

US00D793545S

(12) **United States Design Patent** (10) **Patent No.:** **US D793,545 S**  
**Buzanowski et al.** (45) **Date of Patent:** **\*\* Aug. 1, 2017**

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

FOREIGN PATENT DOCUMENTS

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(57) **CLAIM**

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

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

(21) Appl. No.: **29/591,159**

(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.

(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.

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. The present application is a divisional of U.S. patent application Ser. No. 29/452,332 entitled “High Surface Ash Removal Screen,” filed Apr. 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. 29/591,155 entitled “High Surface Area Ash Removal Screen,” filed Jan. 17, 2017, the disclosures of which are 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.

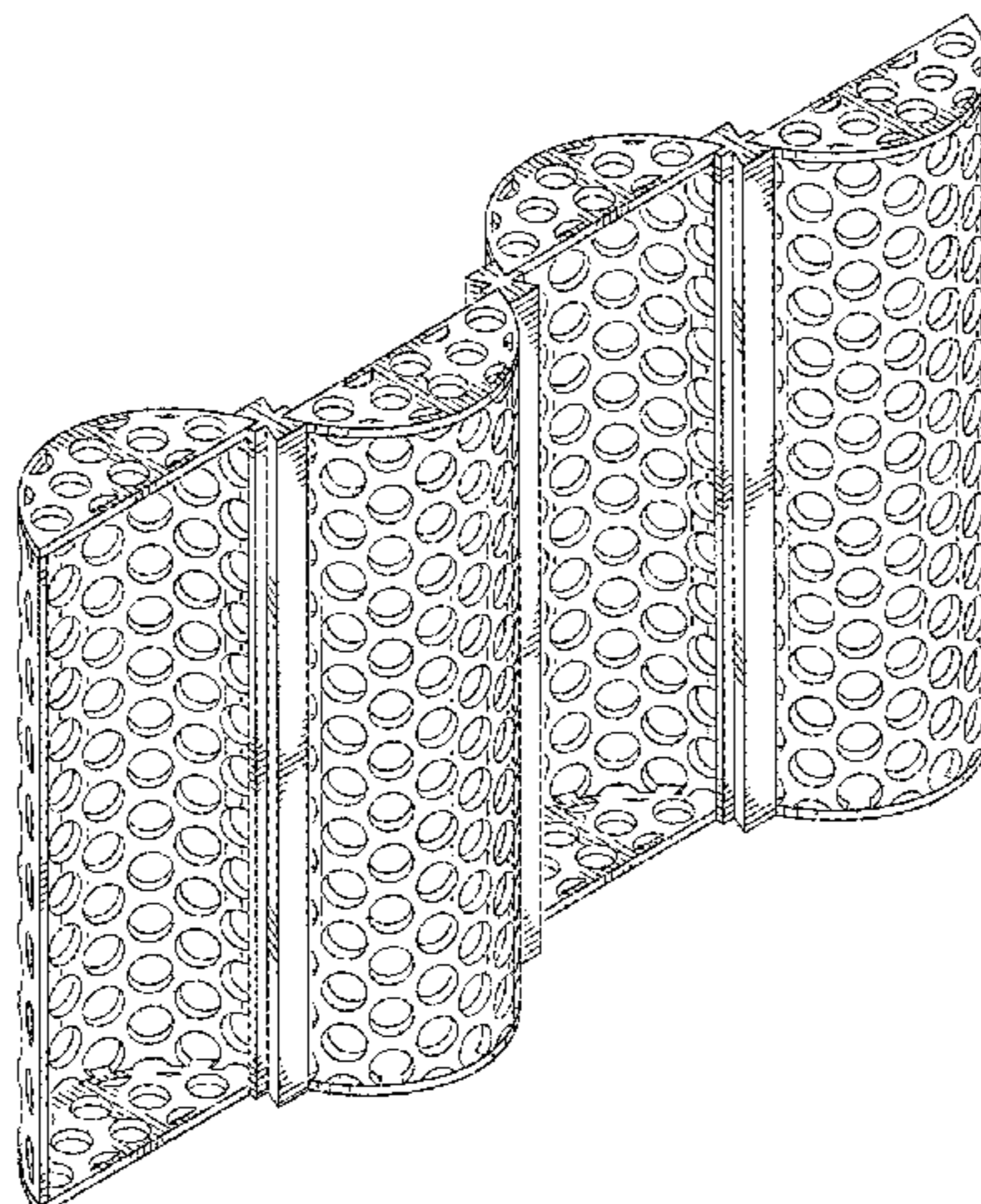
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**1 Claim, 5 Drawing Sheets**



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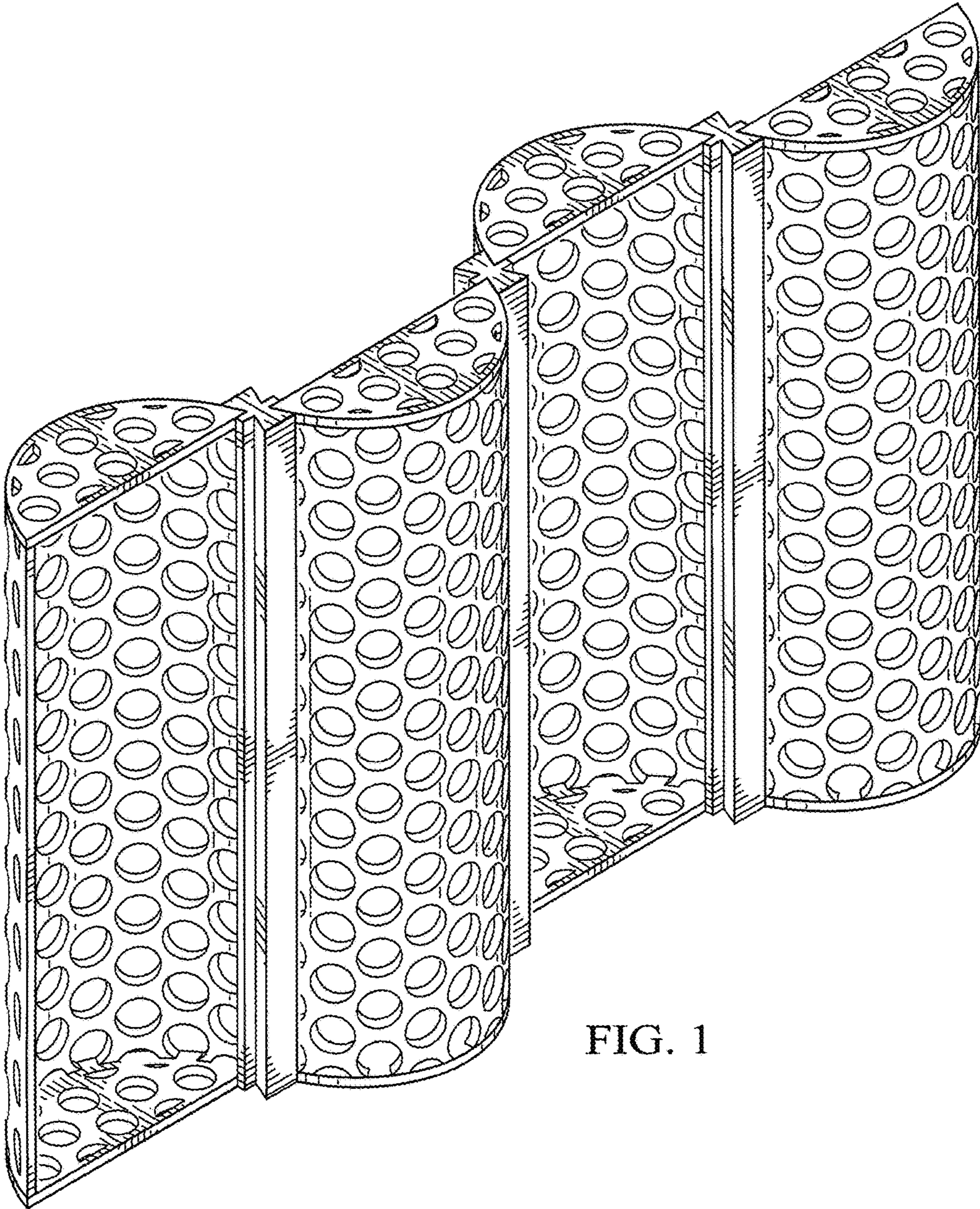


FIG. 1

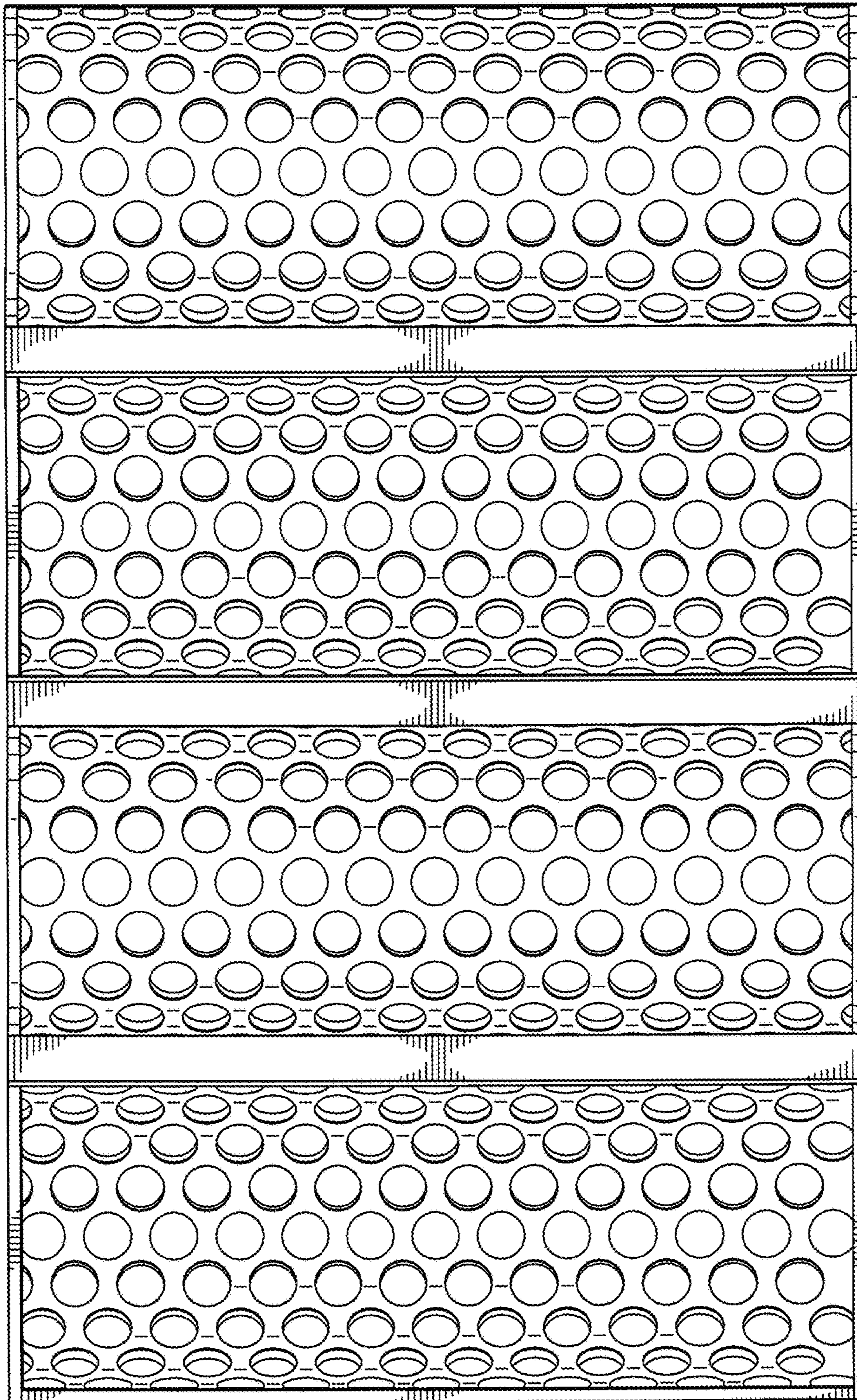


FIG. 2

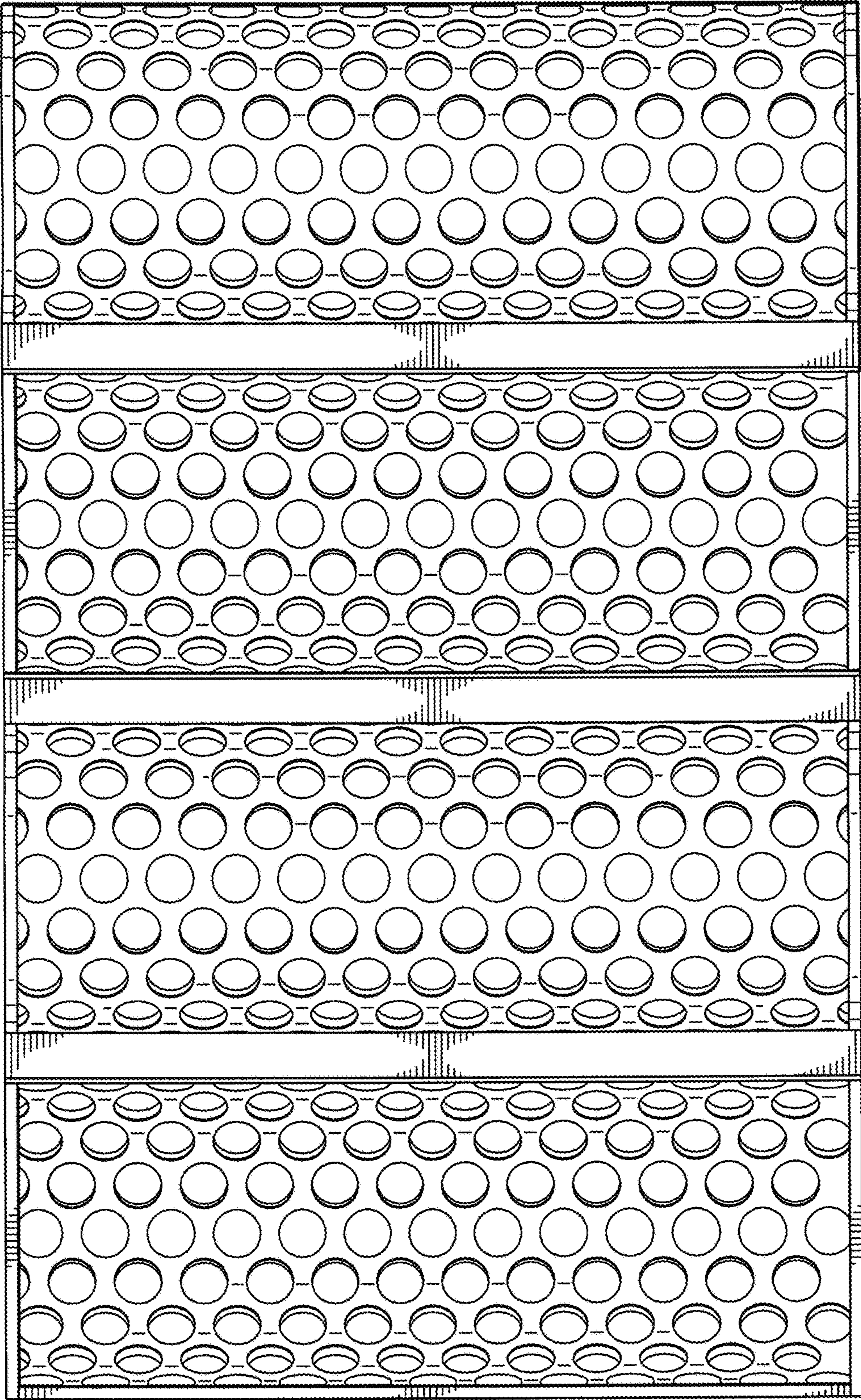


FIG. 3

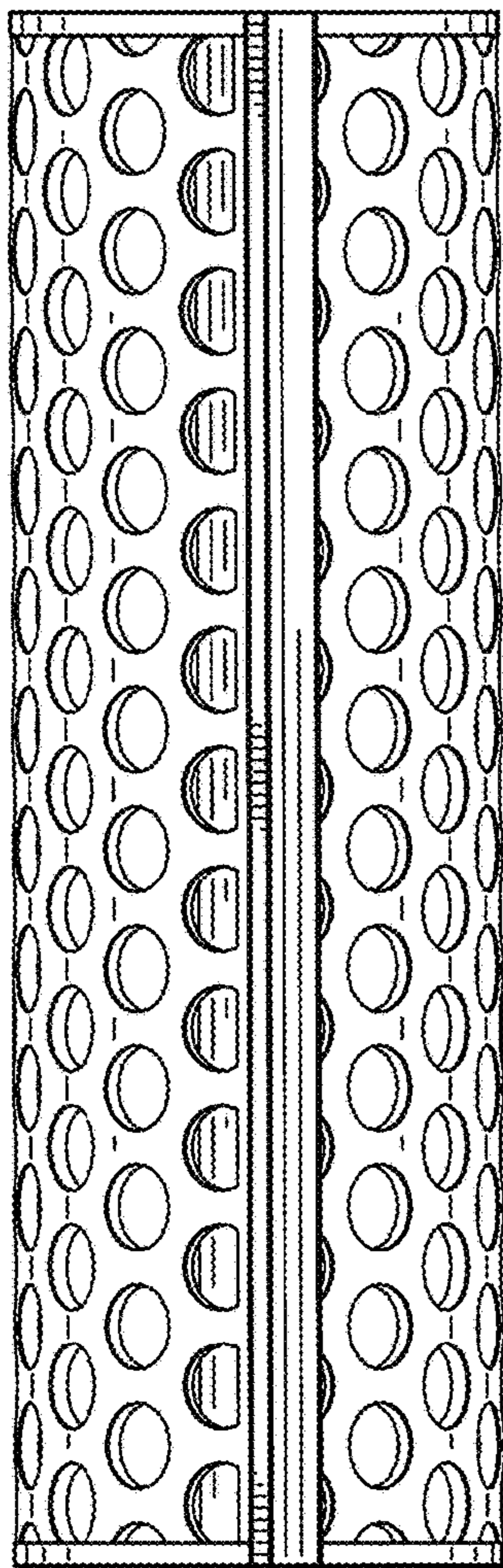


FIG. 4

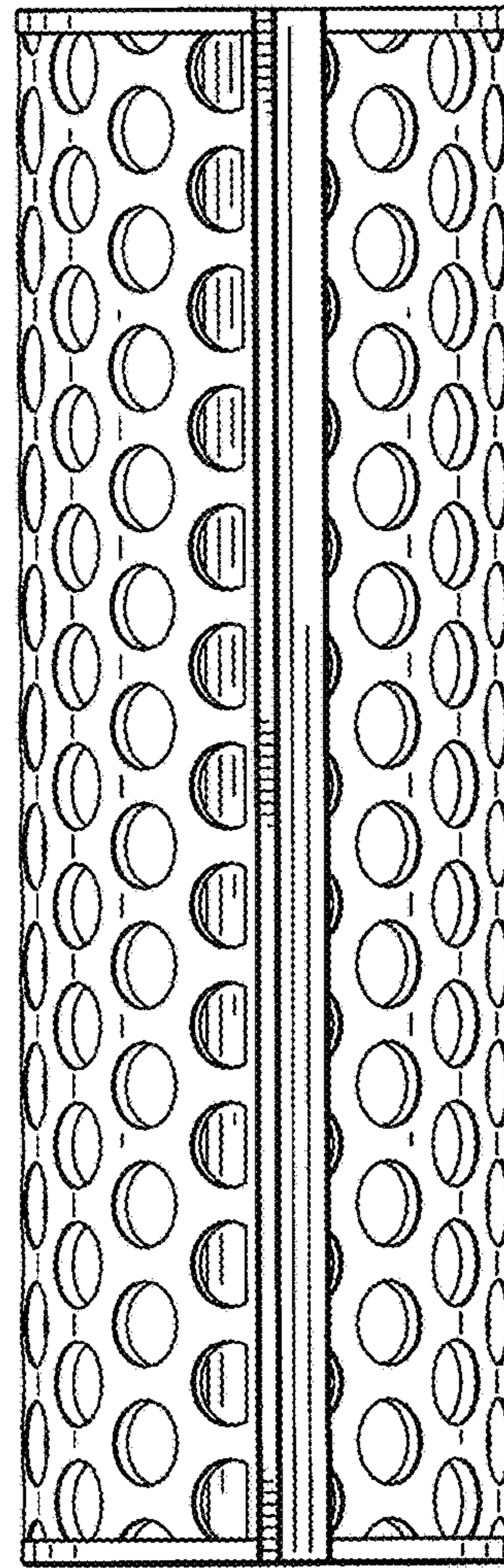


FIG. 5

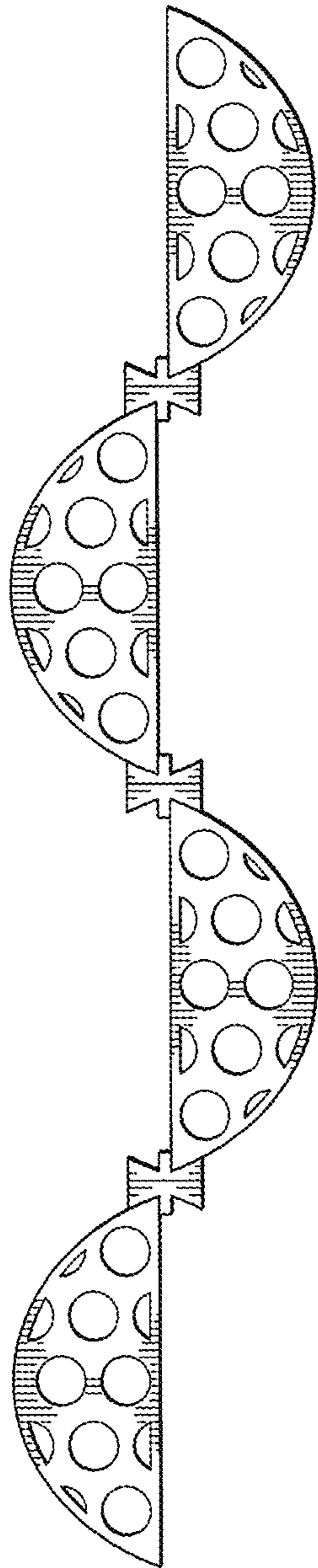


FIG. 6

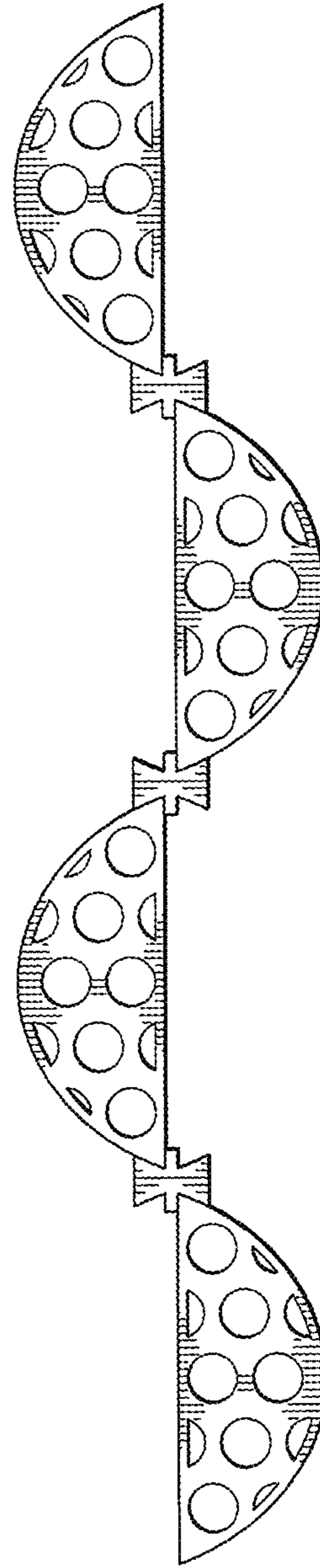


FIG. 7

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D793,545 S  
APPLICATION NO. : 29/591159  
DATED : August 1, 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 sentences after the portion of the text reading "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 circular holes perforating the surfaces. In FIGS. 1-7, the semi-elliptical cylinder surfaces are joined by structural support members.--

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*