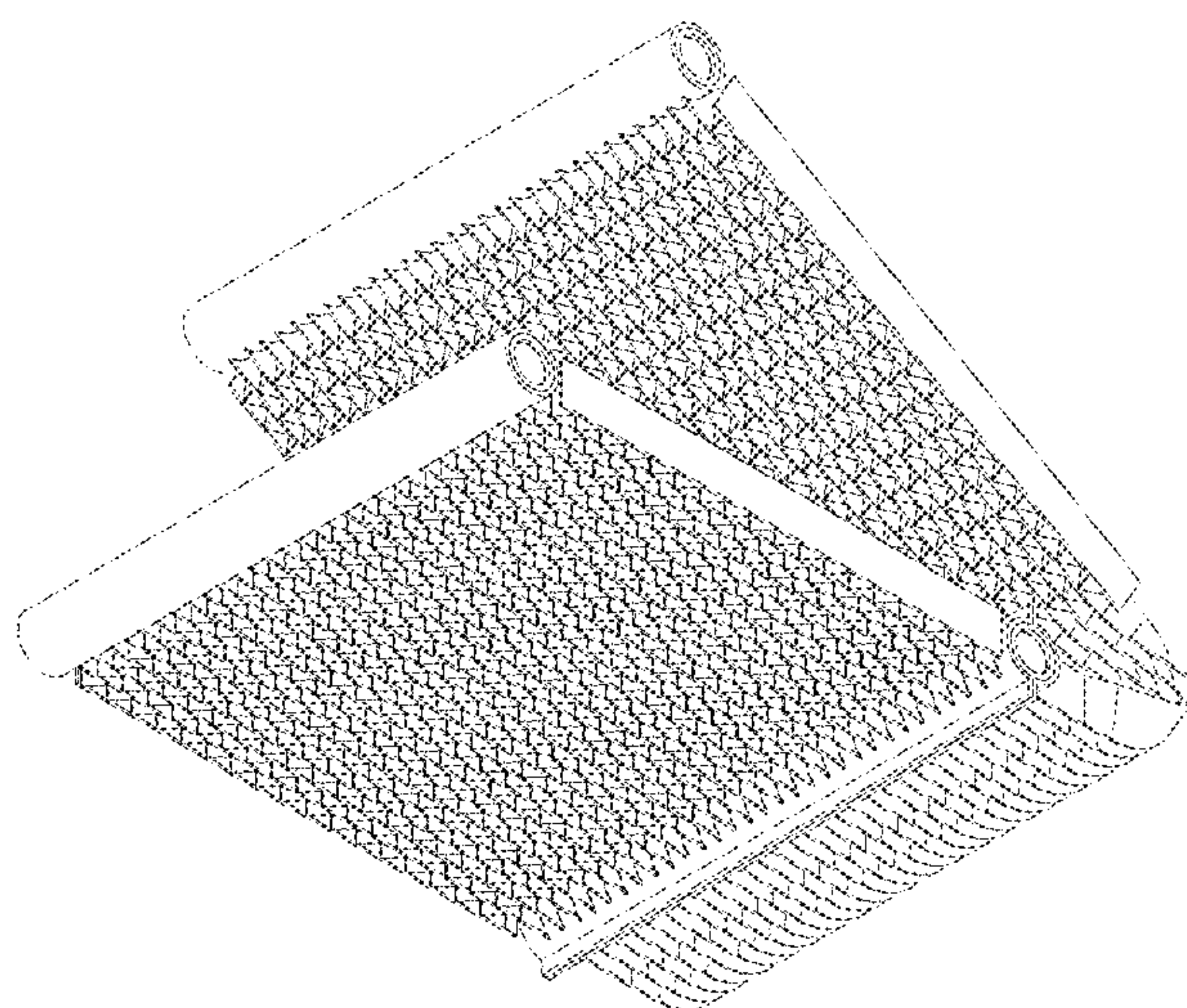
FIG. 9 is a bottom view thereof;

FIG. 10 is a top view thereof;

FIG. 11 is a left-side view thereof; and,

FIG. 12 is a right-side view thereof.

1 Claim, 12 Drawing Sheets



U.S. PATENT DOCUMENTS

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* cited by examiner

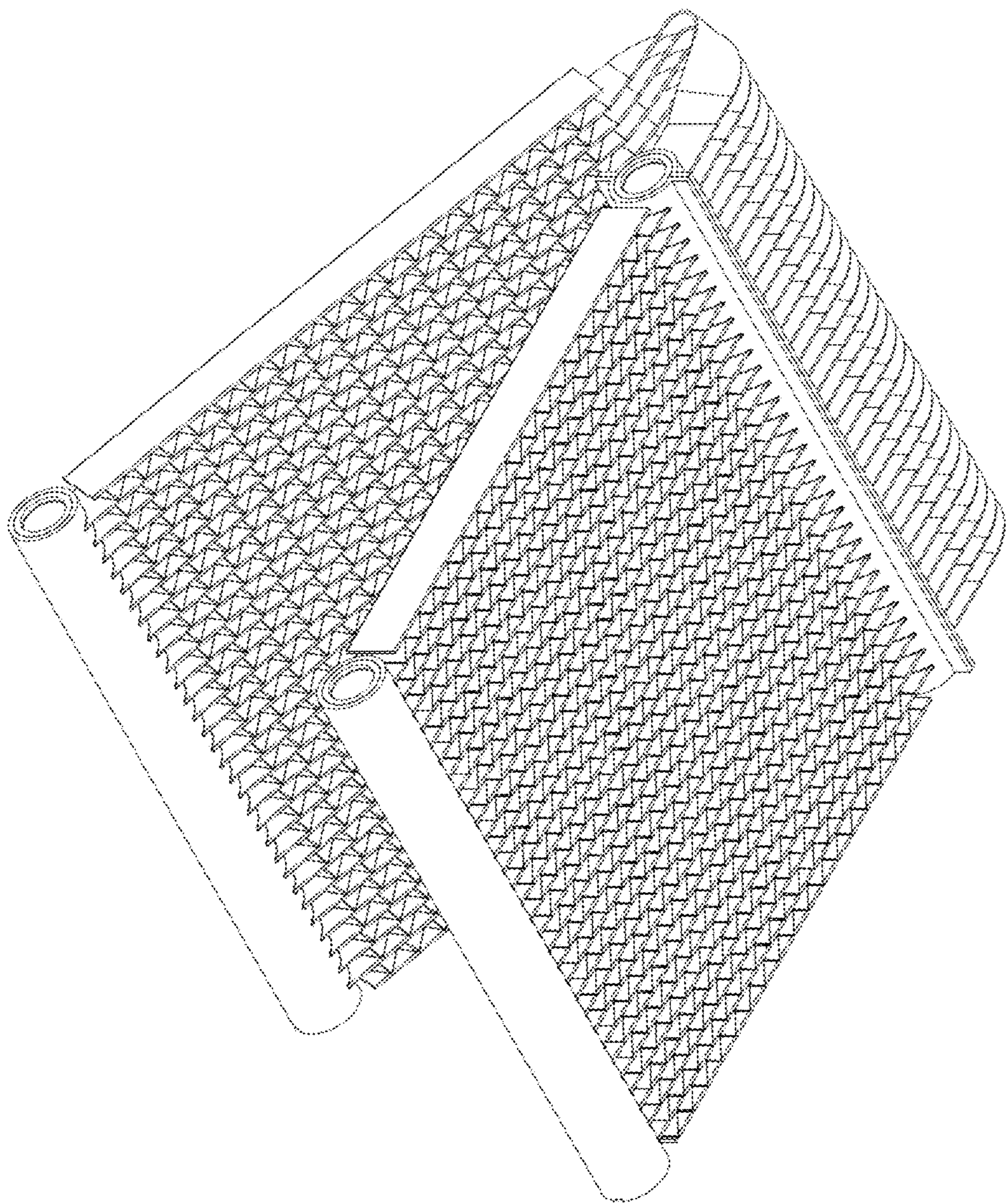


FIG. 1

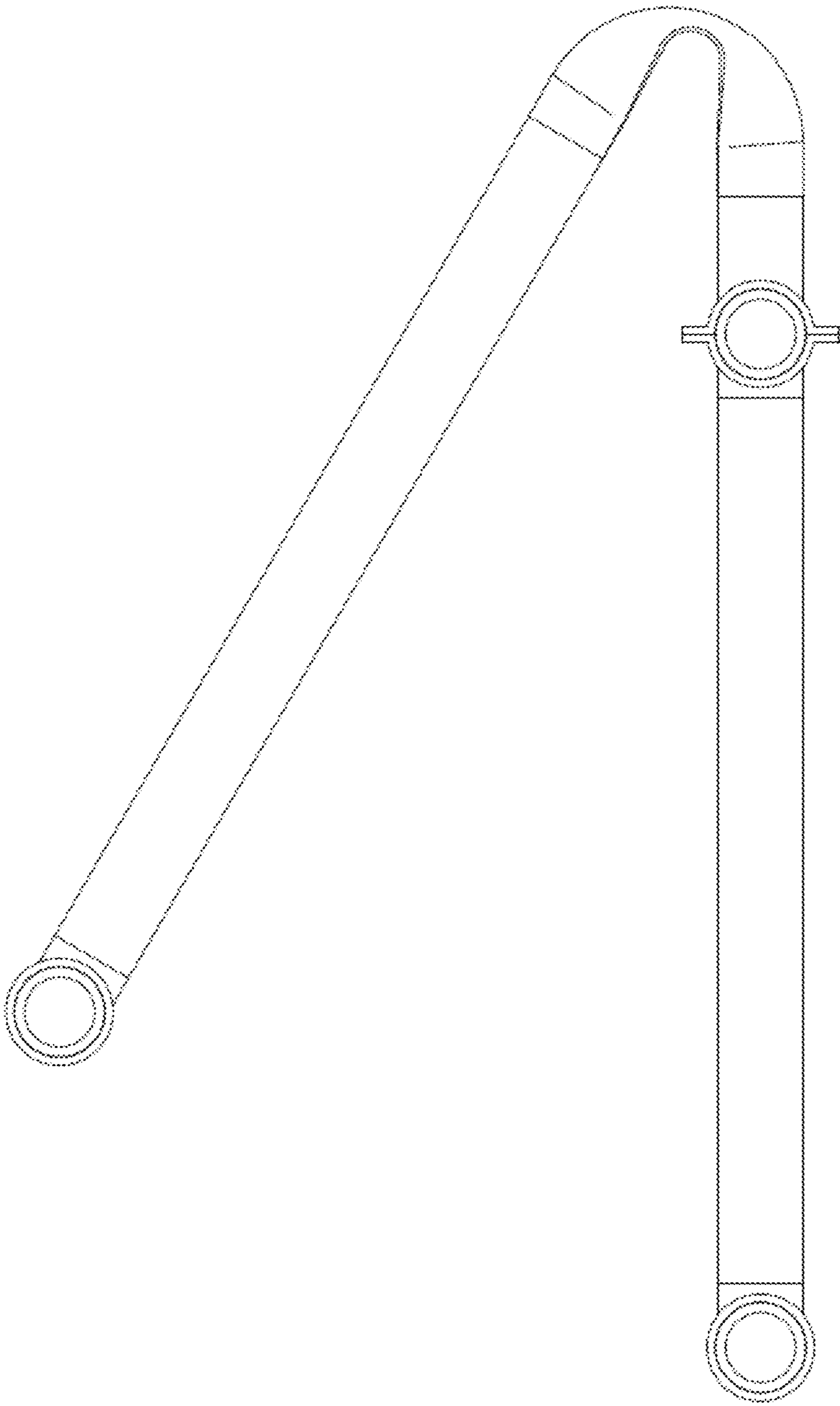


FIG. 2

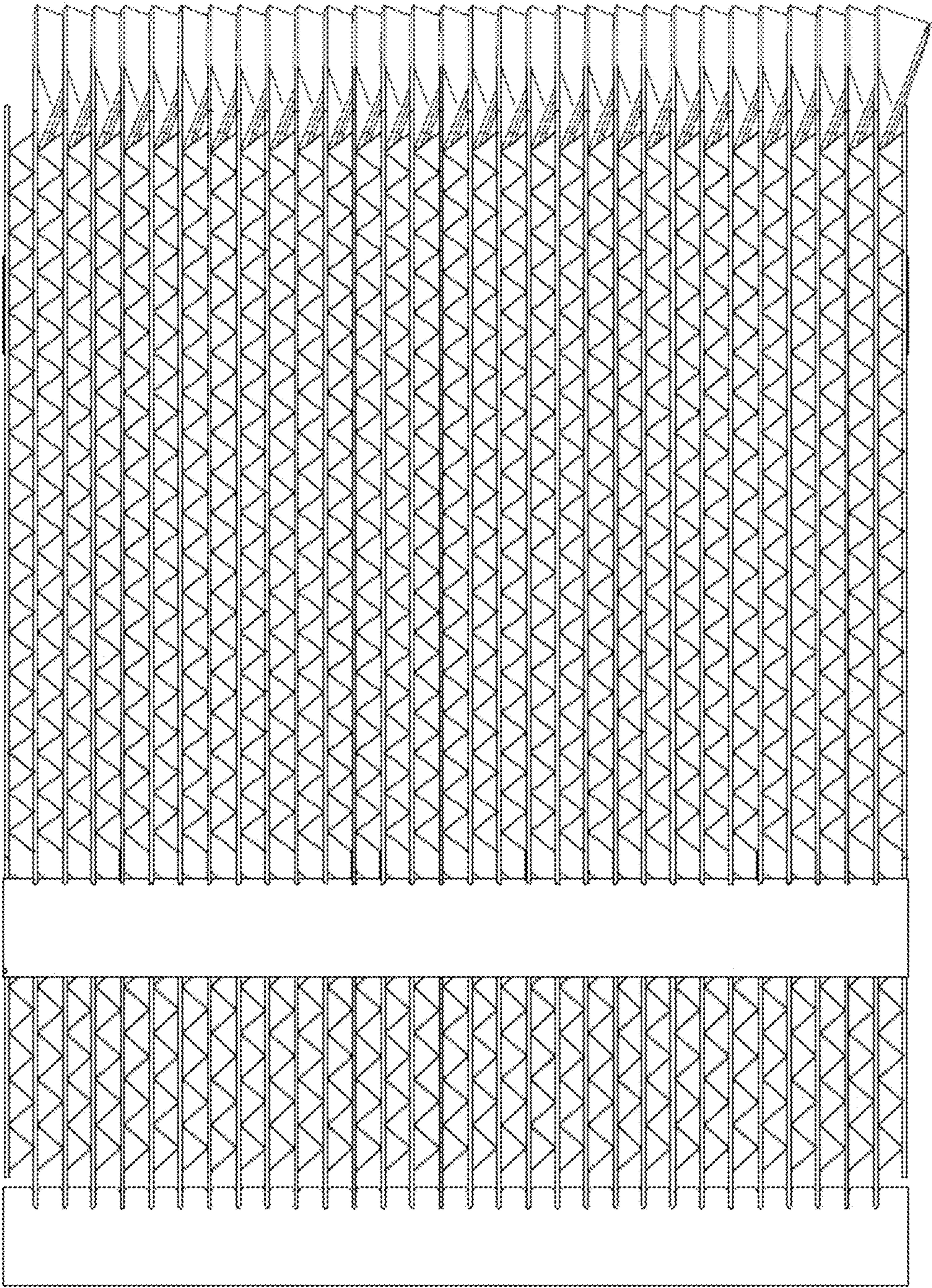


FIG. 3

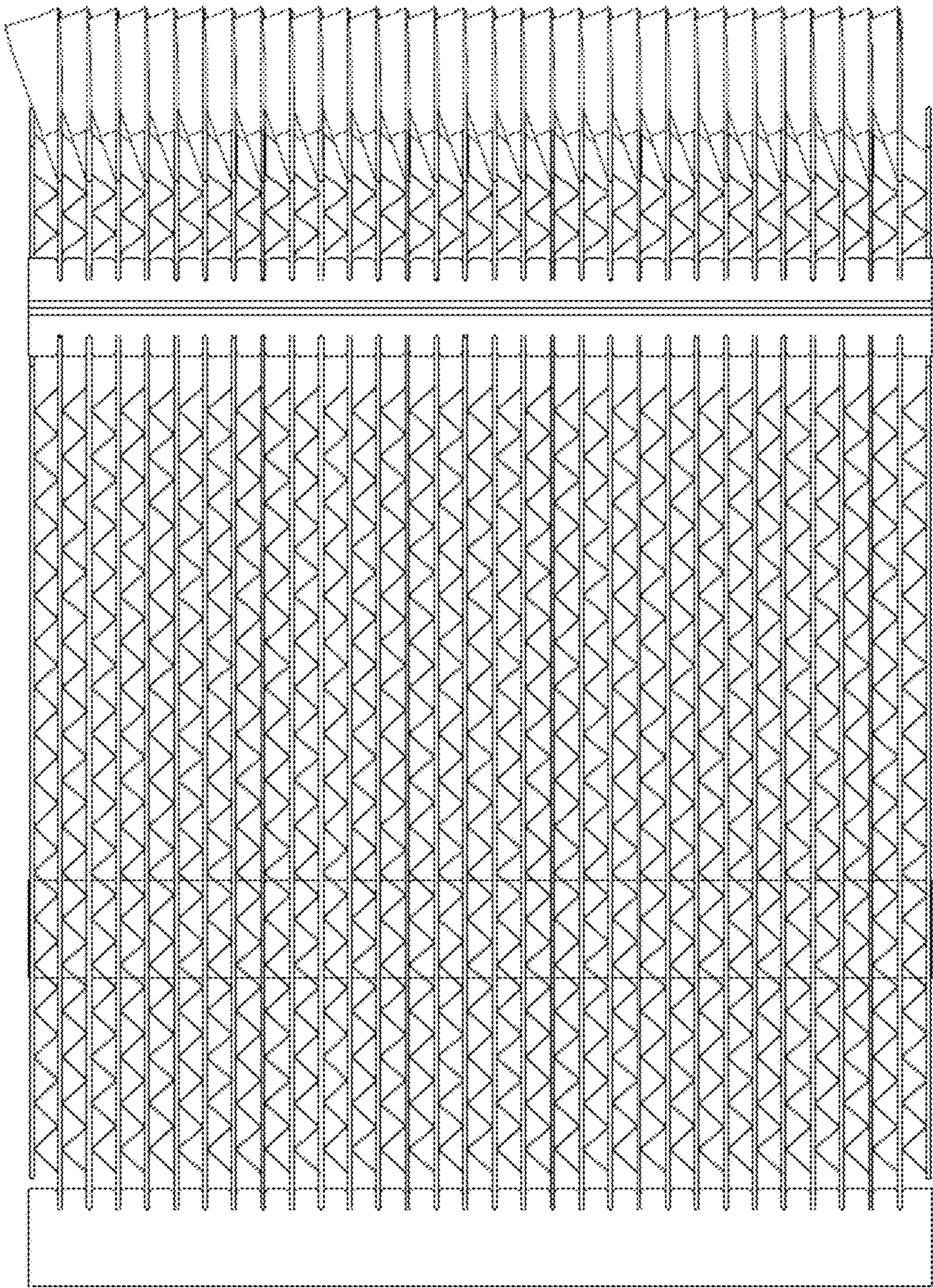


FIG. 4

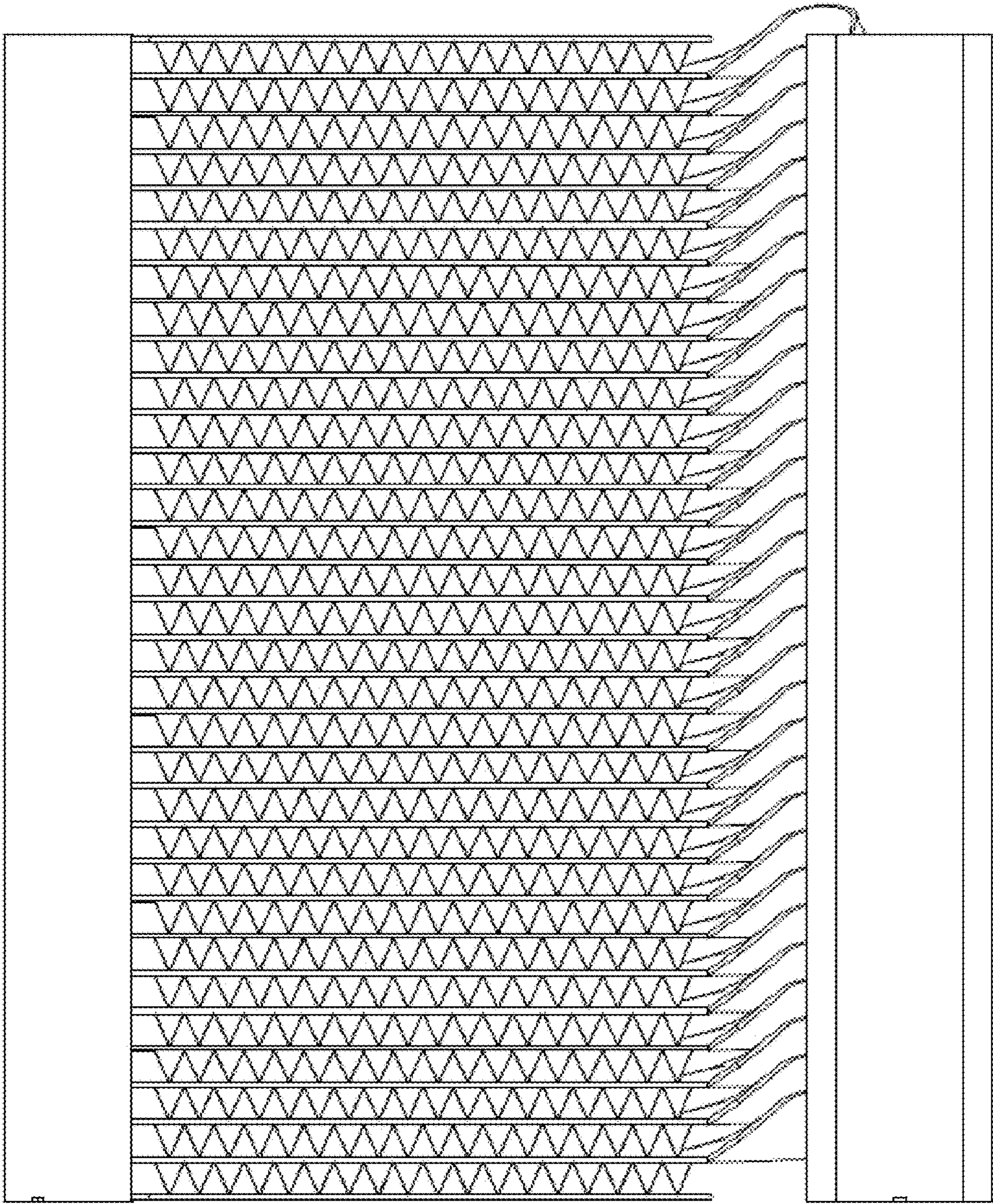


FIG. 5

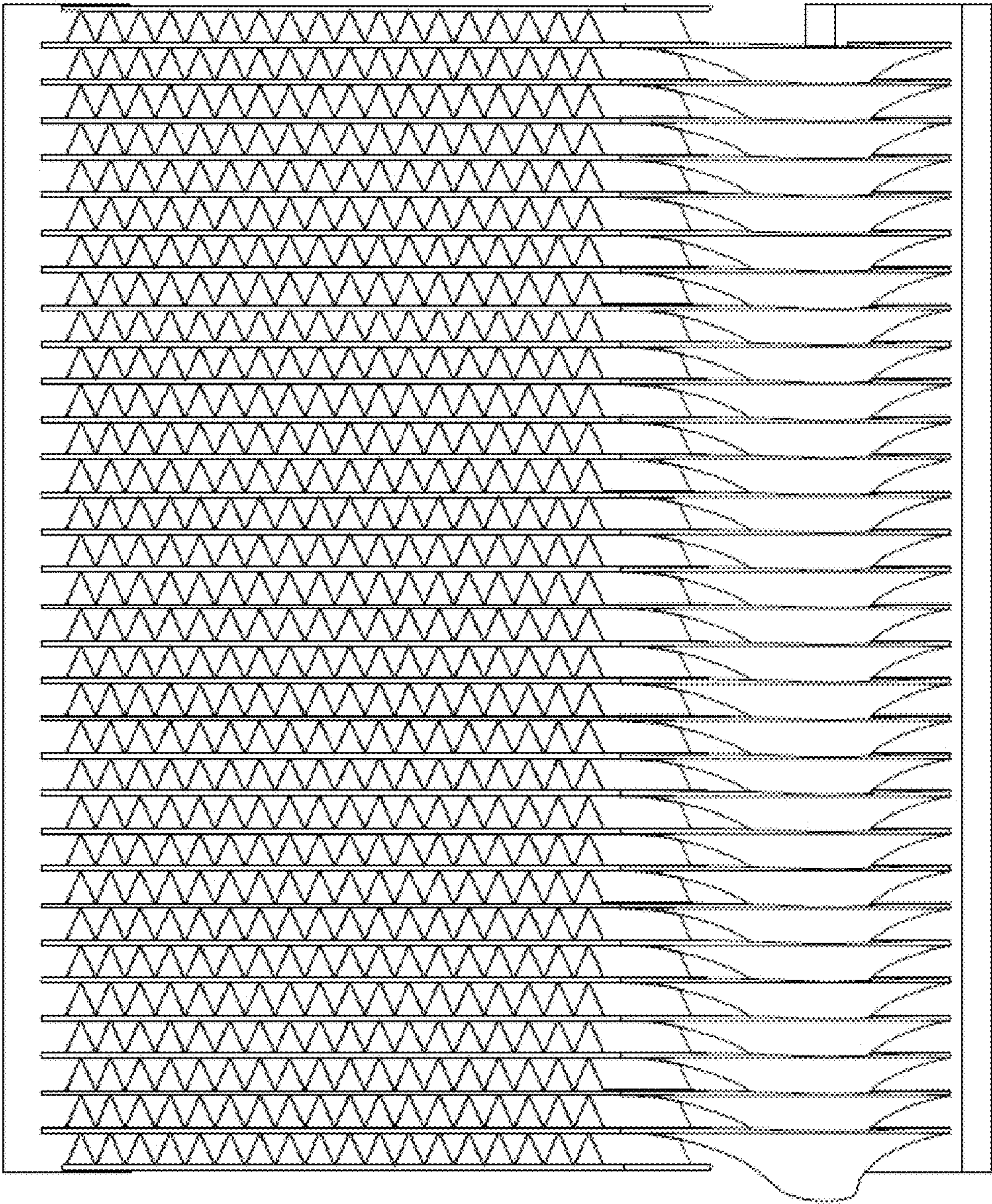


FIG. 6

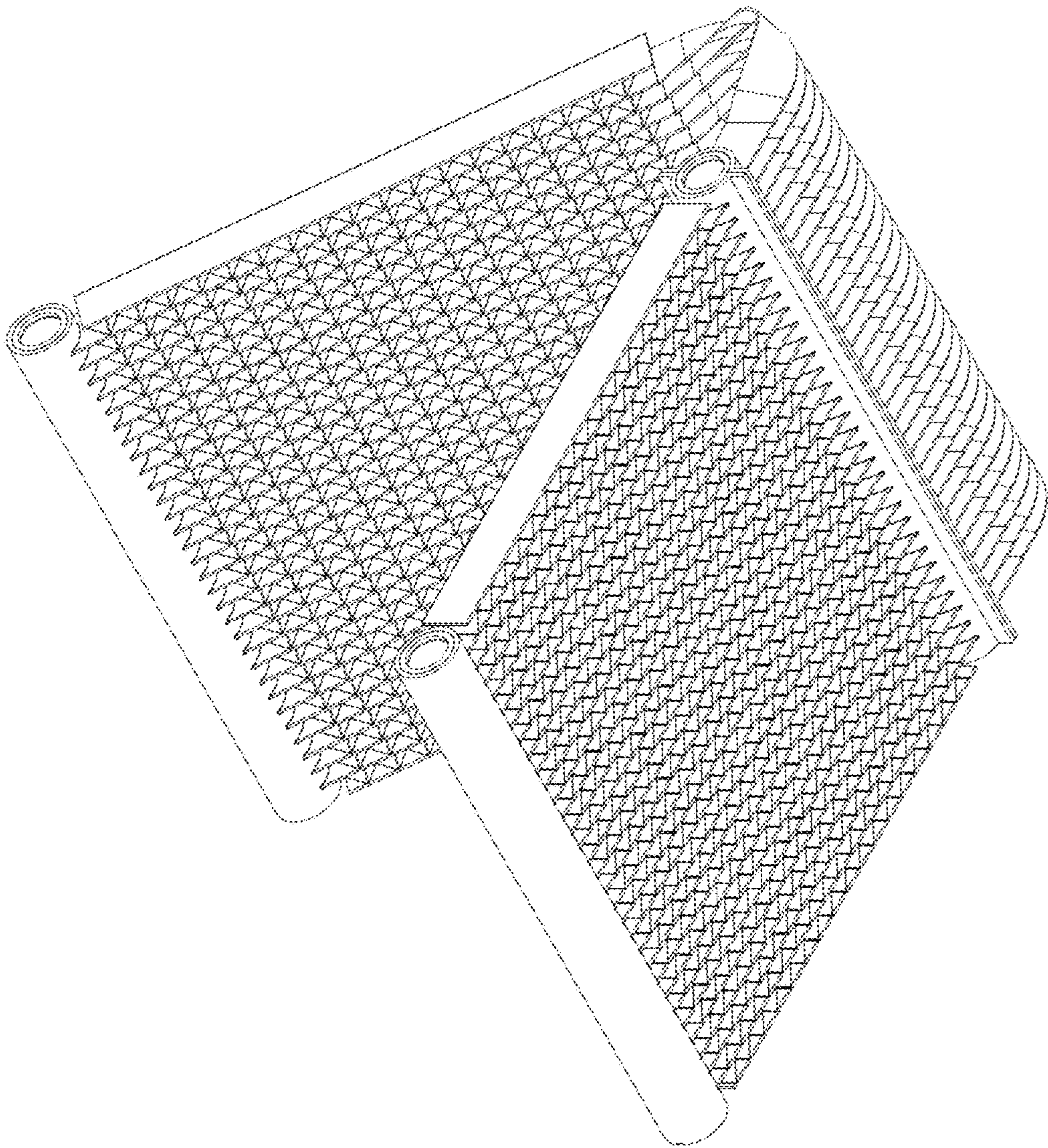


FIG. 7

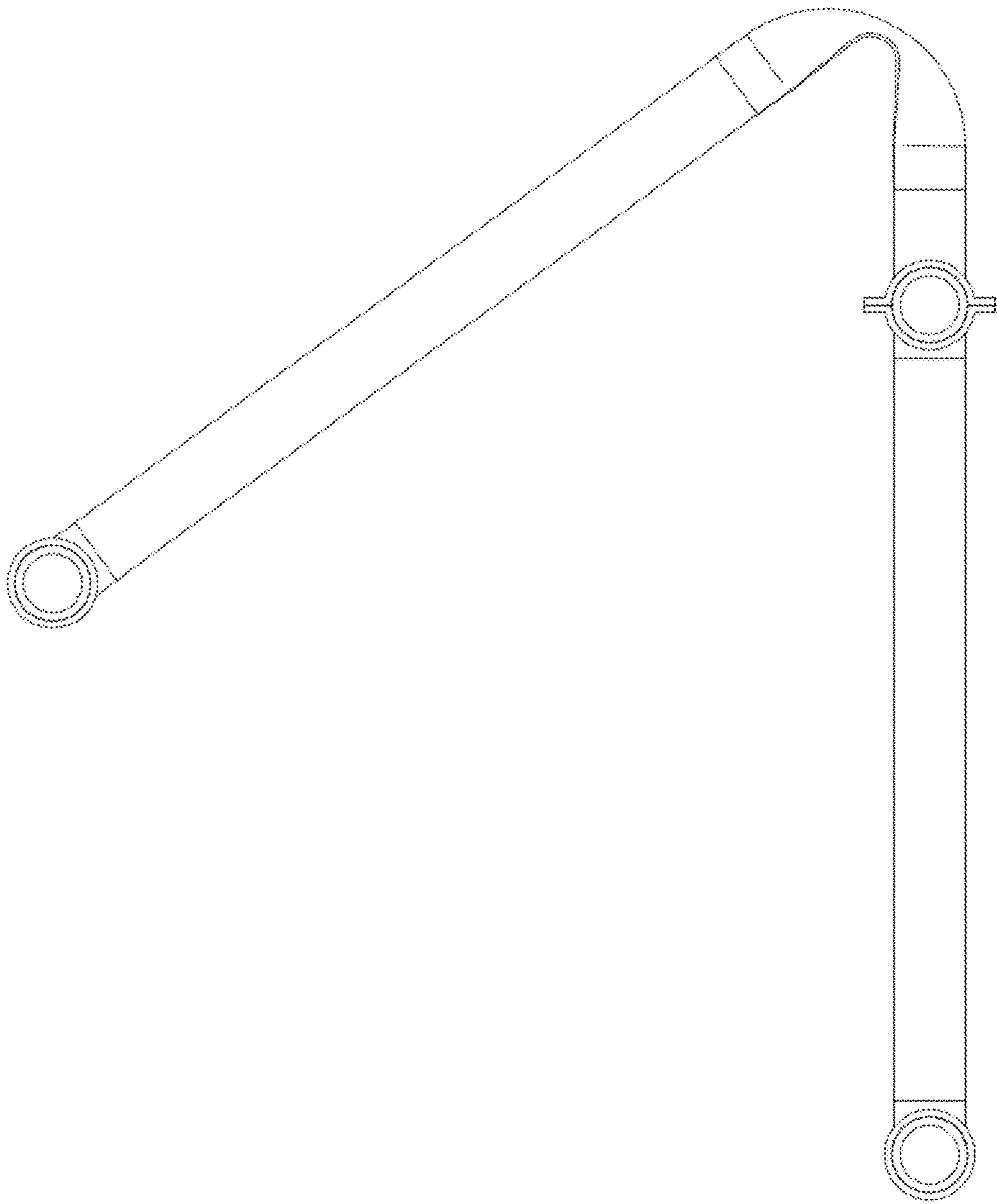


FIG. 8

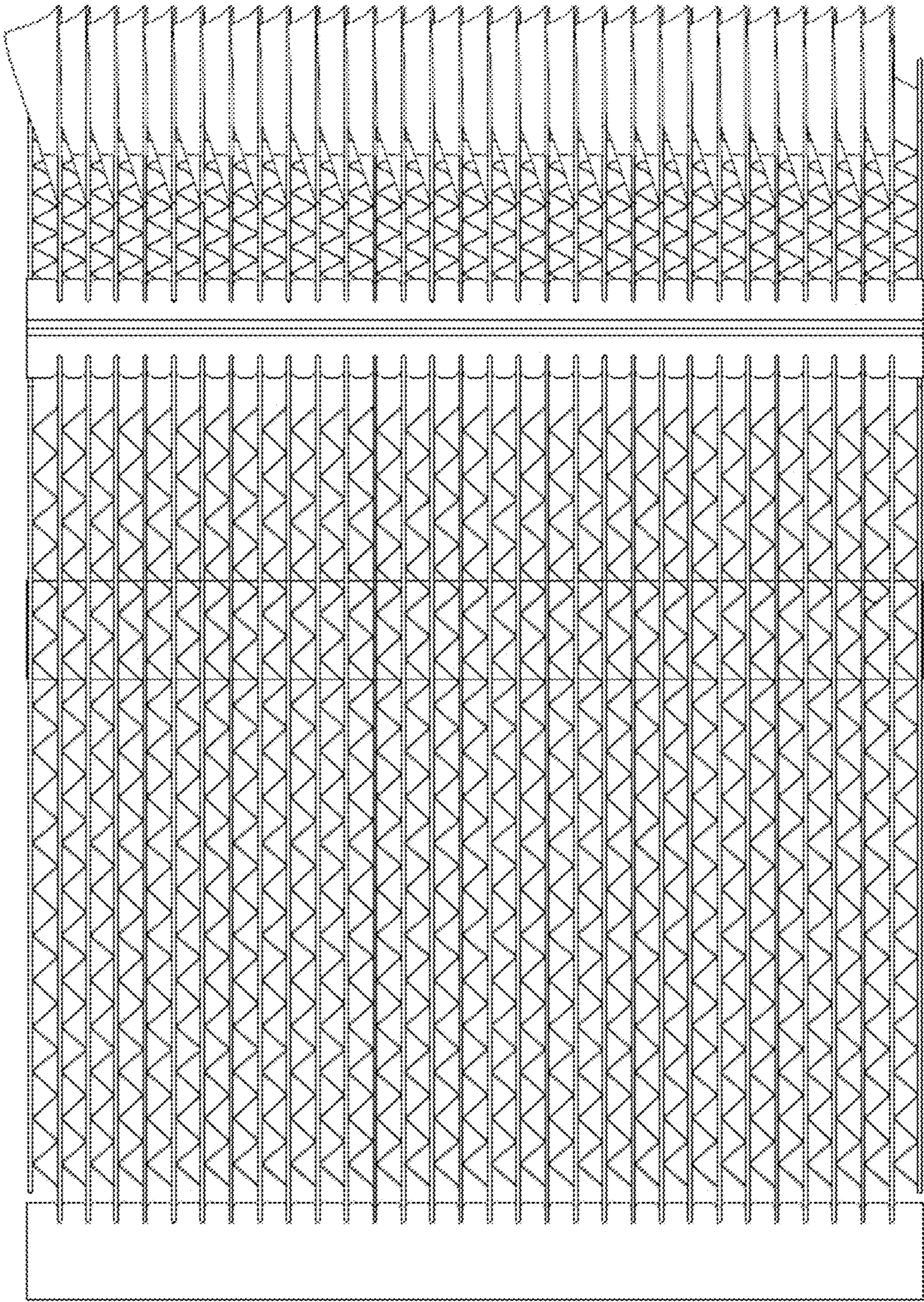


FIG. 9

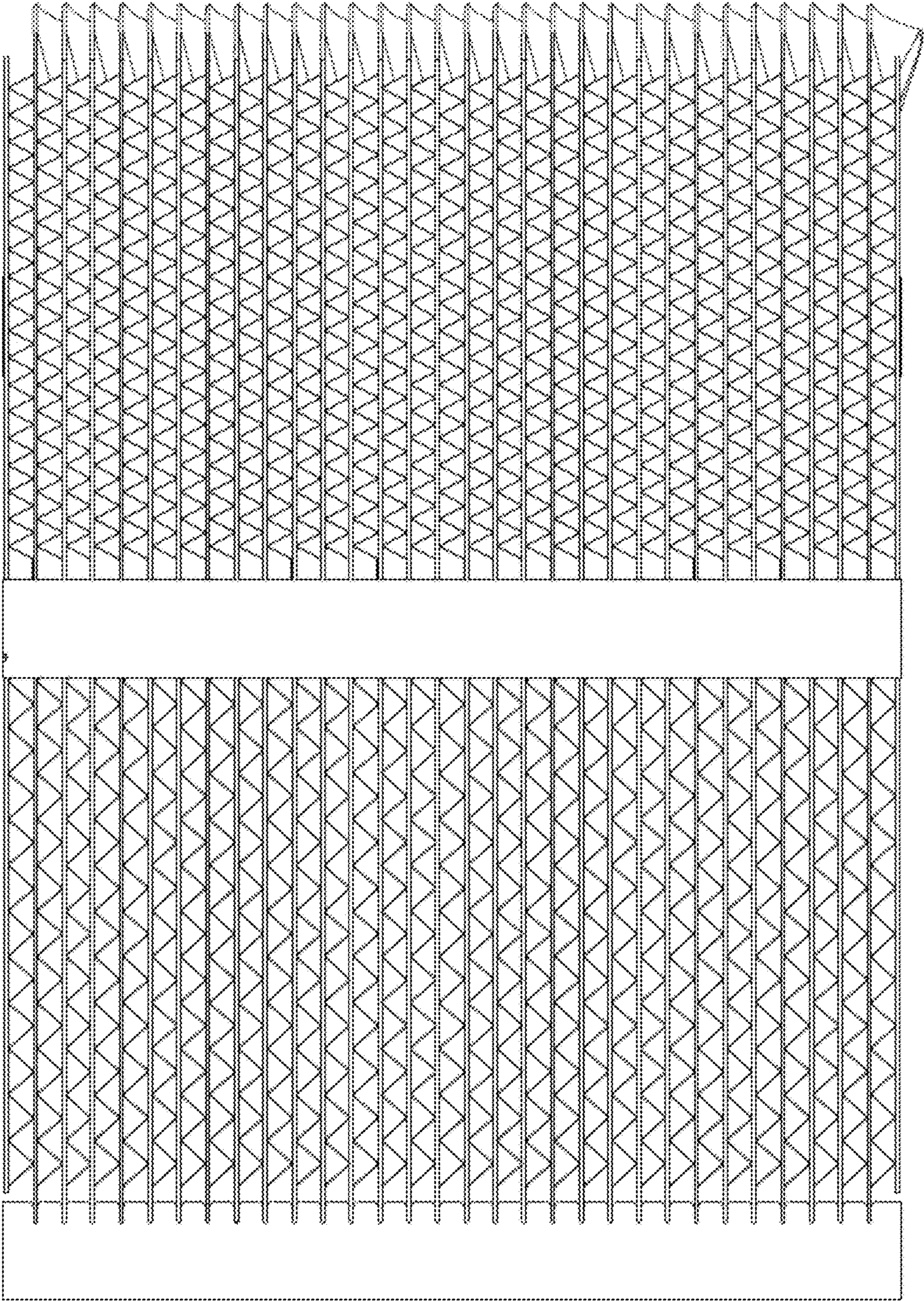


FIG. 10

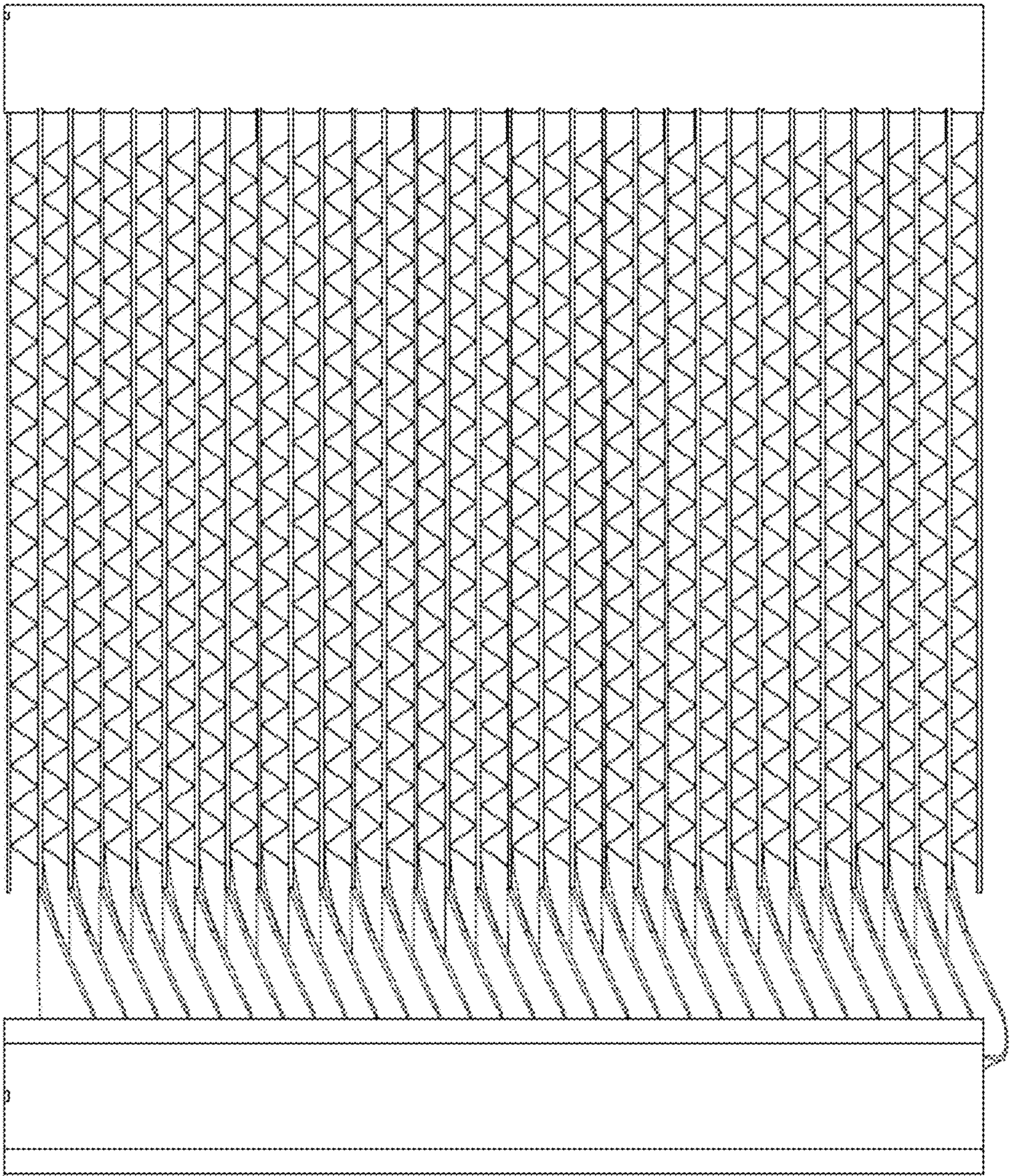


FIG. 11

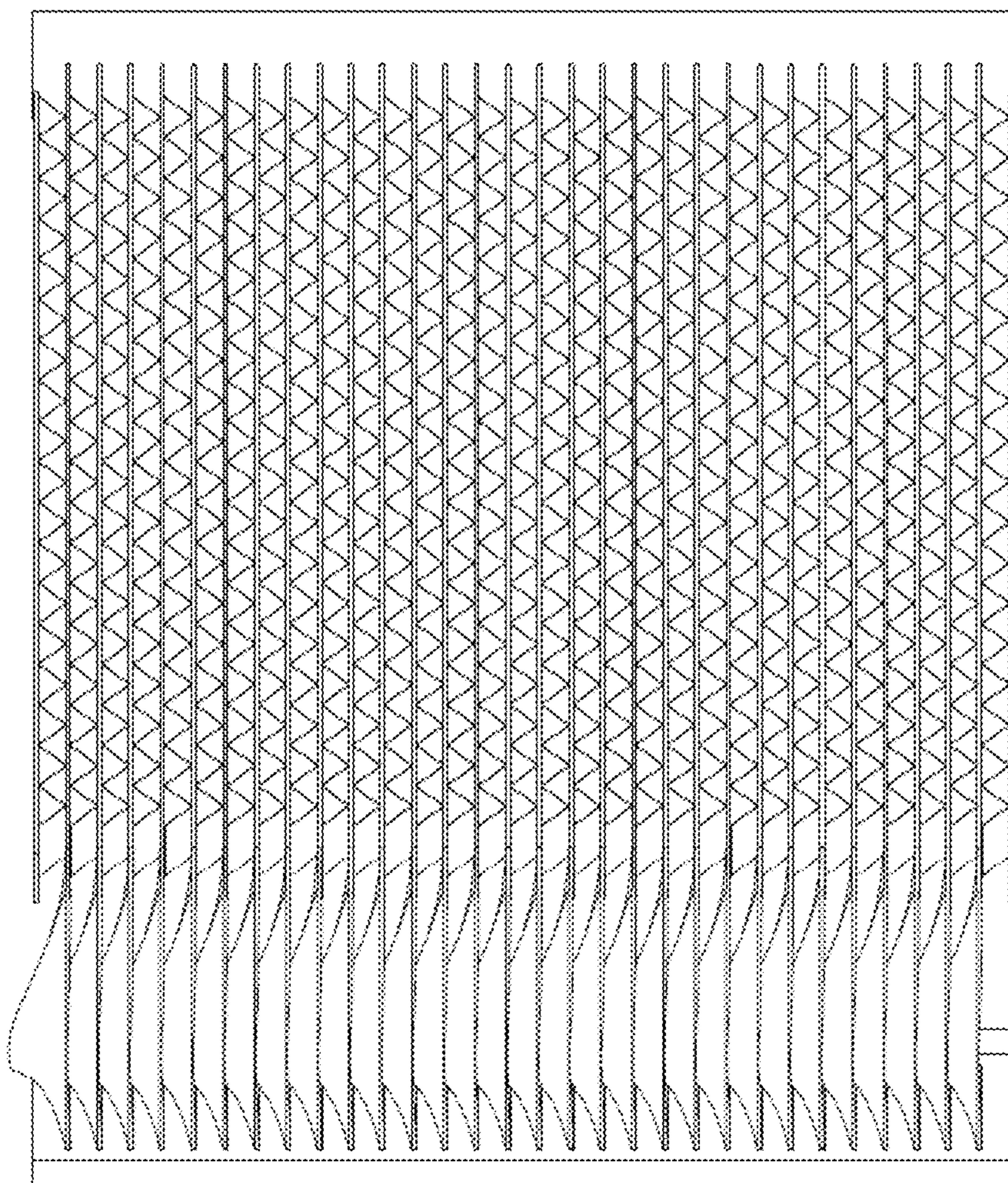


FIG. 12