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(12) United States Design Patent

Buzanowski et al.

(10) Patent No.: US D792,572 S
(45) Date of Patent: ** Jul. 18, 2017

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

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(73) Assignee: **Integrated Global Services, Inc.**, Midlothian, VA (US)

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

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

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

Related U.S. Application Data

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

(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.

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Assistant Examiner — Nathan Johnston
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(57) **CLAIM**

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

DESCRIPTION

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.

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;

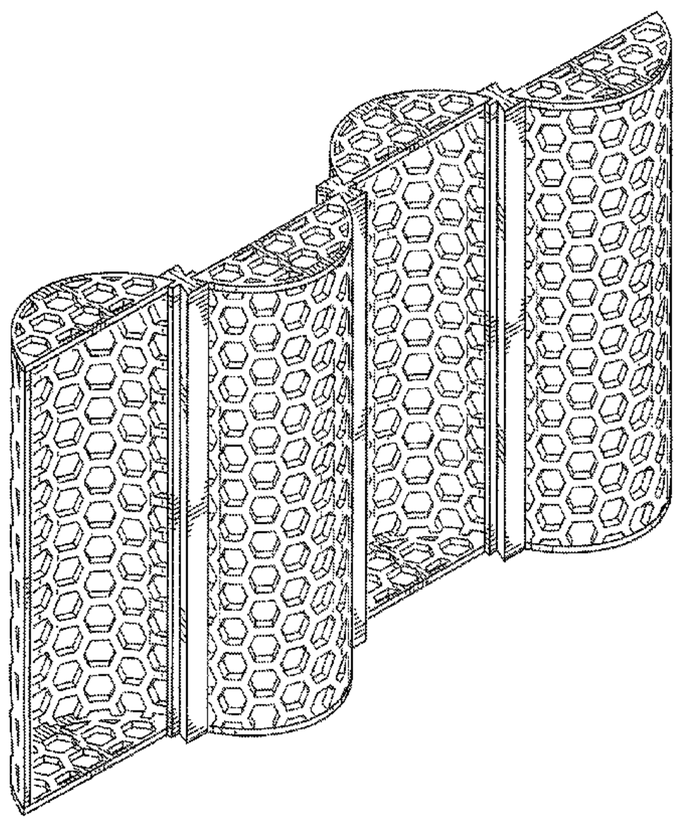
FIG. **5** is a left side elevation view thereof;

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.

1 Claim, 5 Drawing Sheets



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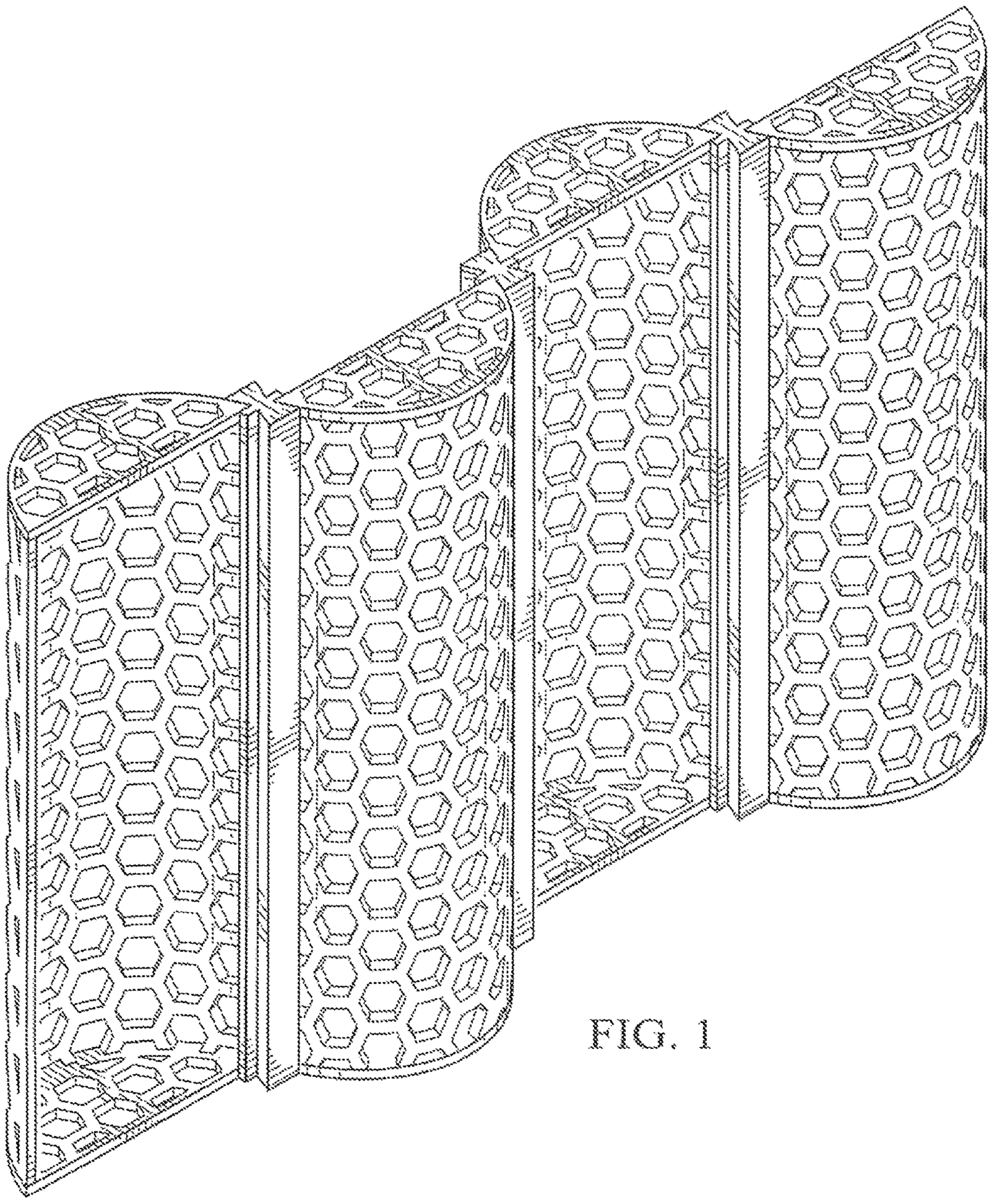

FIG. 1

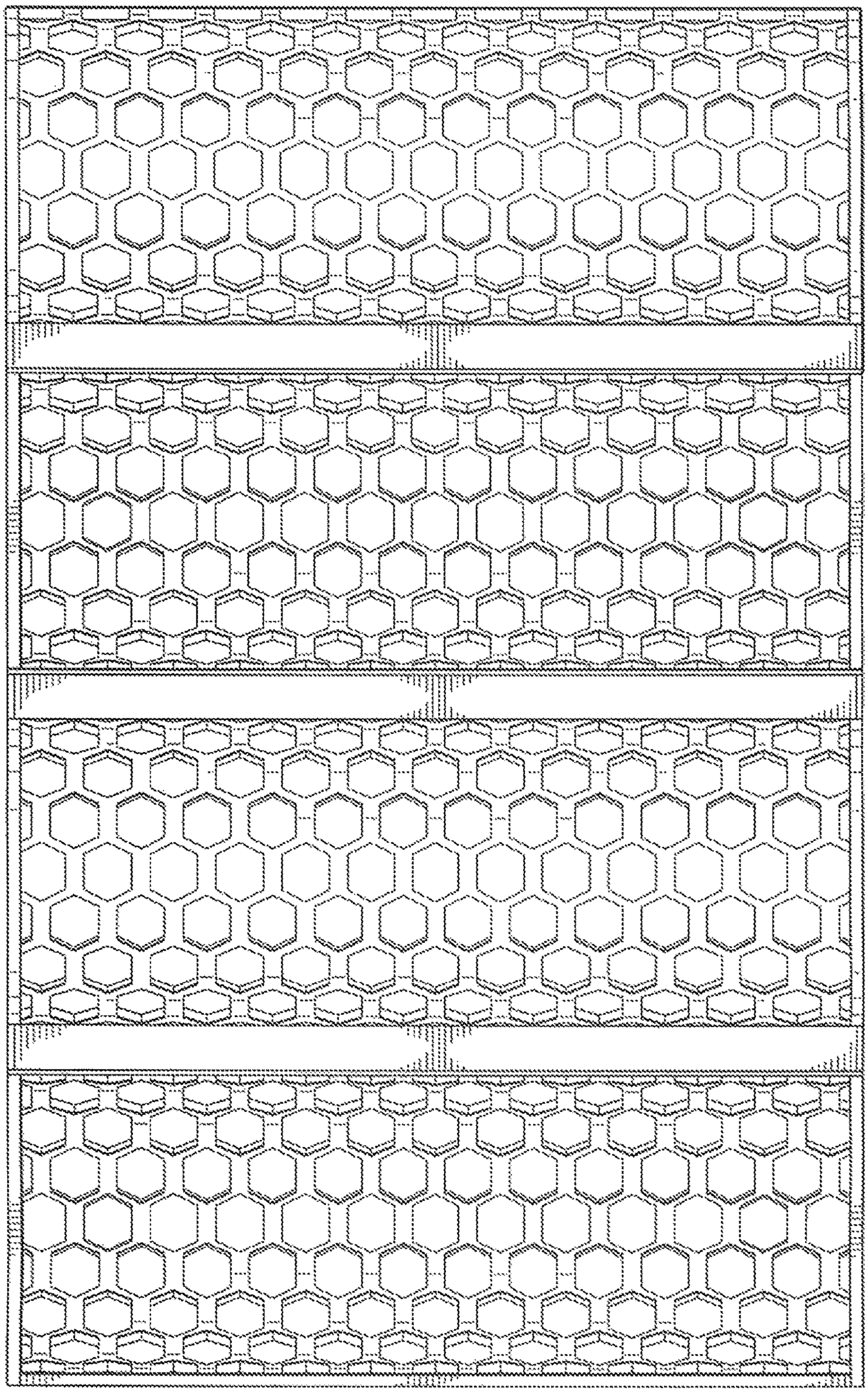

FIG. 2

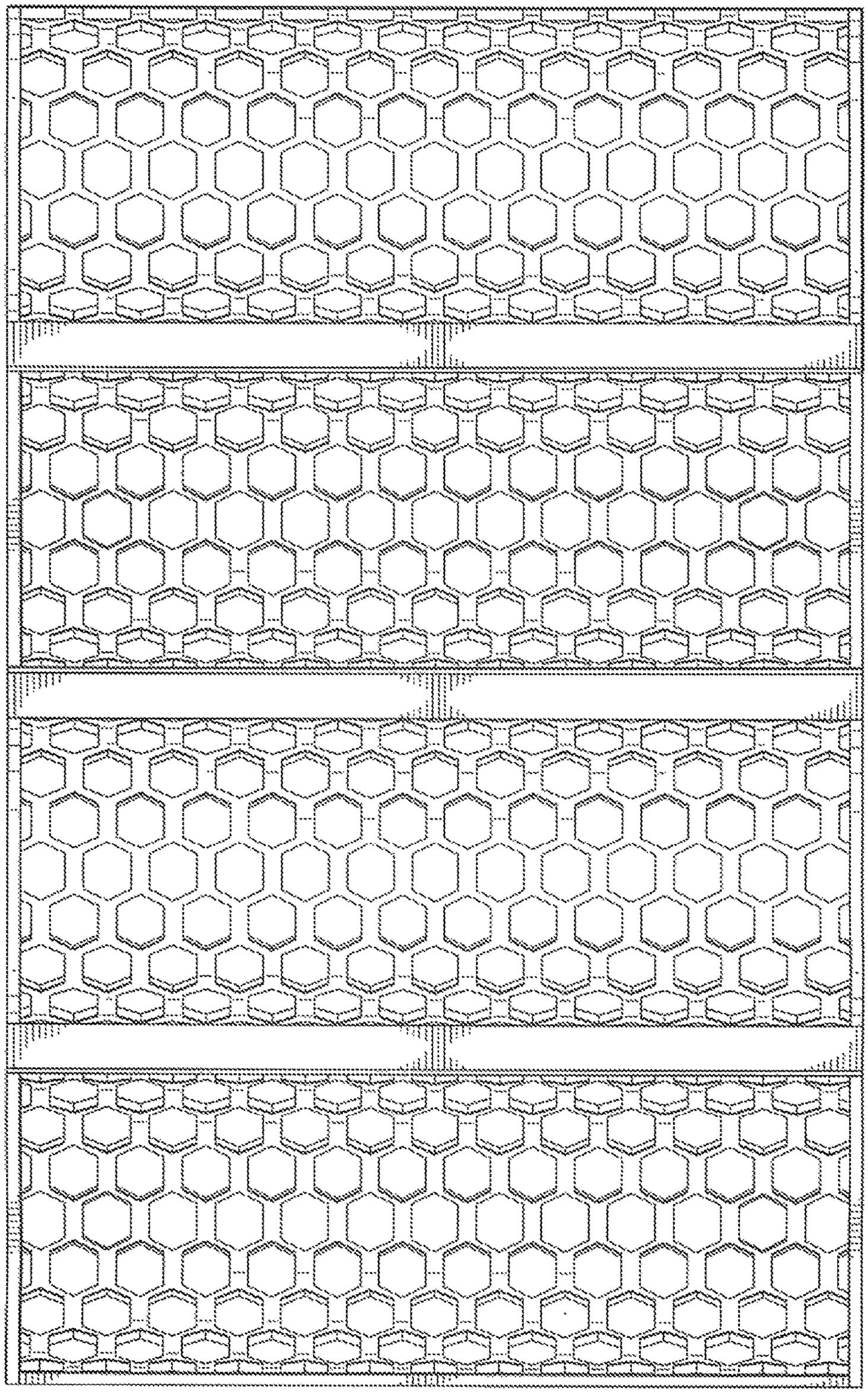

FIG. 3

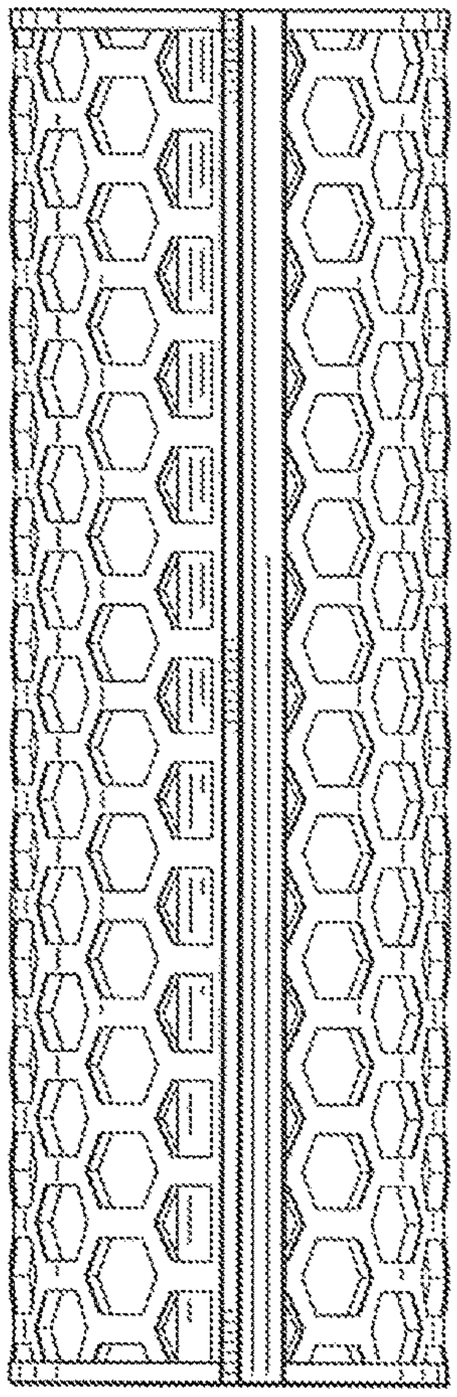

FIG. 4

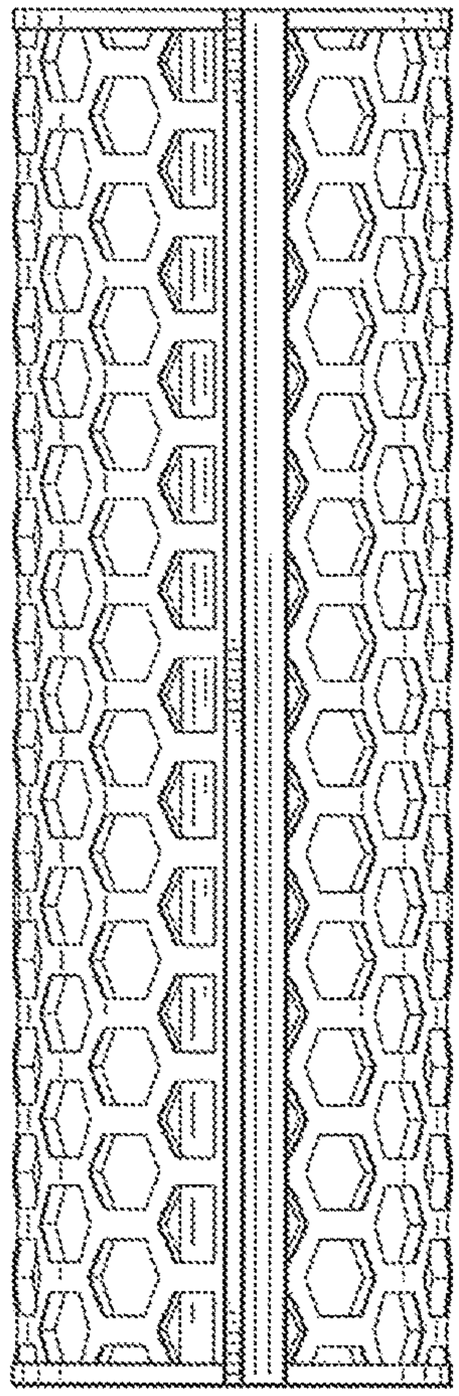

FIG. 5

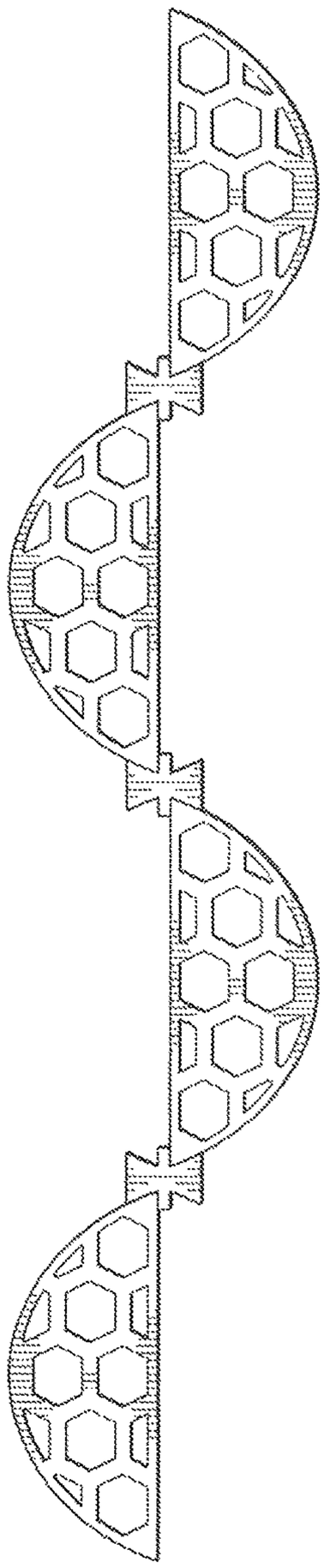

FIG. 6

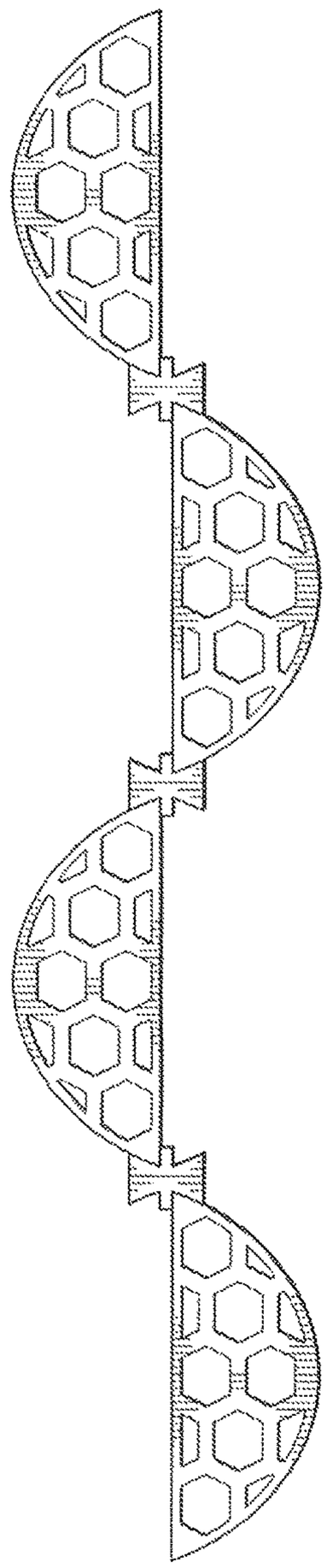

FIG. 7

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.

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

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