



US00D924178S

(12) **United States Design Patent** (10) **Patent No.:** **US D924,178 S**
Stray et al. (45) **Date of Patent:** **** Jul. 6, 2021**

(54) **RIVET DELIVERY CUBE**
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D510,320 S * 10/2005 Tuomola D13/110
D575,778 S * 8/2008 Dearborn D14/300
D584,252 S * 1/2009 Lewis, II D13/184
D728,477 S * 5/2015 Meyer D13/123
9,363,917 B2 * 6/2016 Merlet G06F 1/16
D771,565 S * 11/2016 Saarivirta D13/110
D772,162 S * 11/2016 Saarivirta D13/110
D814,425 S * 4/2018 Stray D13/162.1
D815,051 S * 4/2018 Stray D13/162
(Continued)

(**) Term: **15 Years**
(21) Appl. No.: **29/708,233**
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(51) **LOC (13) Cl.** **13-03**
(52) **U.S. Cl.**
USPC **D13/162; D13/110; D13/162.1**
(58) **Field of Classification Search**
USPC D13/110, 112, 120, 122, 123, 145-47,
D13/155, 158, 159, 162-164, 162.1, 168,
D13/184; D14/100, 114, 348, 349, 439;
D15/149, 199
CPC .. G05B 19/40; G05B 19/414; G05B 19/4147;
G05B 19/4163; G06F 13/124; H05K 7/14
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
4,510,565 A * 4/1985 Dummermuth G05B 19/4147
700/169
4,568,866 A * 2/1986 Floro G05B 19/4147
318/561
D400,509 S * 11/1998 Brunelle D13/162

OTHER PUBLICATIONS

“Atlas Copco Poka-yoke rivet Feeder.” Vimeo., Aug. 29, 2019
[online], [retrieved on Apr. 24, 2021]. Retrieved from the Internet <
URL: <https://vimeo.com/356660045>>.*

(Continued)

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Friedrich LLP

(57) **CLAIM**

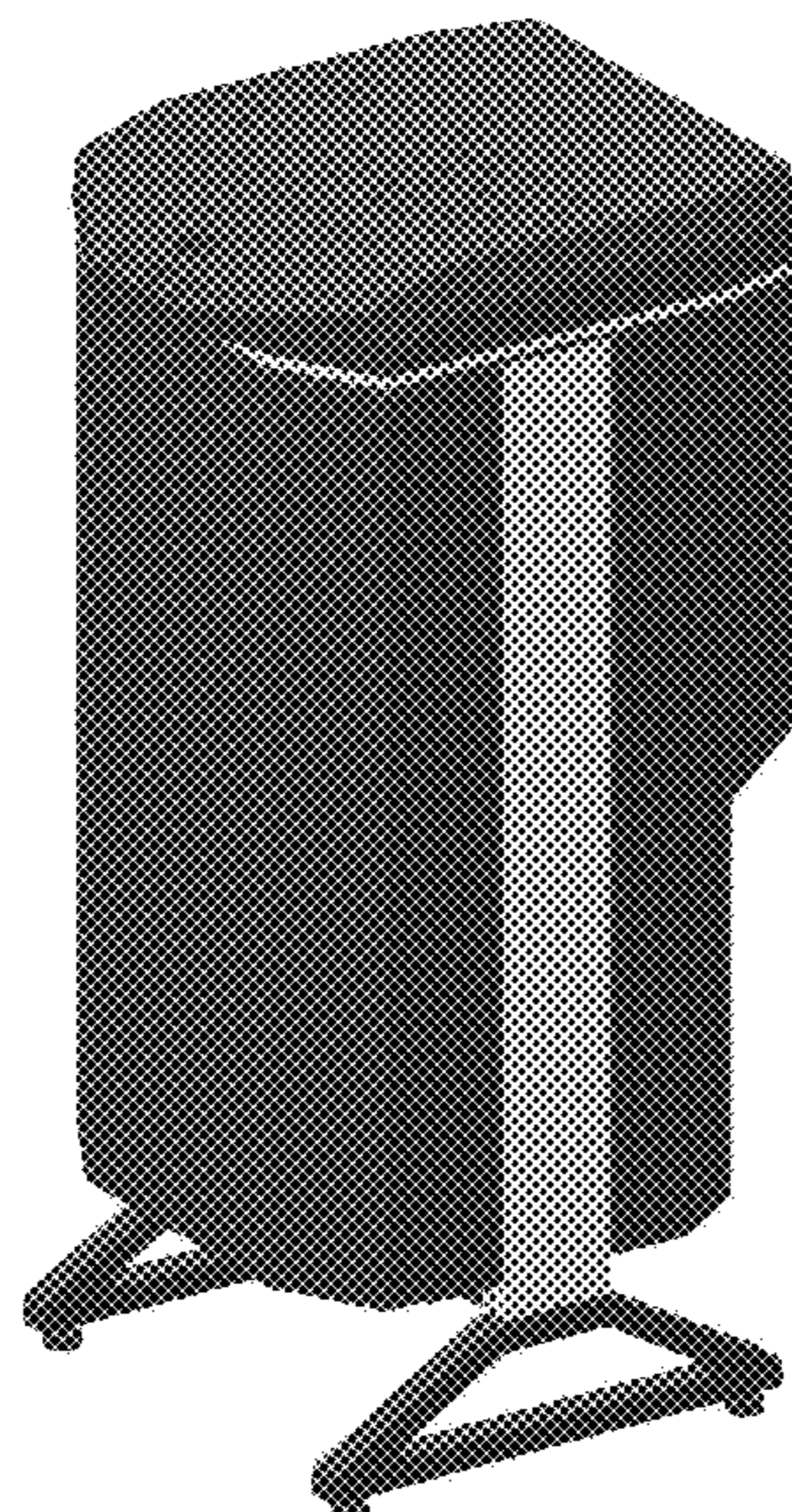
We claim the ornamental design for a rivet delivery cube, as
shown and described.

DESCRIPTION

The patent or application file contains at least one drawing
executed in color. Copies of this patent or patent application
publication with color drawing(s) will be provided by the
Office upon request and payment of the necessary fee.

FIG. 1 is a perspective view of a rivet delivery cube
embodying my new design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a right side elevation view thereof;
FIG. 4 is a rear 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.

1 Claim, 7 Drawing Sheets
(7 of 7 Drawing Sheet(s) Filed in Color)



(56)

References Cited

U.S. PATENT DOCUMENTS

D816,047 S * 4/2018 Stray D13/162.1
D816,048 S * 4/2018 Stray D13/162.1
D826,180 S * 8/2018 Stray D13/162

OTHER PUBLICATIONS

“Optimisation of the Assembly lowers Production Costs.” Avdel Global., Apr. 8, 2009 [online], [retrieved on Apr. 24, 2021]. Retrieved from the Internet <URL: <http://www.avdel-global.com/en/news/press-releases/press-releases/assembly-stations.html>>.*

“Stanley Engineered Fastening. Automated Assembly Solutions.” Avdel Global., Dec. 23, 2014 [online], [retrieved on Apr. 24, 2021]. Retrieved from the Internet <URL: https://www.stanleyengineeredfastening.com/-/media/web/sef/resources/docs/avdel/avdel_automated_assembly_solutions_uk_4.pdf>.*

* cited by examiner

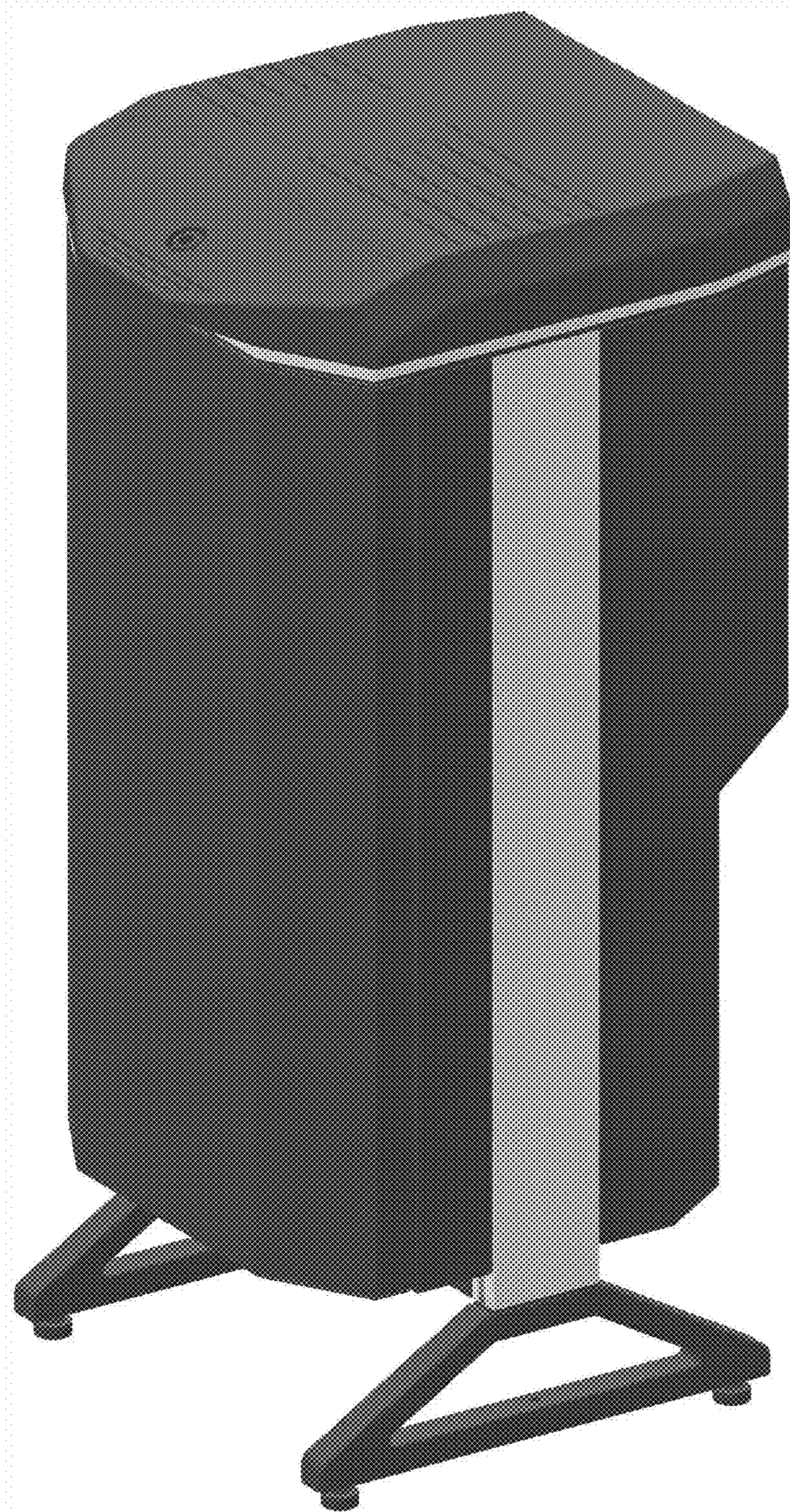


FIG. 1

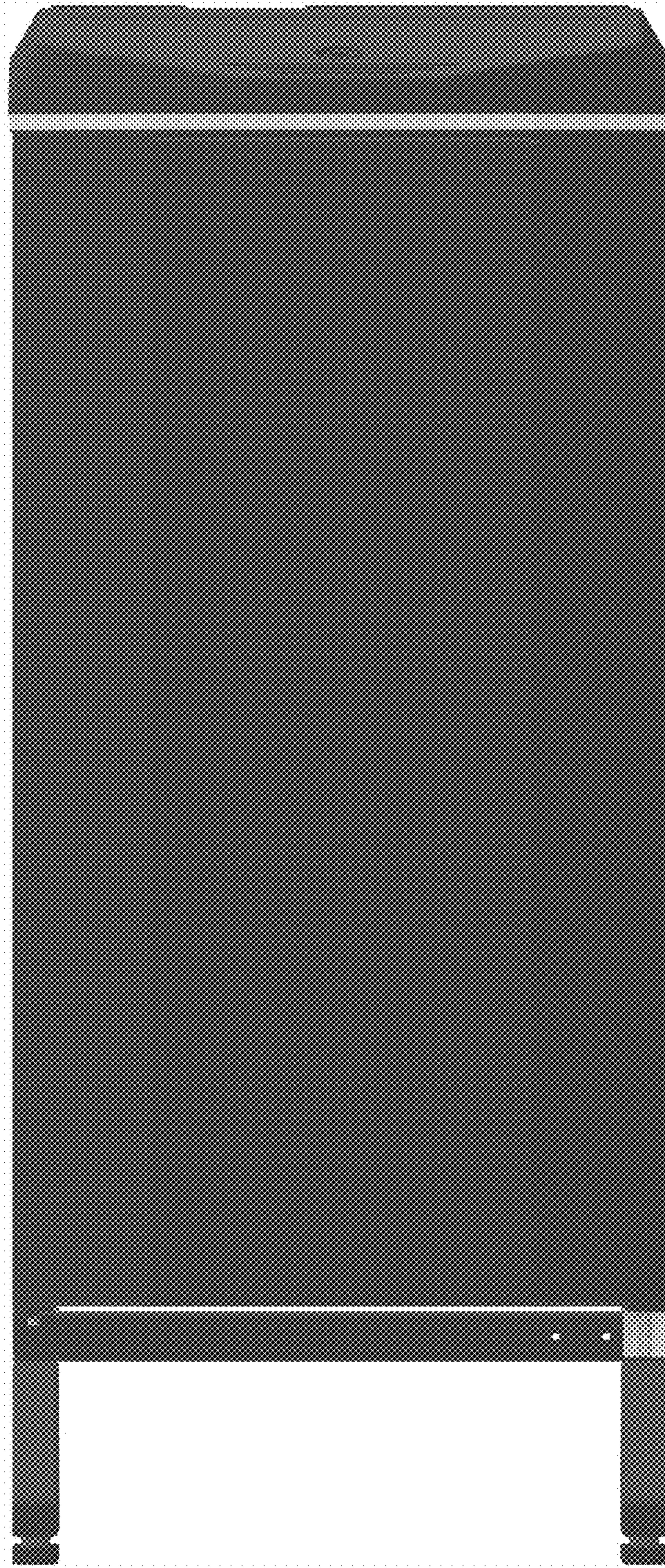


FIG. 2

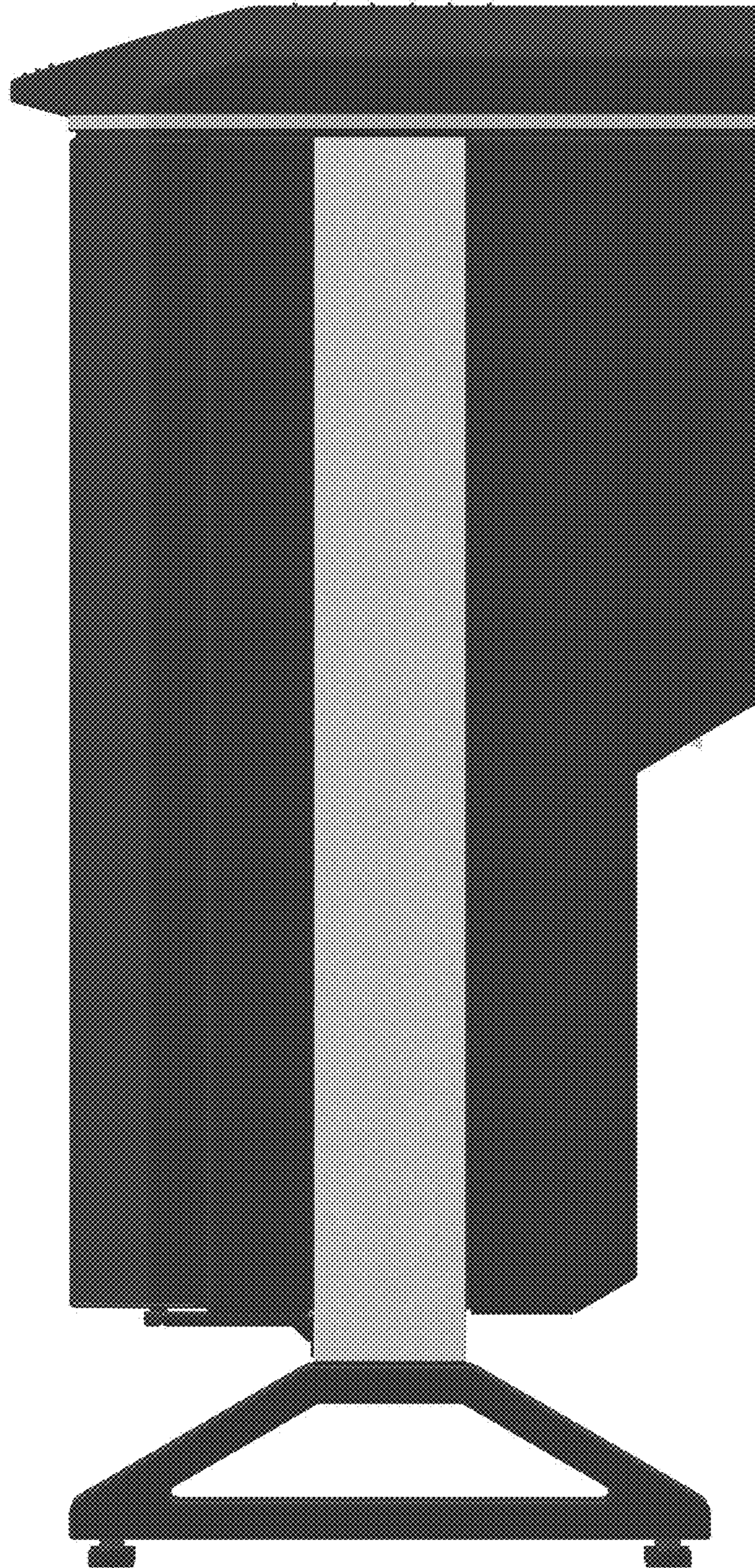


FIG. 3

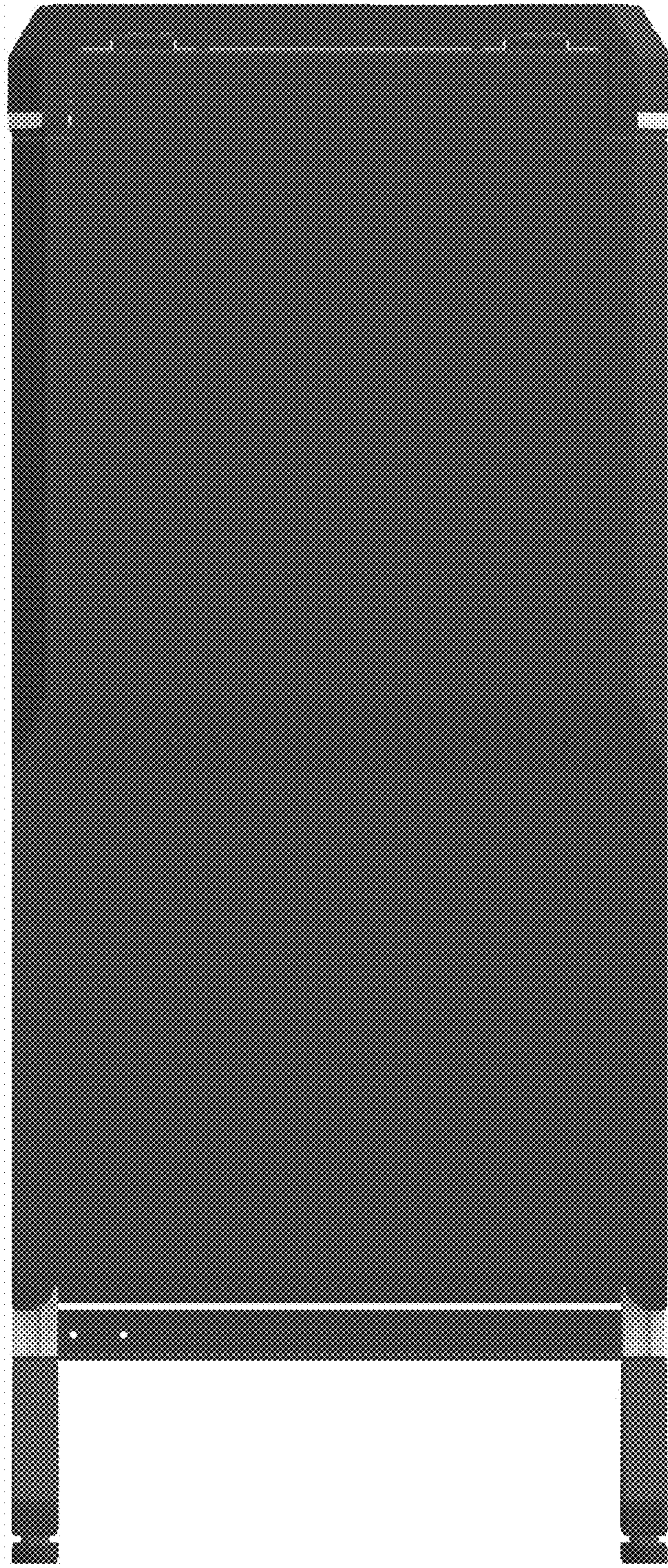


FIG. 4

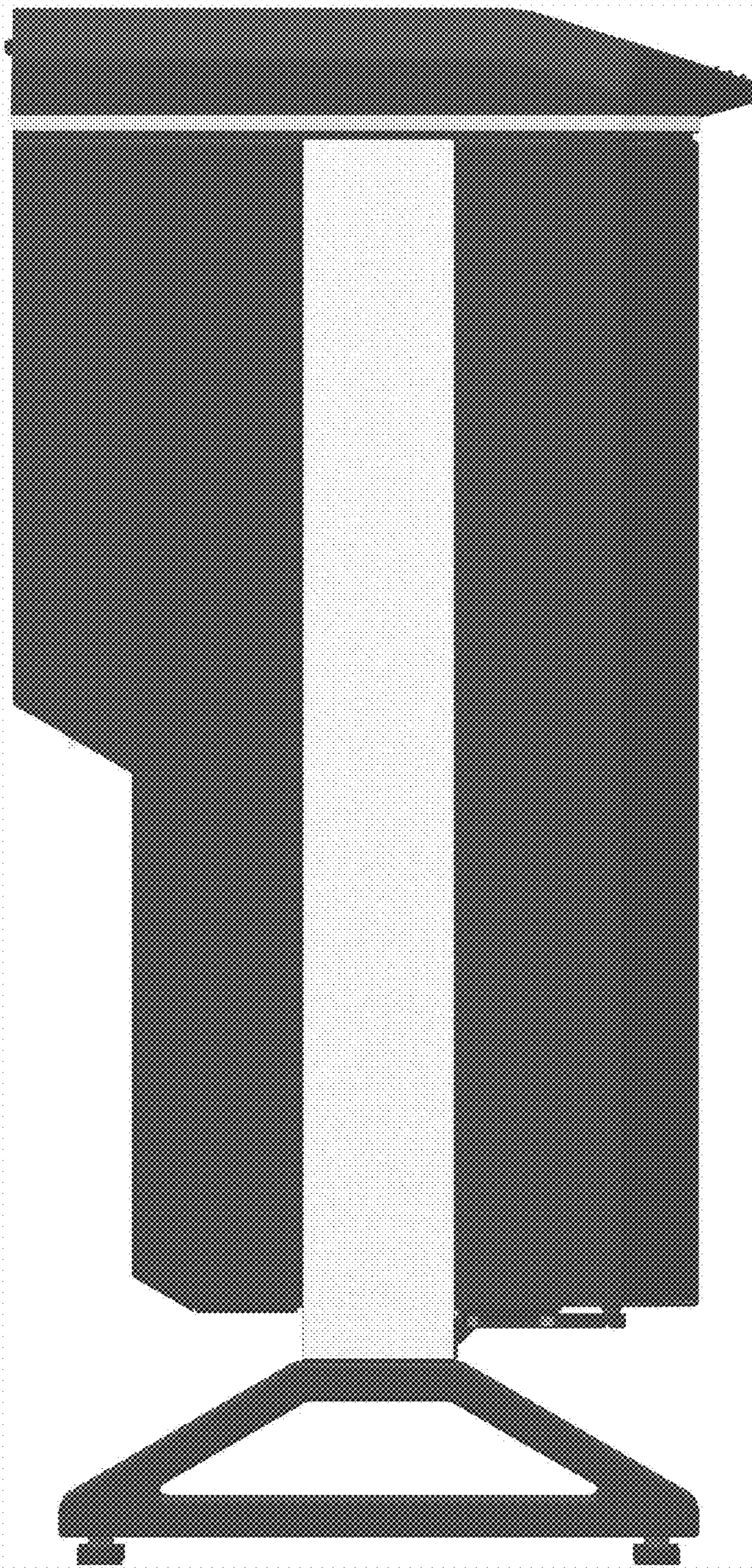


FIG. 5

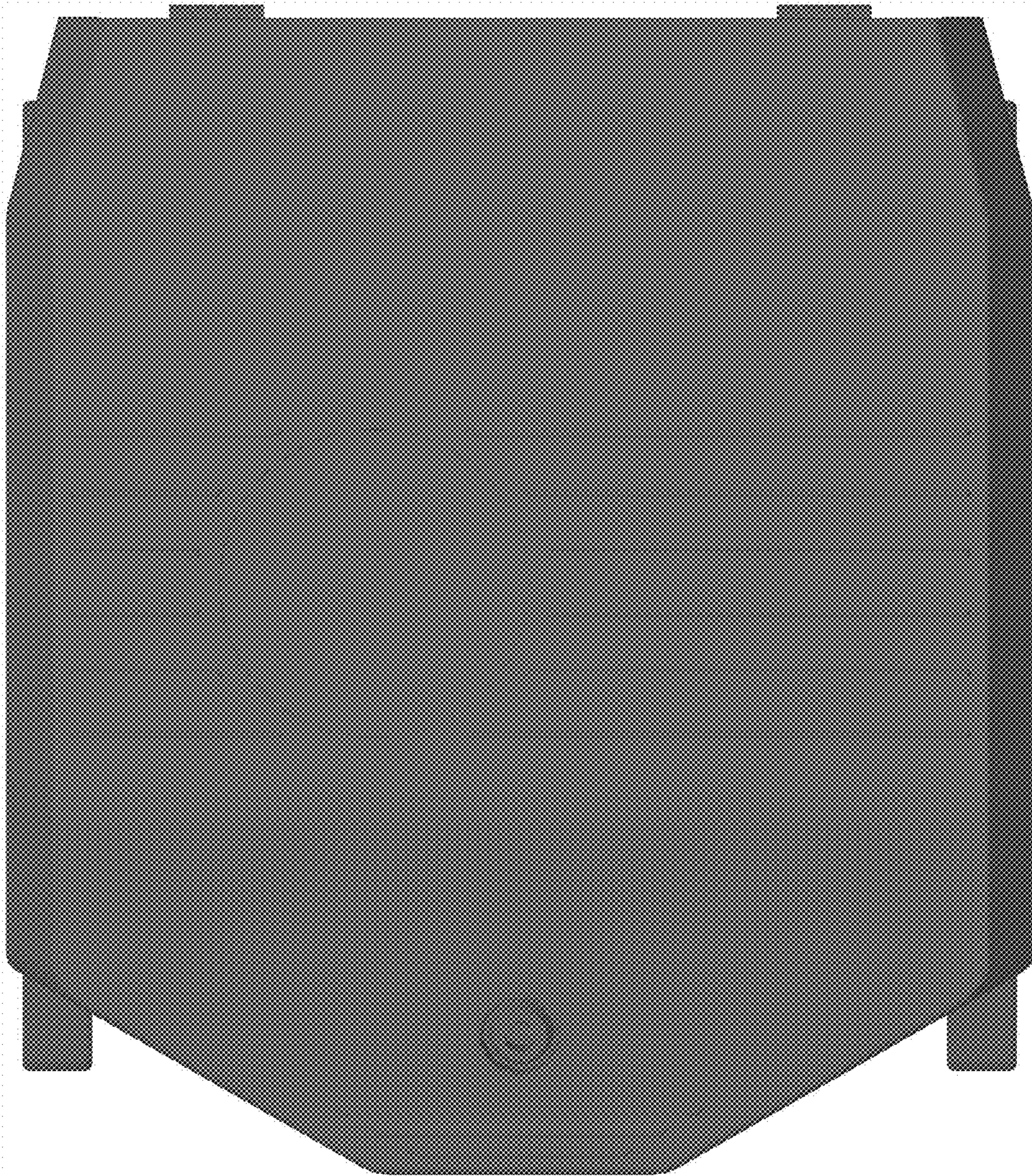


FIG. 6

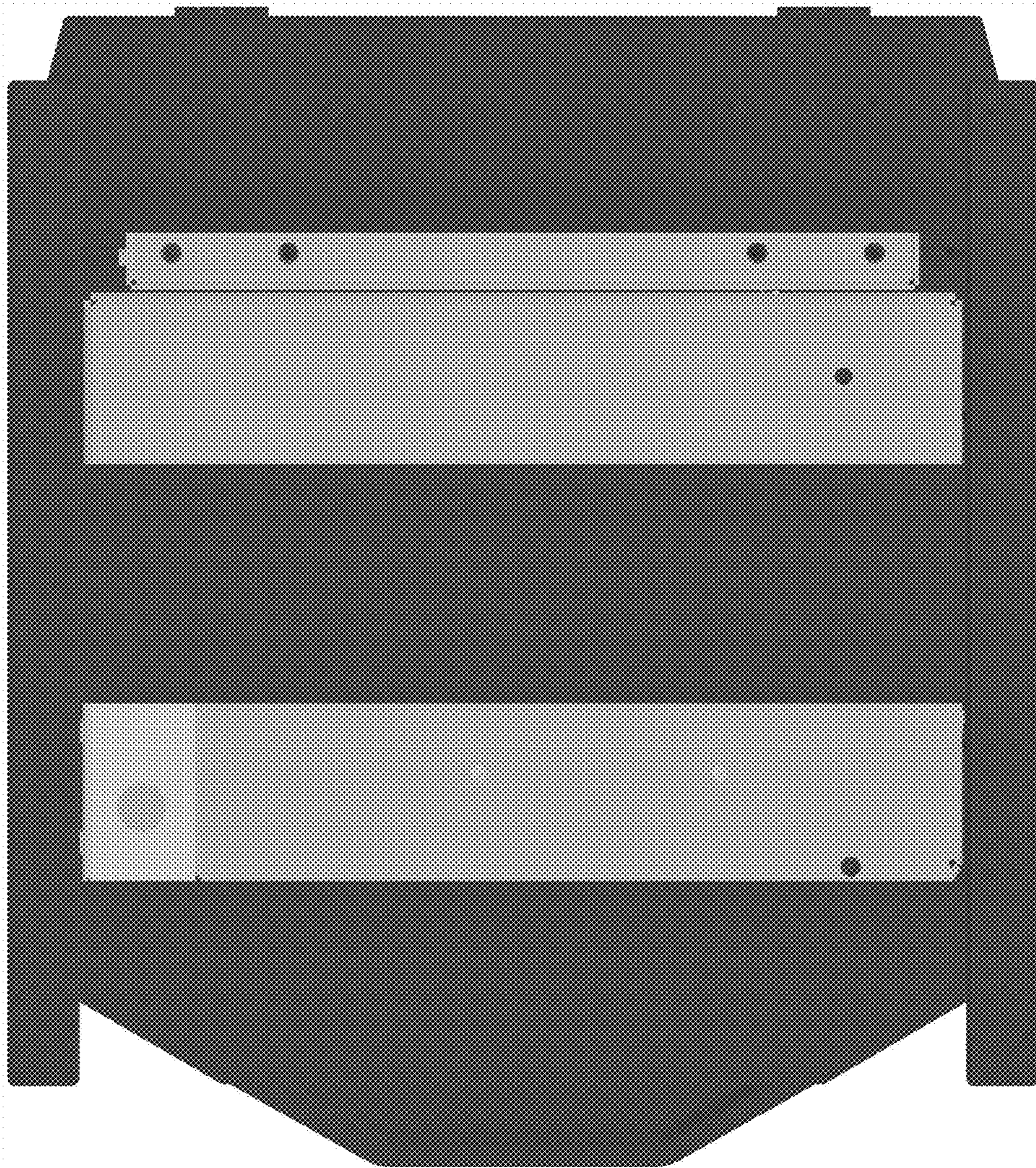


FIG. 7