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(12) **United States Design Patent** (10) **Patent No.:** **US D792,572 S**
Buzanowski et al. (45) **Date of Patent:** **** Jul. 18, 2017**

(54) **HIGH SURFACE AREA ASH REMOVAL SCREEN**

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(Continued)

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

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(21) Appl. No.: **29/591,155**

(57) **CLAIM**

The ornamental design for a high surface area ash removal screen, as shown and described.

(22) Filed: **Jan. 17, 2017**

DESCRIPTION

Related U.S. Application Data

(62) Division of application No. 29/452,332, filed on Apr. 15, 2013, now Pat. No. Des. 778,423.

Exemplary applications of such high surface area ash removal screen are further described in co-pending and commonly-assigned U.S. patent application Ser. No. 13/633,717 entitled "Apparatus and Methods for Large Particle Ash Separation From Flue Gas Using Screens Having Semi-Elliptical Cylinder Surfaces," filed Oct. 2, 2012, the disclosure of which is incorporated herein by reference.

(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/386**

(58) **Field of Classification Search**
USPC D23/365, 209, 363, 358, 386, 354, 341,
D23/364; 55/385.3, 502, 497, 506, 505,
55/521, 495, 422, 493, DIG. 30;
210/435, 130, 136, 248, 339, 448, 452,
210/497.1; D15/5

CPC B01D 46/103; B01D 39/10; B01D
2258/0283; B01D 2275/20; B01D
2275/206; F23J 3/04; Y10T 29/4973

See application file for complete search history.

FIG. 1 is a front perspective view of a high surface area ash removal screen showing our new design; FIG. 2 is a front elevation view thereof; FIG. 3 is a rear elevation view thereof; FIG. 4 is a right side elevation view thereof; FIG. 5 is a left side elevation view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof.

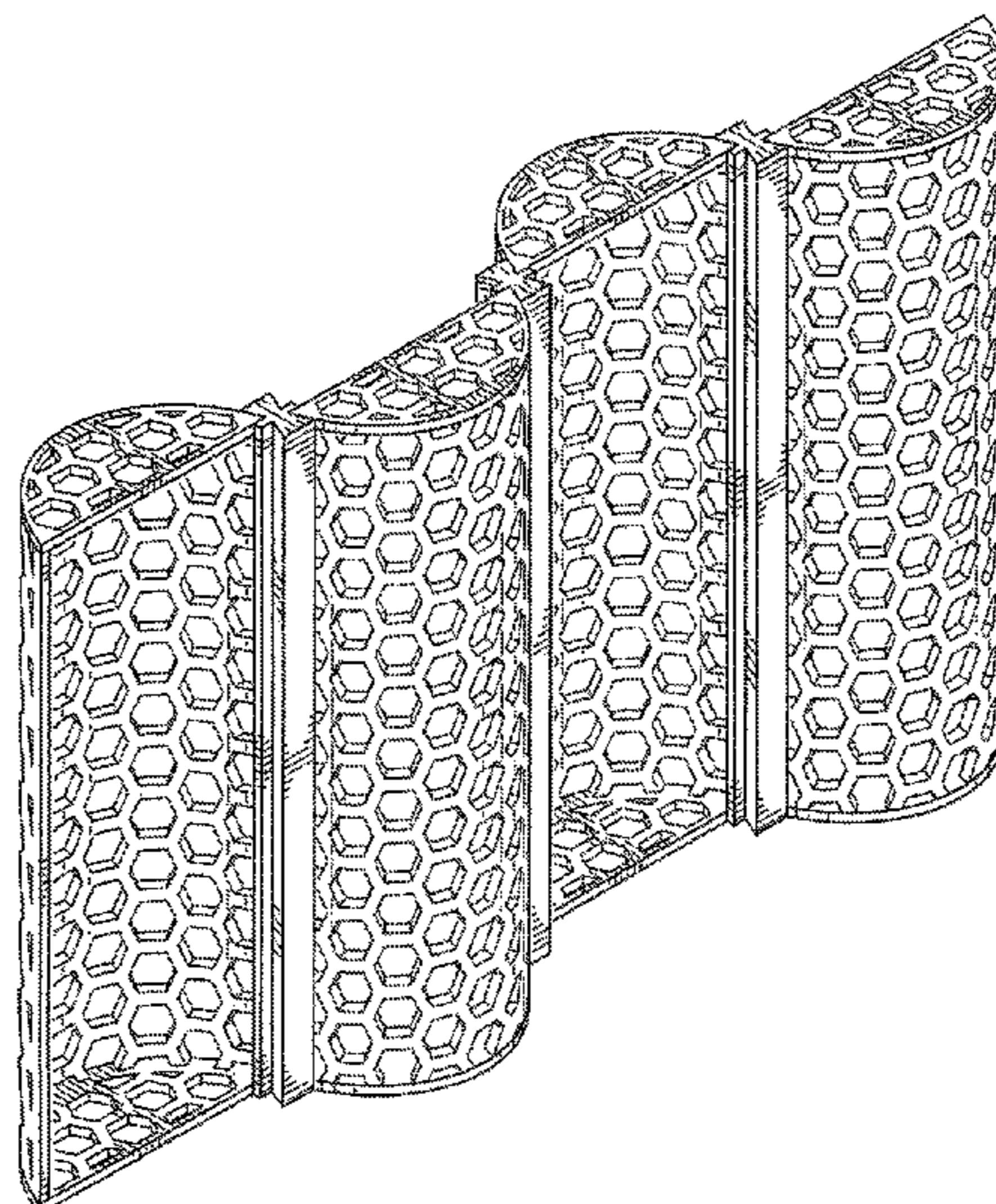
FIGS. 1-7 show a high surface area ash removal screen that comprises four semi-elliptical cylinder surfaces having hexagonal holes perforating the surfaces. In FIGS. 1-7, the semi-elliptical cylinder surfaces are joined by structural support members.

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1 Claim, 5 Drawing Sheets



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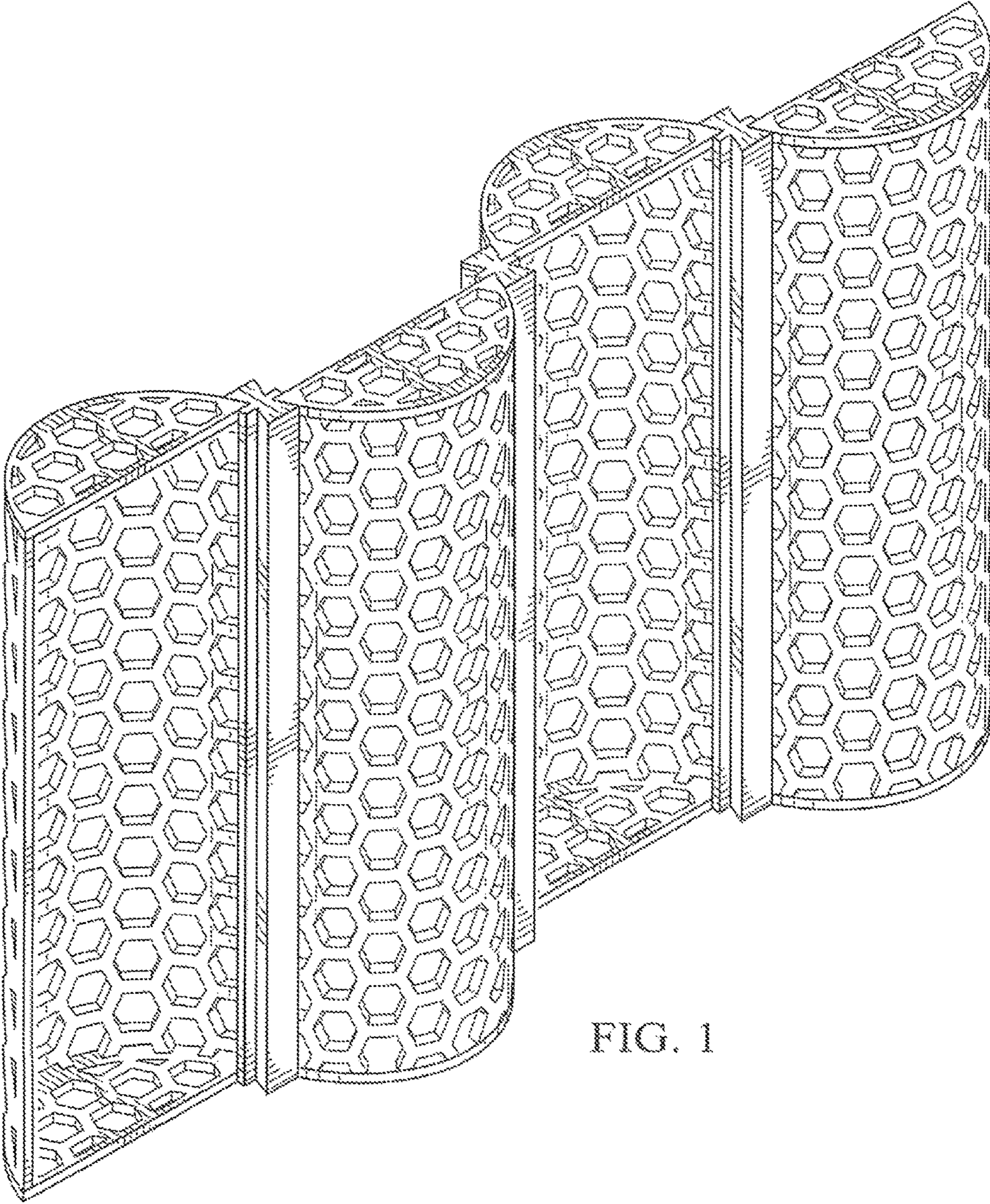


FIG. 1

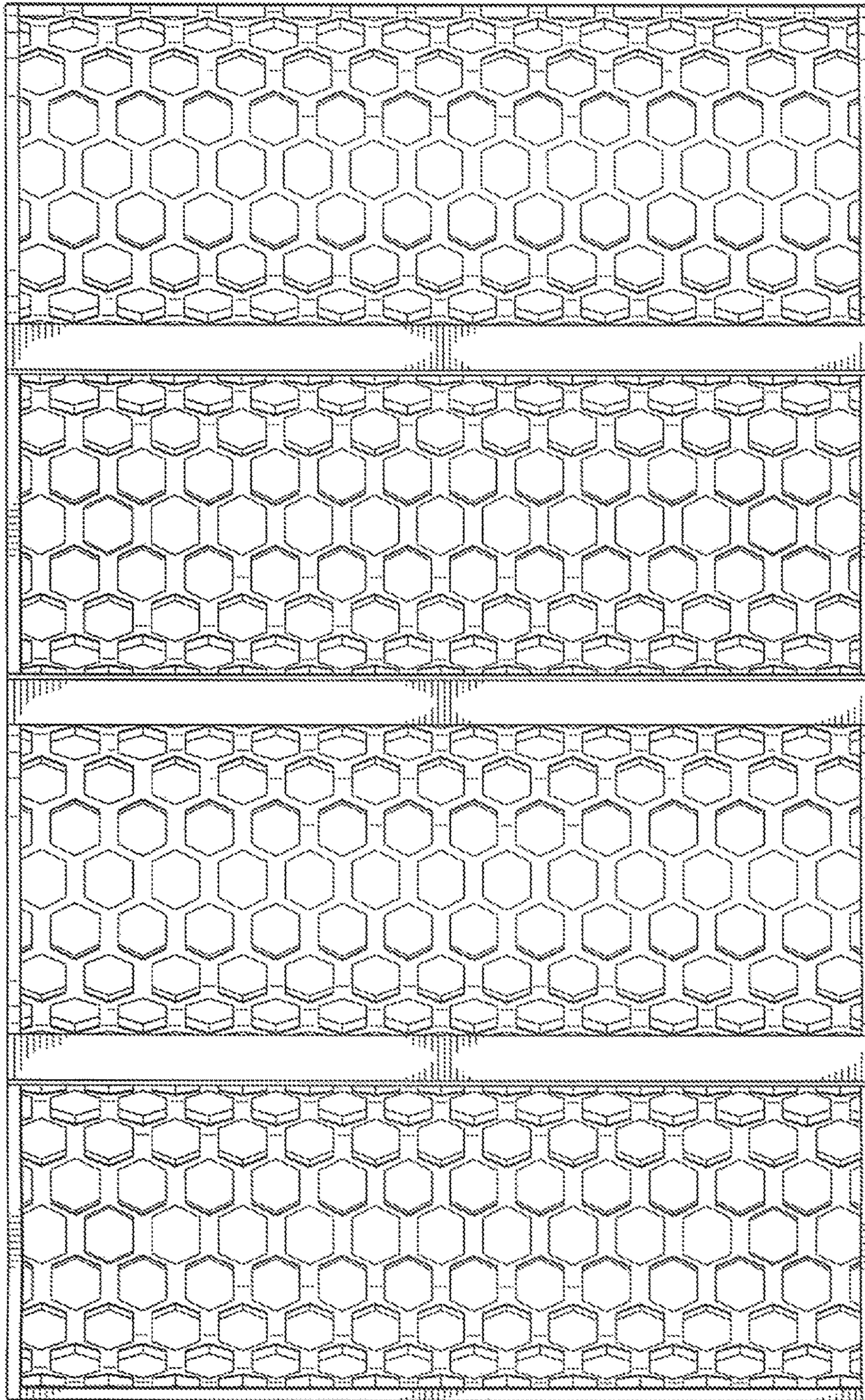


FIG. 2

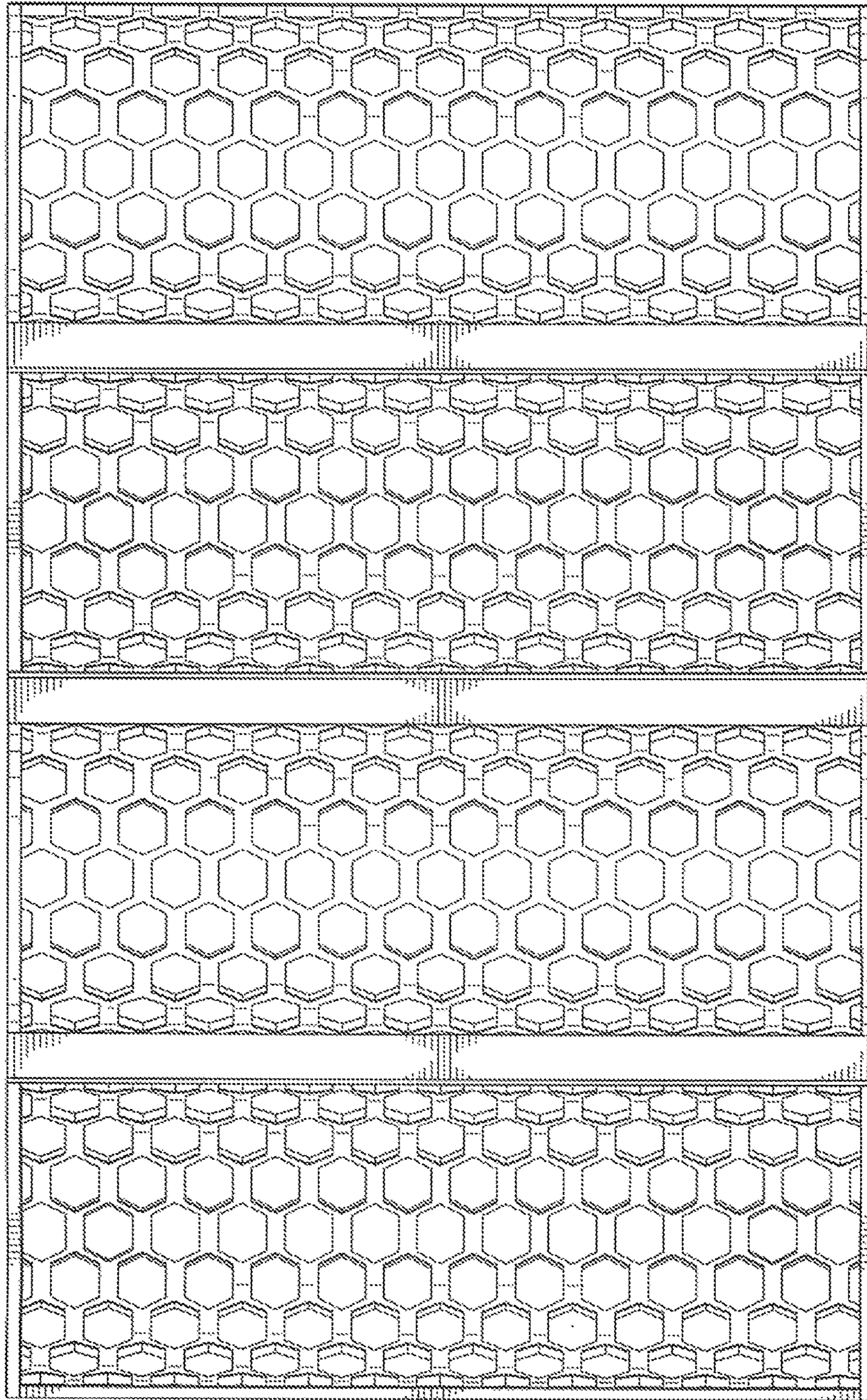


FIG. 3

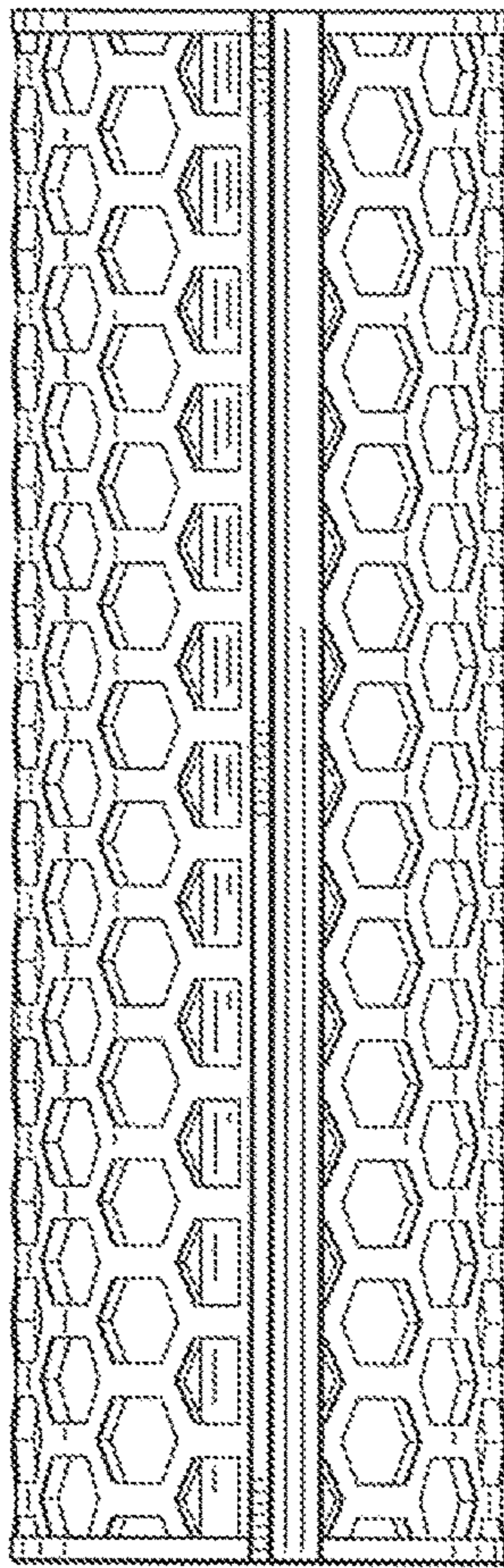


FIG. 4

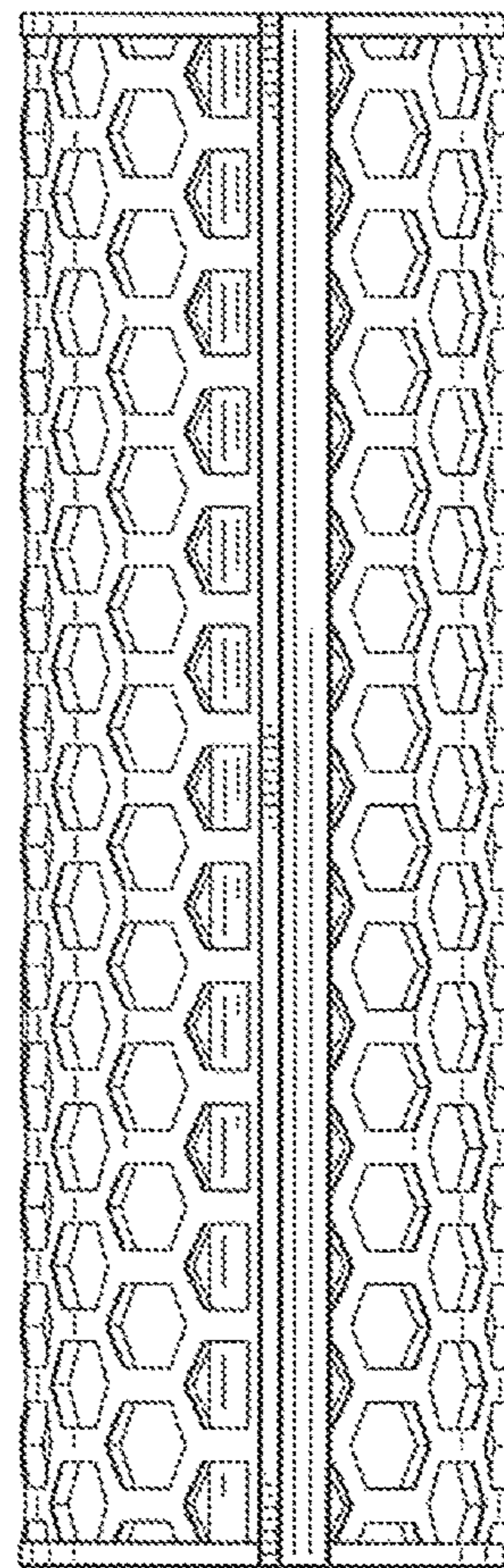


FIG. 5

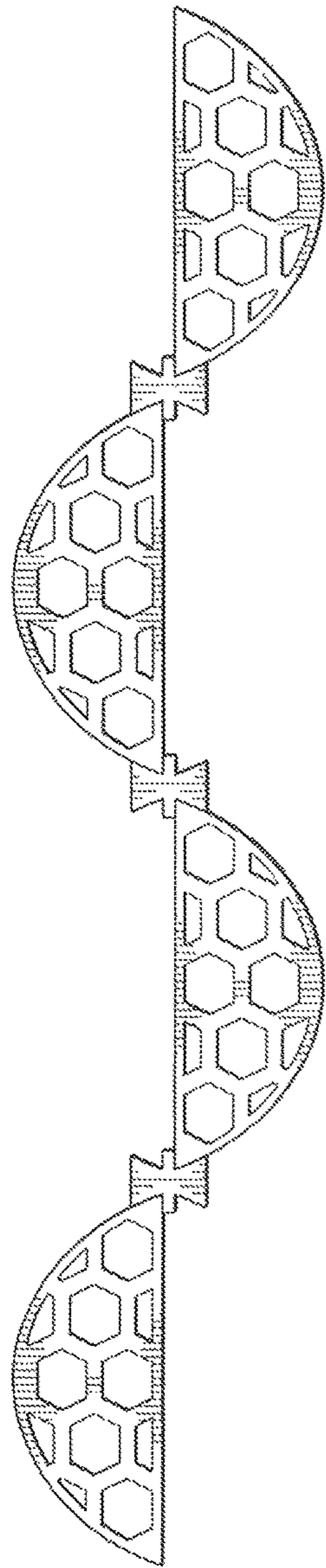


FIG. 6

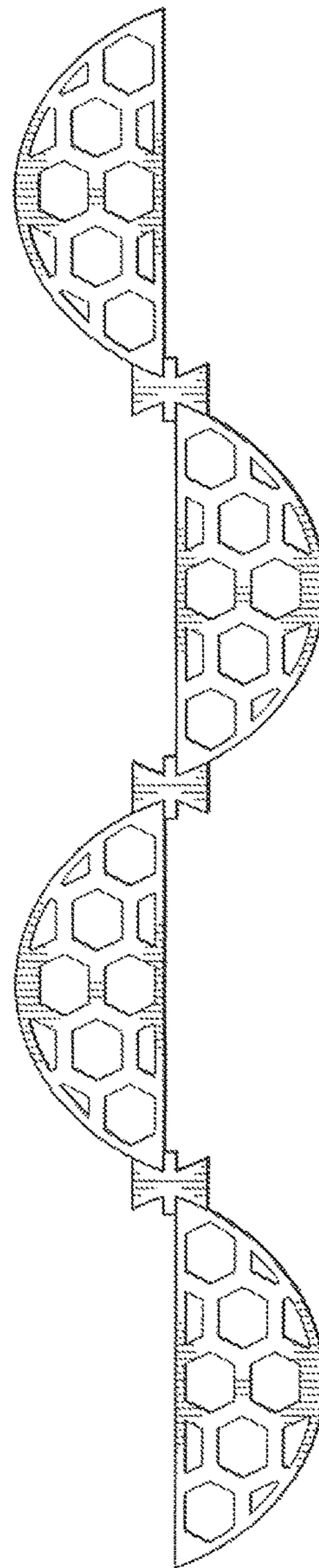


FIG. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D792,572 S
APPLICATION NO. : 29/591155
DATED : July 18, 2017
INVENTOR(S) : Mark A. Buzanowski et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Under Description, insert the following sentence after the portion of the text reading “incorporated herein by reference”:

--The present application is a divisional of U.S. patent application Ser. No. 29/452,332 entitled “High Surface Ash Removal Screen,” filed April 15, 2013, and is related to U.S. patent application Ser. No. 29/591,151 entitled “High Surface Area Ash Removal Screen,” filed Jan. 17, 2017, and U.S. patent application Ser. No. 29/591,159 entitled “High Surface Area Ash Removal Screen,” filed Jan. 17, 2017, the disclosures of which are incorporated herein by reference.--

Signed and Sealed this
Nineteenth Day of September, 2017



Joseph Matal
*Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office*