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(12) **United States Design Patent** (10) **Patent No.:** **US D792,574 S**  
**Buzanowski et al.** (45) **Date of Patent:** **\*\* Jul. 18, 2017**

(54) **COATED SCREEN FOR LARGE PARTICLE ASH CONTROL**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Integrated Global Services, Inc.**,  
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GB 2441171 A 2/2008  
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(57) **CLAIM**  
The ornamental design for a coated screen for large particle ash control, as shown and described.

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

**DESCRIPTION**

(21) Appl. No.: **29/593,247**

(22) Filed: **Feb. 7, 2017**

**Related U.S. Application Data**

(62) Division of application No. 29/452,079, filed on Apr. 11, 2013, now Pat. No. Des. 781,408.

(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 Coated Screen for Large Particle Ash Control 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 and issued Jan. 20, 2015 as U.S. Pat. No. 8,936,662.

The present application is related to concurrently filed U.S. Design application Ser. No. 29/593,246 and U.S. Design application Ser. No. 29/593,248 both entitled "Coated Screen for Large Particle Ash Control". In addition, the present application is related to U.S. Design application Ser. No. 29/452,332 entitled "High Surface Area Ash Removal Screen," filed Apr. 15, 2013, and issued Feb. 7, 2017 as U.S. Pat. No. D. 778,423. The disclosures of all applications mentioned above are incorporated herein by reference in their entirety.

FIG. 1 is a front perspective view of the coated screen for large particle ash control;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a back elevation view thereof;  
FIG. 4 is a right elevation view thereof;  
FIG. 5 is a left elevation view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.

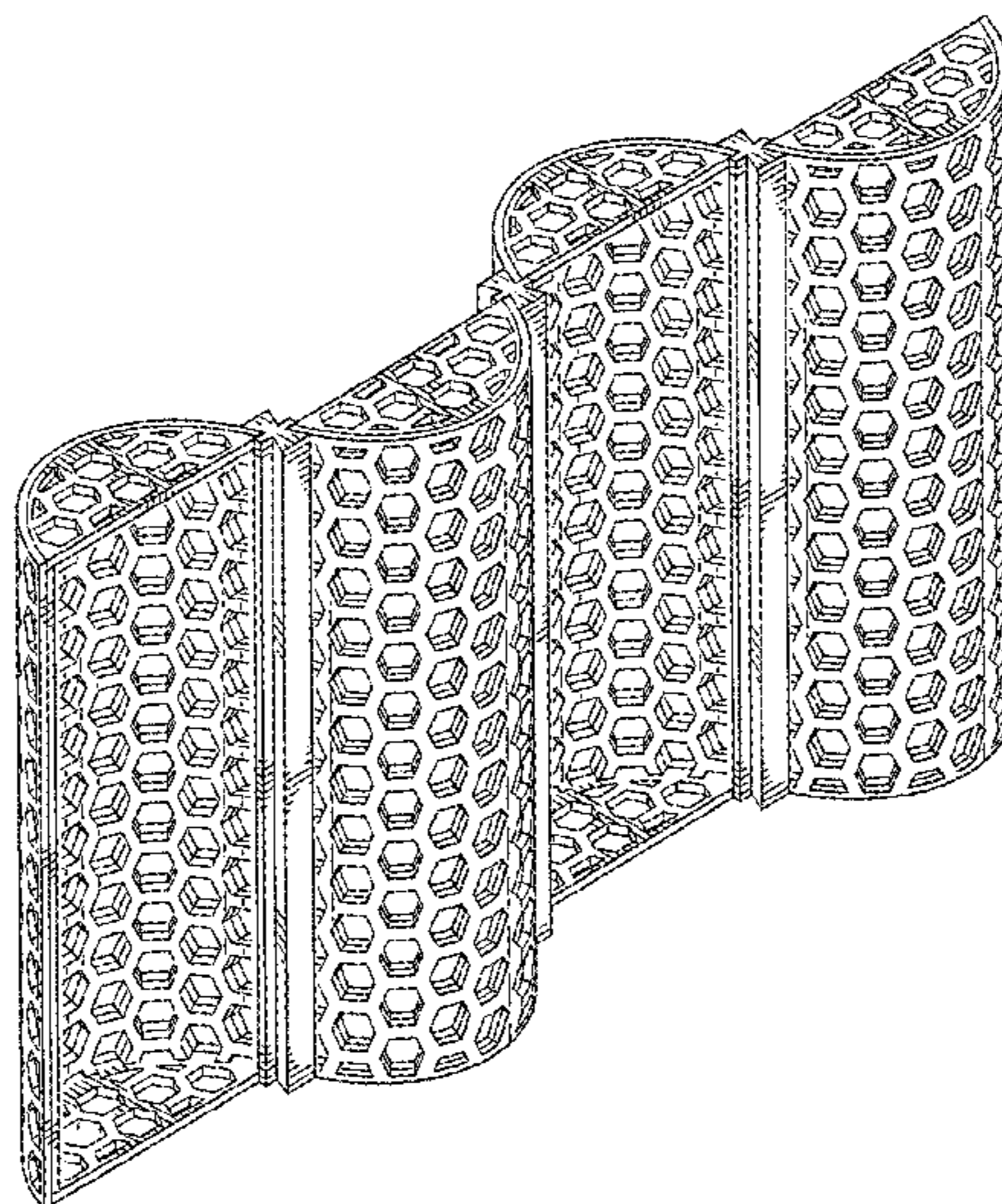
(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D27,876 S 11/1897 Smith  
3,070,937 A 1/1963 Bub

(Continued)

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

3,310,098 A 3/1967 Hardison  
 D254,506 S 3/1980 Holmberg  
 4,652,286 A 3/1987 Kusuda et al.  
 6,454,839 B1 9/2002 Hagglund et al.  
 D537,502 S \* 2/2007 Miller ..... D23/209  
 D588,256 S \* 3/2009 Daniels ..... D23/373  
 D589,134 S 3/2009 O'Hagin et al.  
 7,618,480 B2 \* 11/2009 Barnwell ..... B01D 46/003  
 210/443  
 7,625,417 B2 12/2009 Yang  
 D609,775 S 2/2010 Zukor  
 D610,245 S 2/2010 Daniels  
 D639,900 S 6/2011 Buzanowski  
 D640,347 S 6/2011 Buzanowski  
 D643,508 S 6/2011 Wilkinson et al.  
 D667,043 S 9/2012 Couch, III

D750,736 S \* 3/2016 Enomoto ..... D23/207  
 D776,801 S \* 1/2017 Tamura ..... D23/330  
 D778,423 S \* 2/2017 Buzanowski ..... D23/386  
 D781,408 S \* 3/2017 Buzanowski ..... D23/386  
 2002/0072324 A1 \* 6/2002 Strait ..... E04D 13/174  
 454/365  
 2002/0104299 A1 \* 8/2002 Chang ..... B01D 46/0005  
 55/497  
 2003/0019194 A1 \* 1/2003 Lin ..... B01D 39/02  
 55/495  
 2011/0173937 A1 7/2011 Nelson  
 2012/0036817 A1 2/2012 Buzanowski  
 2012/0073216 A1 \* 3/2012 Daniels ..... E04D 1/30  
 52/95  
 2012/0073666 A1 3/2012 Hjelmberg et al.  
 2013/0344796 A1 \* 12/2013 Rossetta ..... E04D 13/174  
 454/365  
 2014/0090560 A1 4/2014 Buzanowski et al.  
 2016/0320127 A1 \* 11/2016 Collins, III ..... F23G 7/068

\* cited by examiner



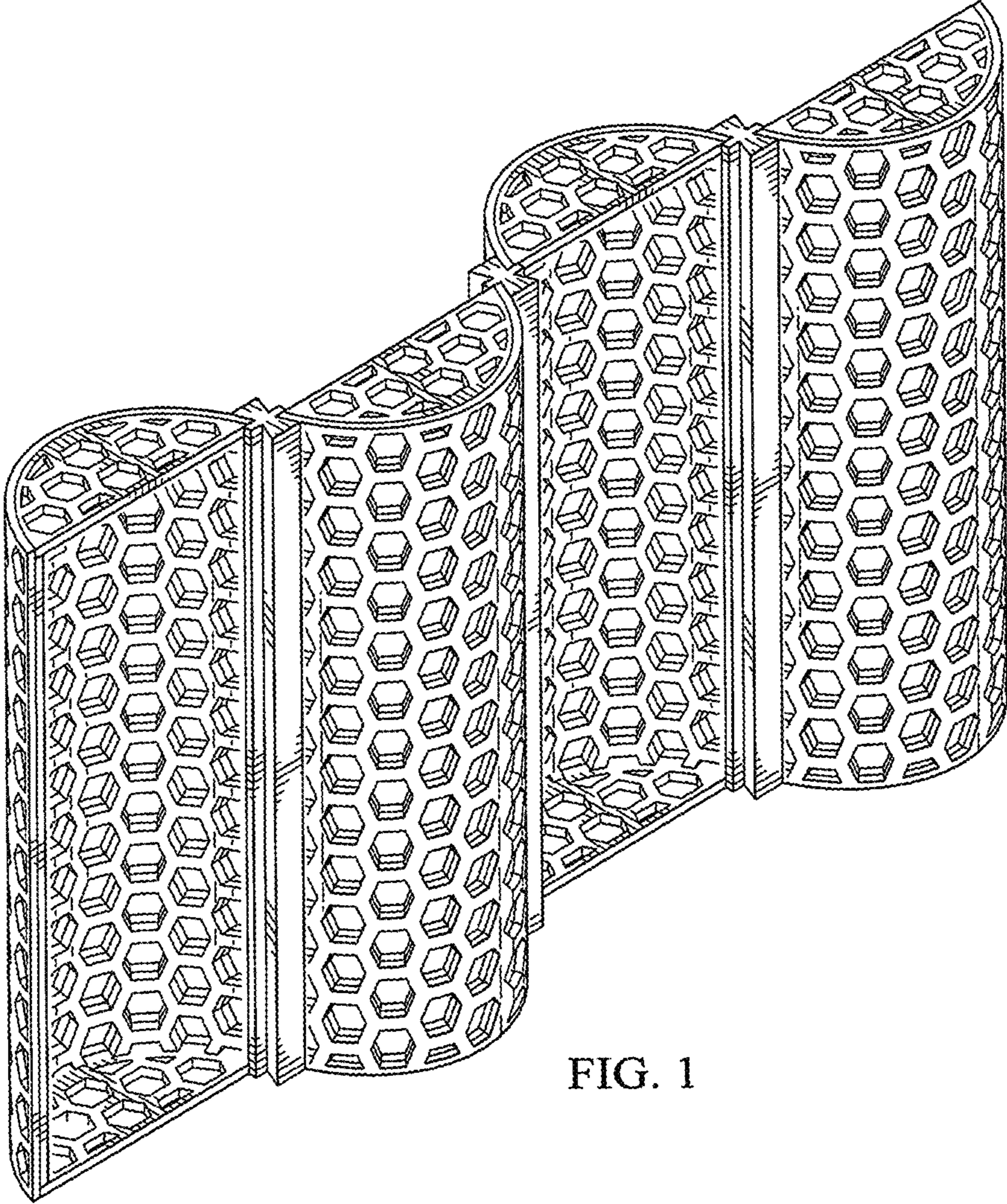


FIG. 1



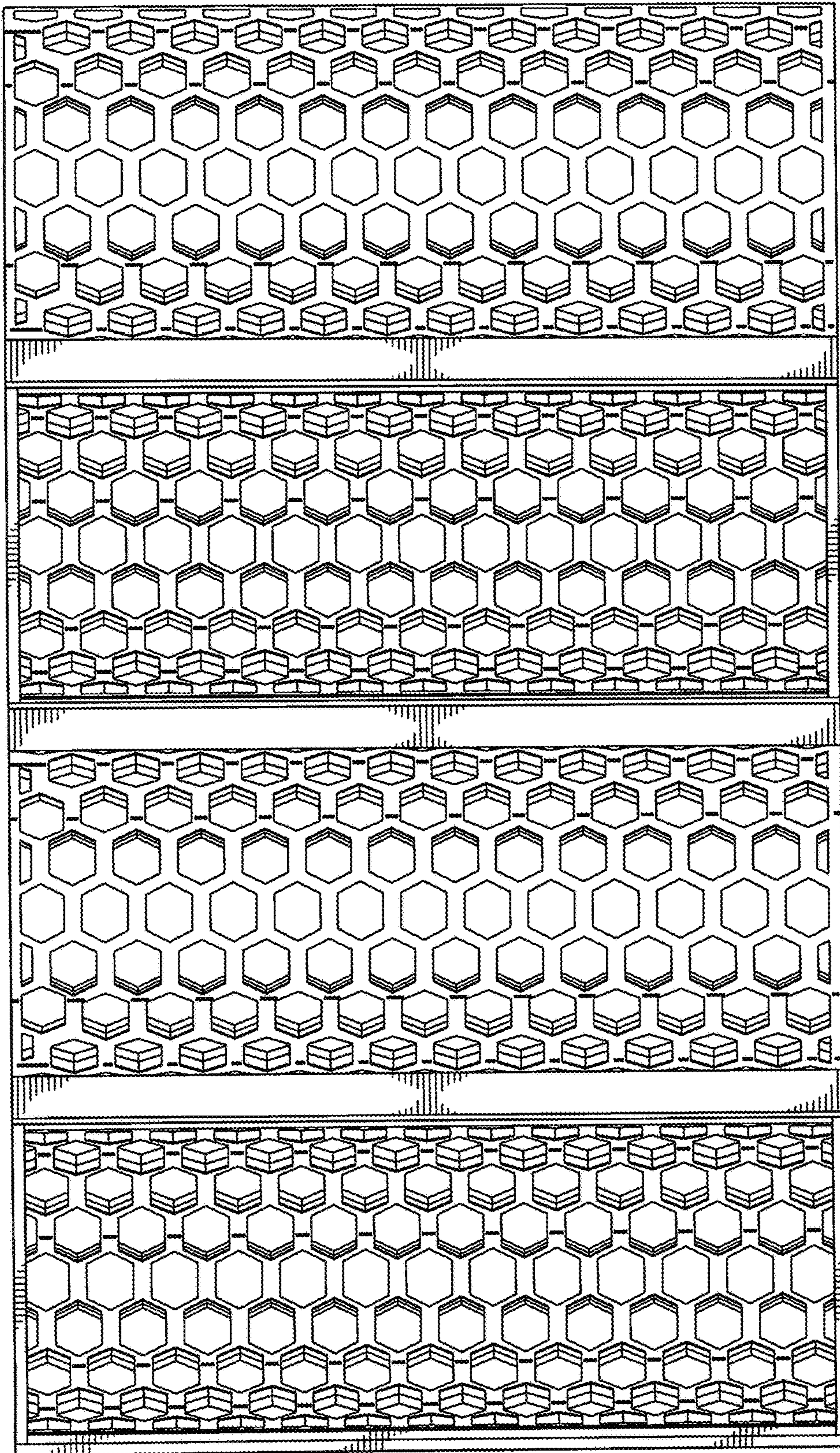


FIG. 2



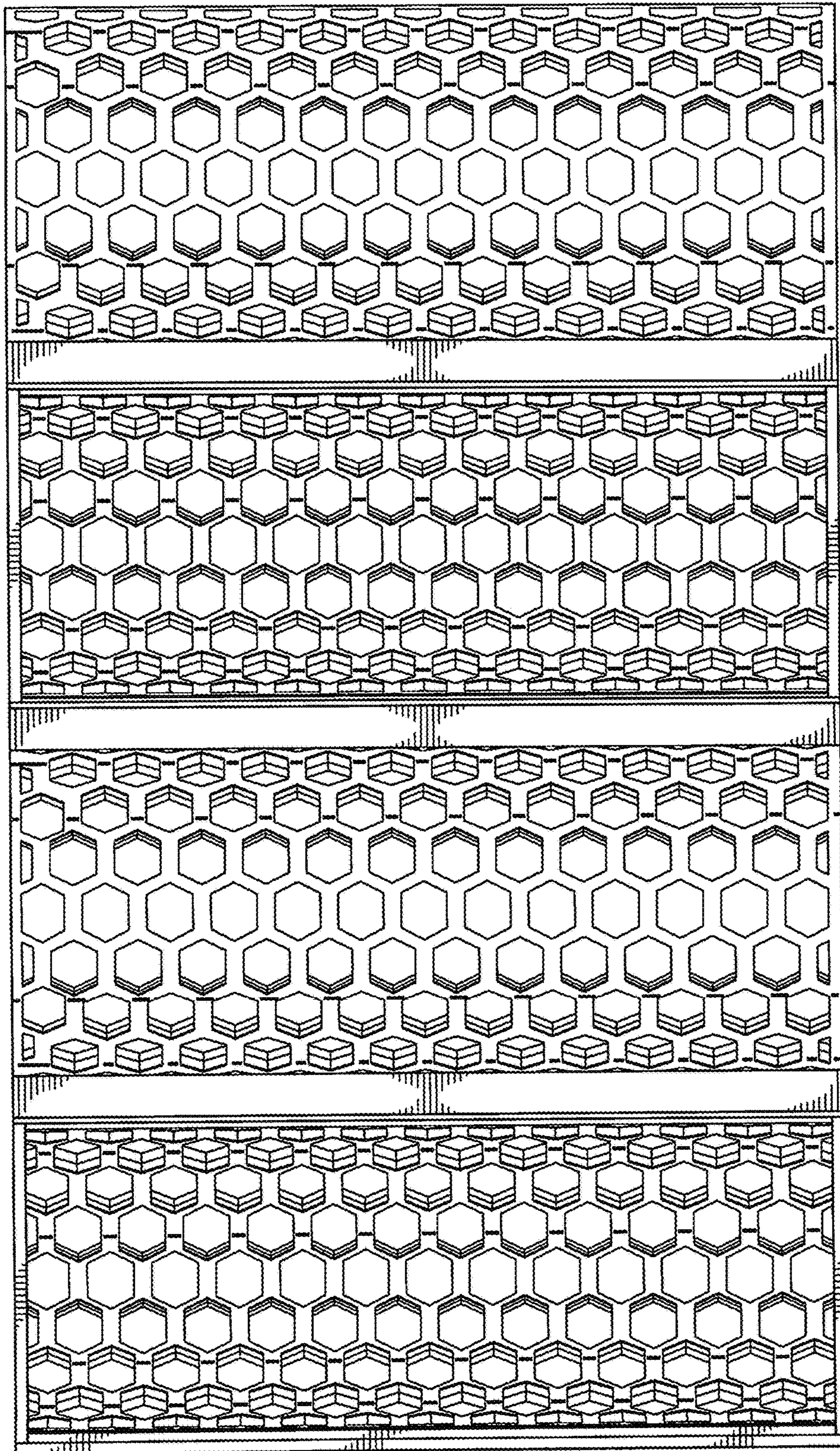


FIG. 3



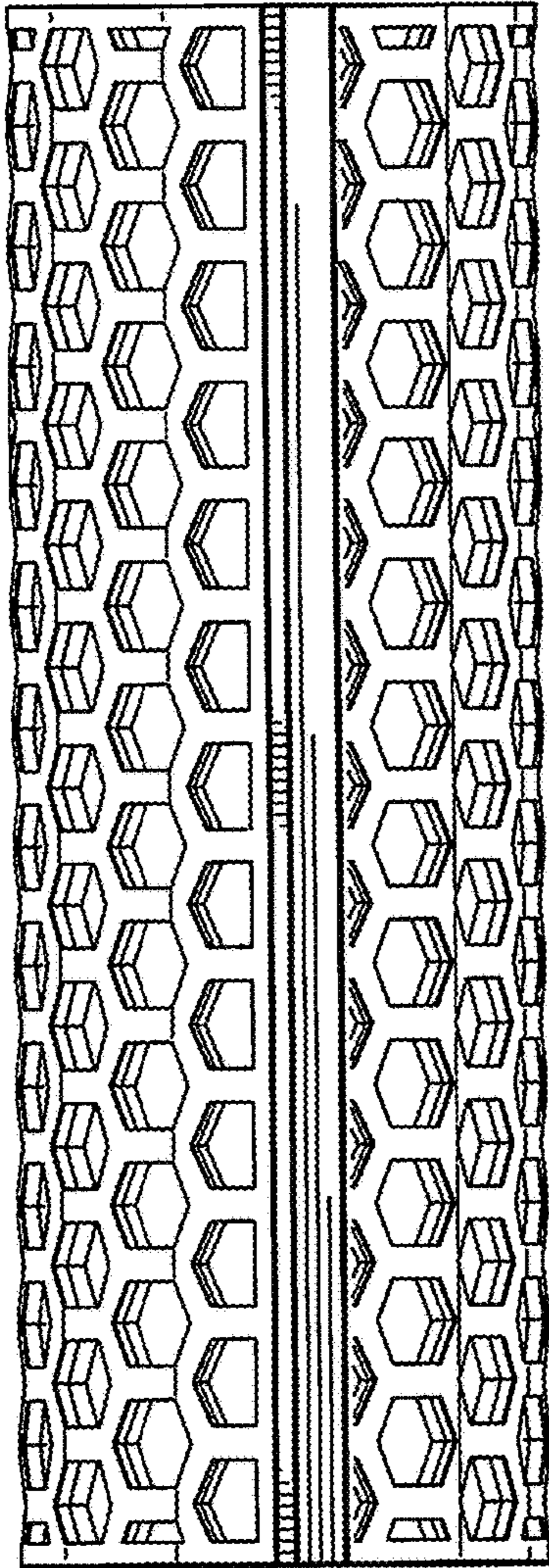


FIG. 4

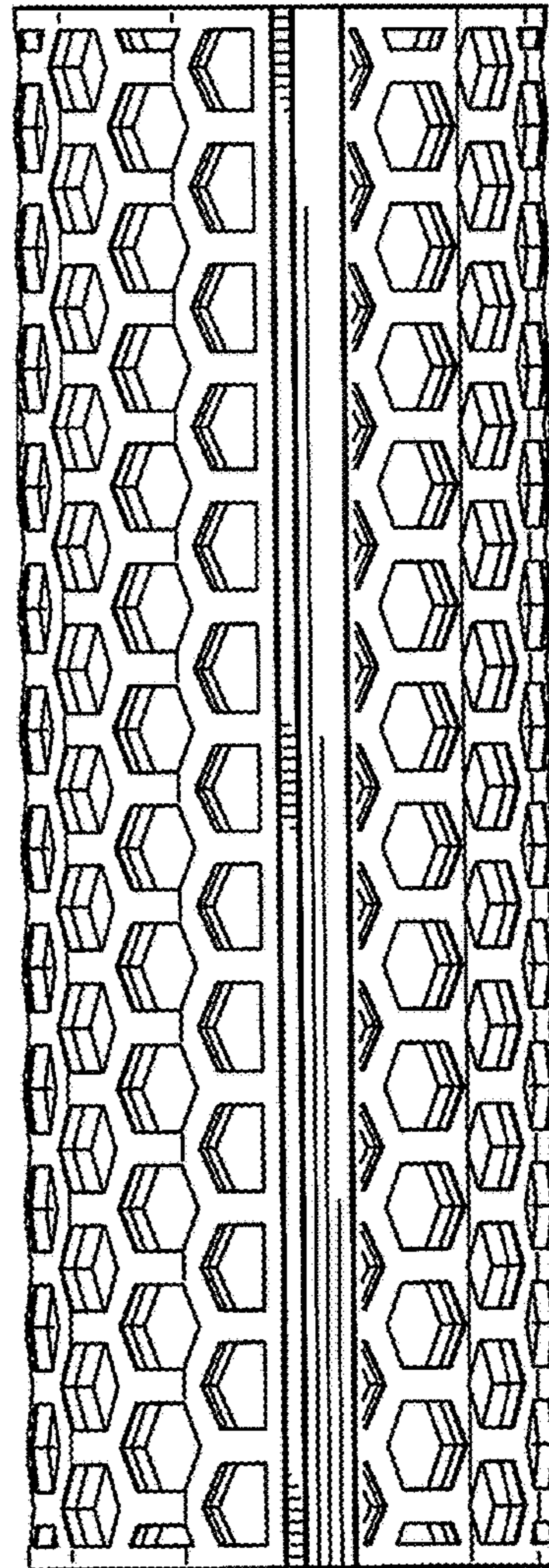


FIG. 5

FIG. 6

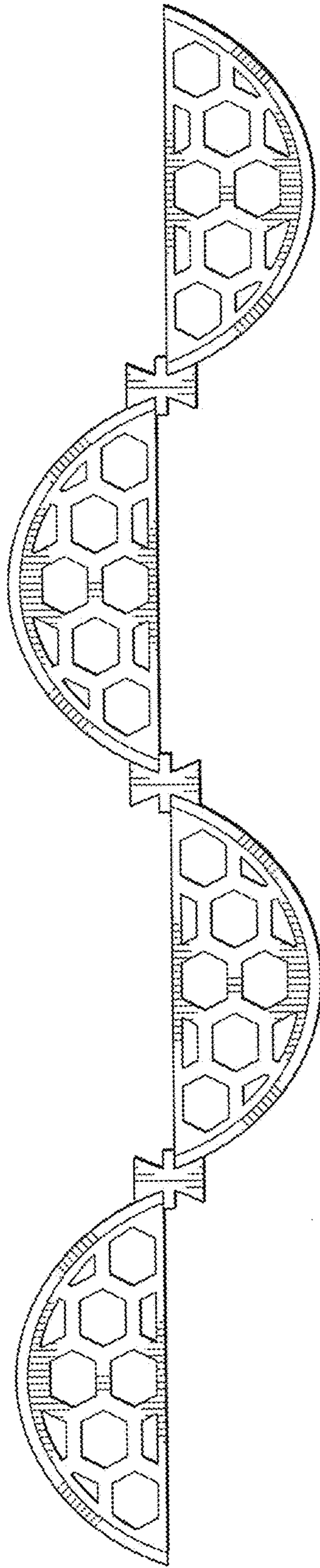
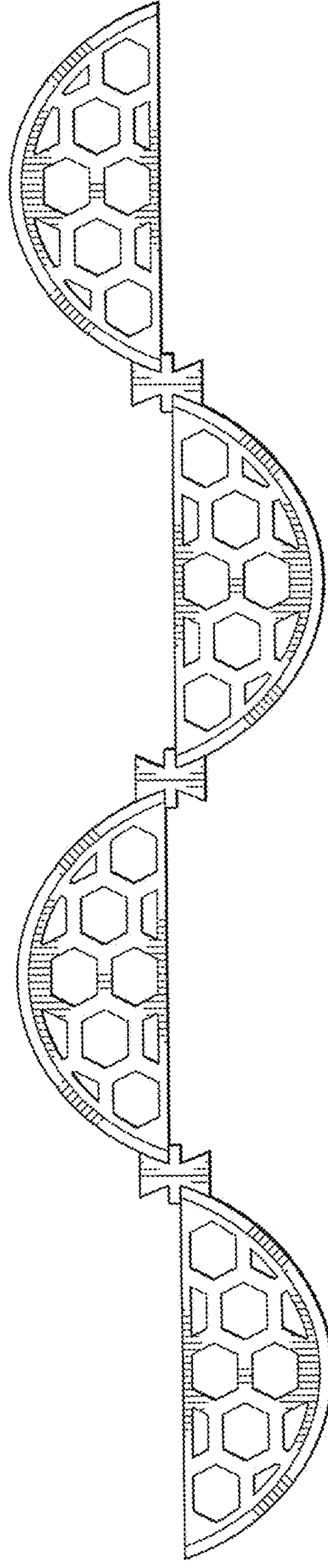


FIG. 7



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

PATENT NO. : D792,574 S  
APPLICATION NO. : 29/593247  
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 “U.S. Pat. No. 8,936,662”:

--The present application is a division of U.S. Design application Ser. No. 29/452,079 entitled “Coated Screen For Large Particle Ash Control,” filed April 11, 2013, and issued March 14, 2017 as D781,408.--

Signed and Sealed this  
Twenty-sixth 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*