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(12) United States Design Patent

Hyon et al.

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(45) Date of Patent: ** Nov. 14, 2023

(54) **MODULAR AIR CONDITIONER**

(71) Applicant: **LG ELECTRONICS INC.**, Seoul (KR)

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(73) Assignee: **LG ELECTRONICS INC.**, Seoul (KR)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (14) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/351**; D23/333

(58) **Field of Classification Search**
USPC D14/188, 204, 228, 348, 358; D7/300.1; D24/110, 129, 162, 209, 210, 217; D23/207–210, 213, 223, 259, 262, D23/332–336, 341, 351–354, 355–366, D23/370, 375, 378, 380, 386–393, 397,
(Continued)

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(Continued)

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Assistant Examiner — David Obrien

(74) *Attorney, Agent, or Firm* — Birch, Stewart, Kolasch & Birch, LLP

(57) **CLAIM**

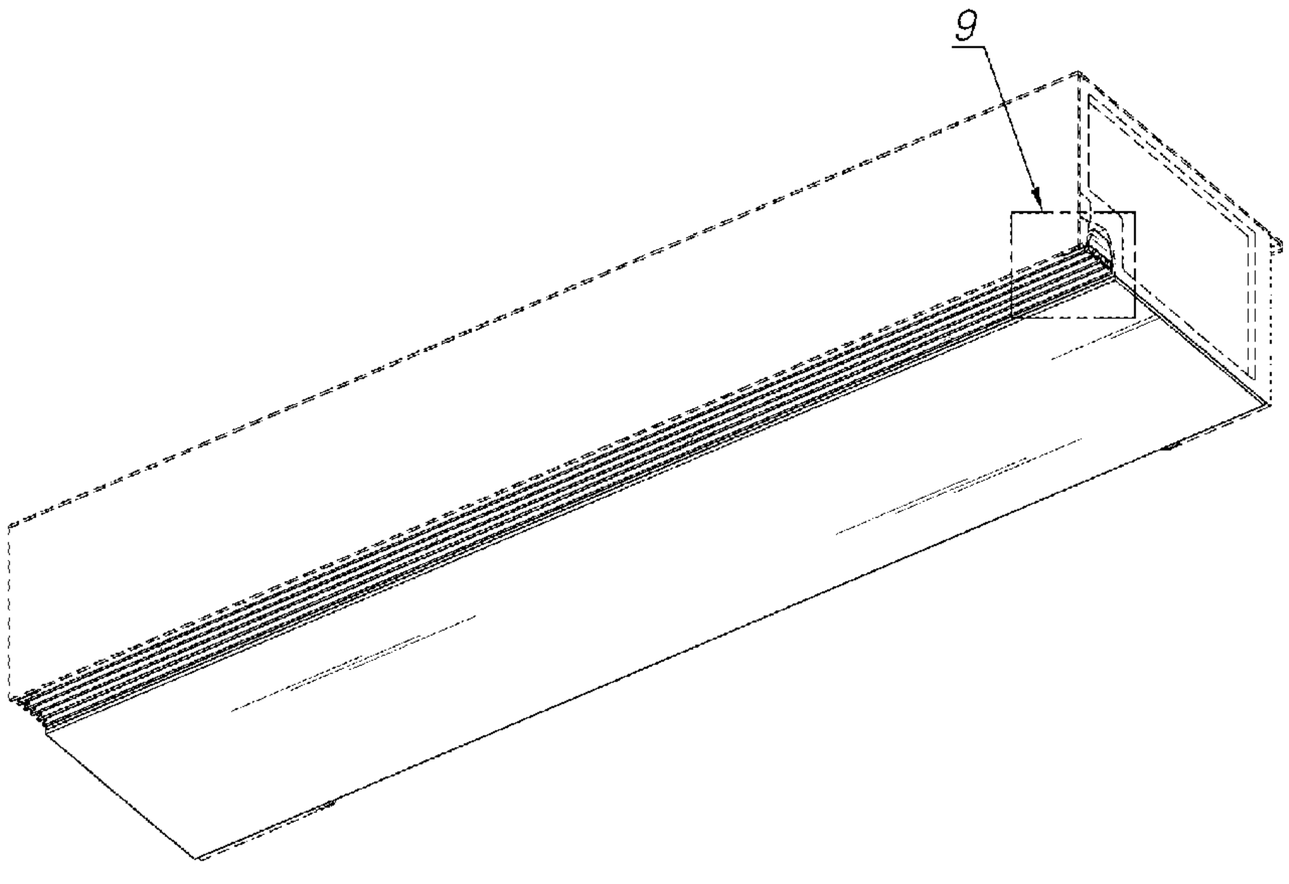
We claim the ornamental design for a modular air conditioner, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a modular air conditioner showing a new design;
FIG. **2** is a rear perspective view thereof;
FIG. **3** is a front view thereof;
FIG. **4** is a rear view thereof;
FIG. **5** is a left-side elevation view thereof;
FIG. **6** is a right-side elevation view thereof;
FIG. **7** is a top plan view thereof;
FIG. **8** is a bottom plan view thereof;
FIG. **9** is a partial enlarged view of the portion **9** in FIG. **1**;
FIG. **10** is a perspective view showing a state of the air outlet thereof being opened;
FIG. **11** is a perspective view showing a state of use being installed on a ceiling;
FIG. **12** is a partial enlarged view of the portion **12** in FIG. **10**;
FIG. **13** is a perspective view showing a state of use being connected in plurality; and,
FIG. **14** is another perspective view showing a state of use being connected in plurality.

The dot-dot-dash lines encircling portions of the claimed design in FIGS. **1**, **9**, **10** and **12** illustrate enlargement views and form no part thereof. The dot-dot-dash lines encircling portions of the claimed design in FIG. **11** are illustrated in a perspective view of a use state and form no part thereof. The broken lines in FIG. **11** are for the purpose of illustrating portions of environmental structure and form no part of the claimed design. The broken lines represent portions of the modular air conditioner that form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(58) **Field of Classification Search**
USPC D23/399, 423, 411–413; D15/5, 7, 8, D15/9.1, 79, 89; D12/194
CPC ... A61L 9/00; A61L 9/03; A61L 9/032; A61L 9/03504; A61L 9/05; A61L 9/12; A61L 9/14; A61L 9/20; A61L 9/22; A61L 9/012; A61L 9/015; A61L 9/048; A61L 9/122; A61L 9/127; A61L 9/205; A61L 2209/11; A61L 2209/14; A61L 2209/133; A61L 2/00; A61L 2/0005; A61L 2/0047; A61L 2/0052; A61L 2/084; A61L 2/085; A61L 2/087; A61L 2/10; F24F 1/00; F24F 1/02; F24F 1/022; F24F 1/027; F24F 1/0007; F24F 1/0014; F24F 1/0018; F24F 1/0022; F24F 1/0047; F24F 1/0057; F24F 1/0071; F24F 1/008; F24F 5/00; F24F 6/00; F24F 6/02; F24F 6/06; F24F 8/00; F24F 8/10; F24F 8/22; F24F 8/24; F24F 8/30; F24F 13/00; F24F 13/02; F24F 13/0209; F24F 13/0254; F24F 13/06; F24F 13/20; F24F 2221/14; F24F 2221/17; F24F 11/30; H01T 23/00; Y10S 261/03; Y10S 261/04; Y10S 261/17; Y10S 261/31; Y10S 261/42; Y10S 261/43; Y10S 261/65; Y10S 261/88; Y10S 261/89; A61M 11/02; C02F 1/42; C02F 1/002; C02F 1/003; B01D 46/00; B01D 46/001; B01D 46/0001; B01D 46/0002; B01D 46/0004; B01D 46/0005; B01D 46/0013; B01D 46/0015; B01D 46/10; B01D 46/12; B01D 46/24; B01D 46/2411; B01D 46/2422; B01D 46/52; B01D 46/521; B01D 46/522; B01D 46/523; B01D 46/58; B01D 2267/60; B01D 2267/70; B01D 35/30; B01D 35/303; B01D 36/00; B01D 36/001; B01D 27/00; B01D 27/04; B01D 27/06; B01D 27/08; F17C 1/00; F02M 35/02; F02M 35/0201; F02M 35/0204; F02M 35/02416; F02M 35/02433; F02M 35/046; F02M 35/06; F02M 35/09; F02M 35/10; F02M 35/14; F02M 35/16; F02M 35/10006; F02M 35/10031; F02M 35/10032; F02M 35/10052; F02M 35/10078; F02M 35/10091; F02M 35/10144; F02M 35/10196; F02M 35/10262; F02M 35/10281; F02M 35/10288; F02M 35/1288; F02M 35/1266; F02M 37/00; F02M 37/32; F02M 37/54; F02M 35/04; F02M 35/104; F16L 37/113; F01N 3/00; F01N 3/20; F01N 3/021; F01N 3/05; F01N 3/046; F01N 3/18; F01N 2270/08; F01N 2470/00; F01N 2470/02; F01N 13/18; F01N 13/185
See application file for complete search history.

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FIG. 1

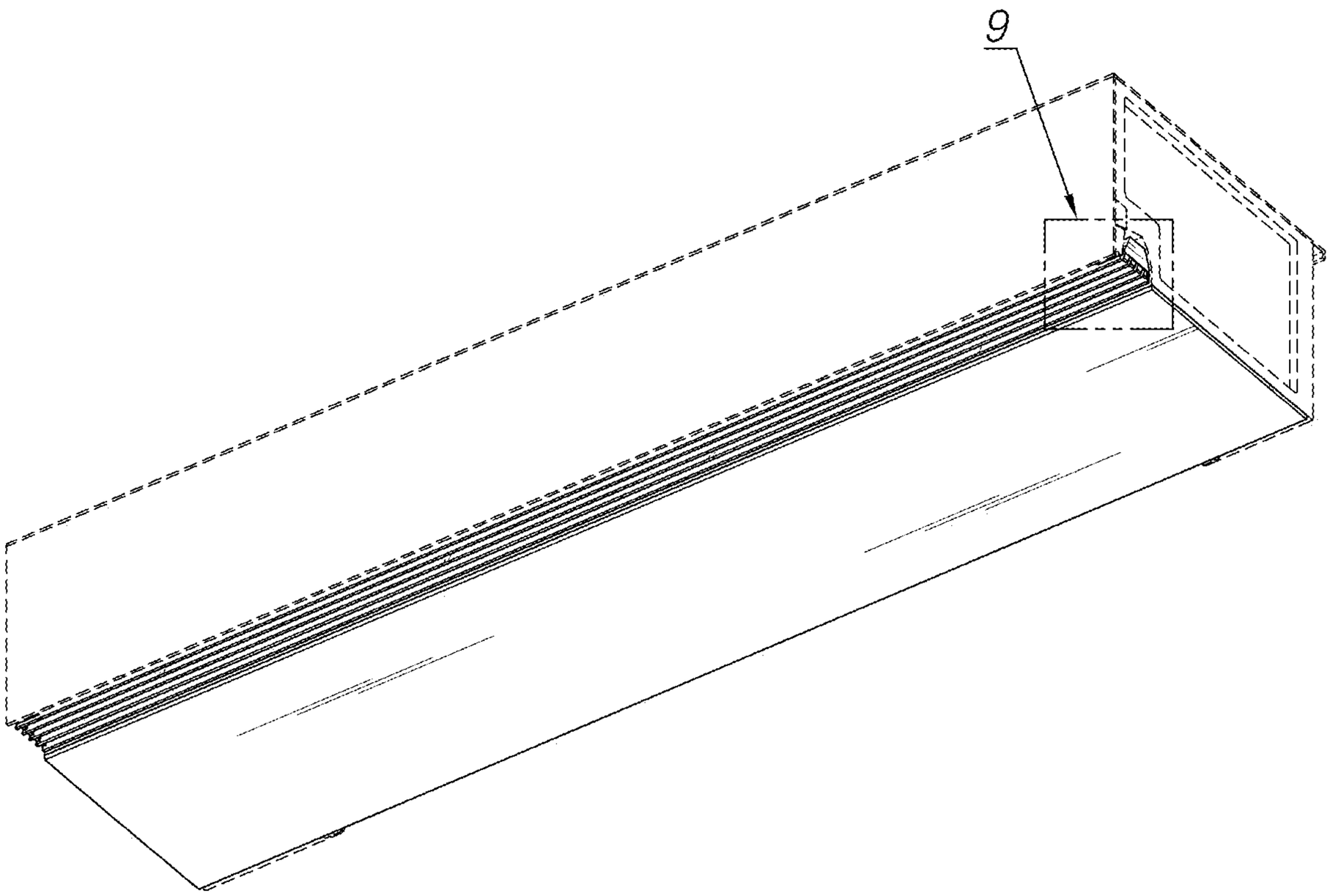

FIG. 2

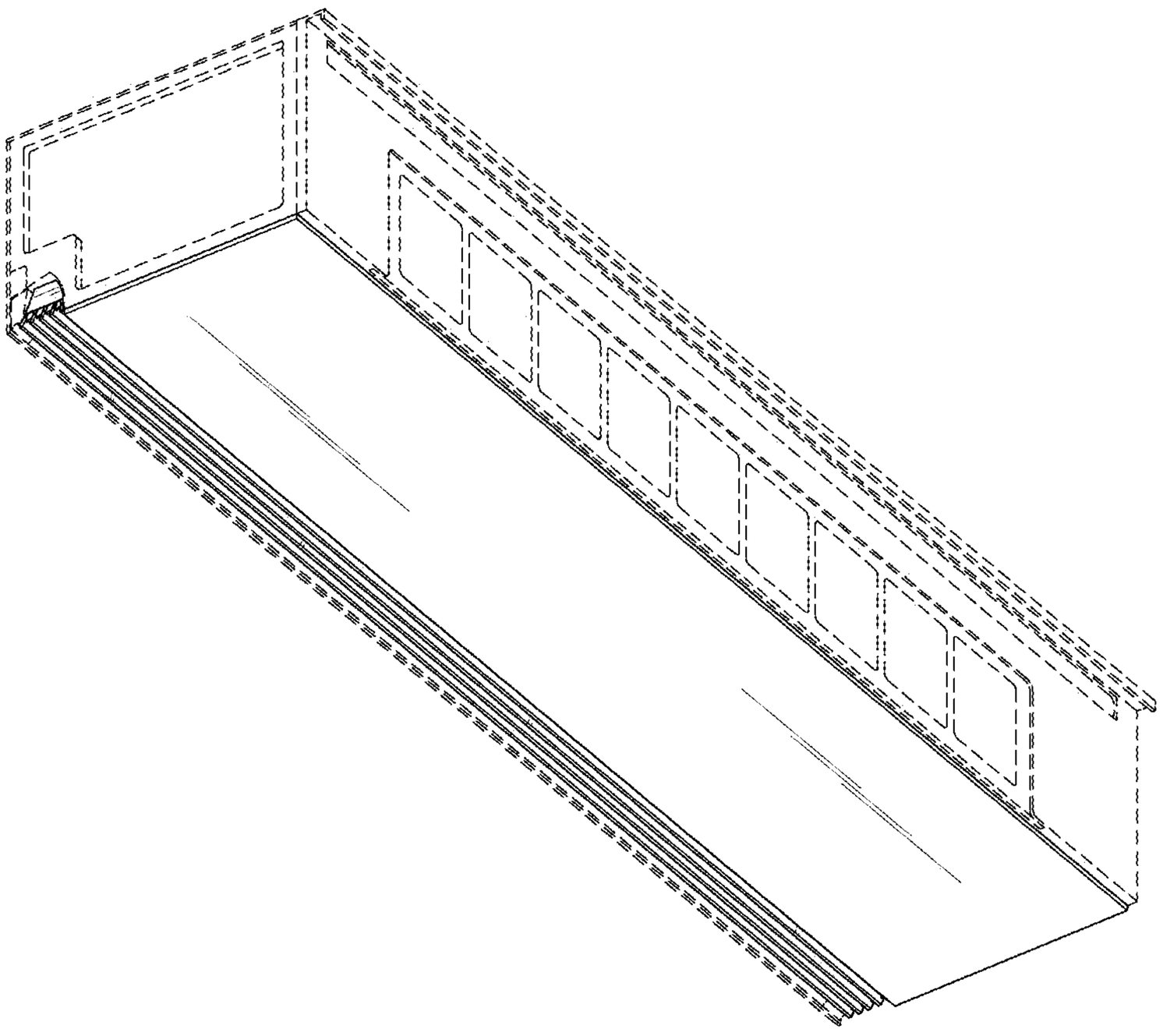

FIG. 3

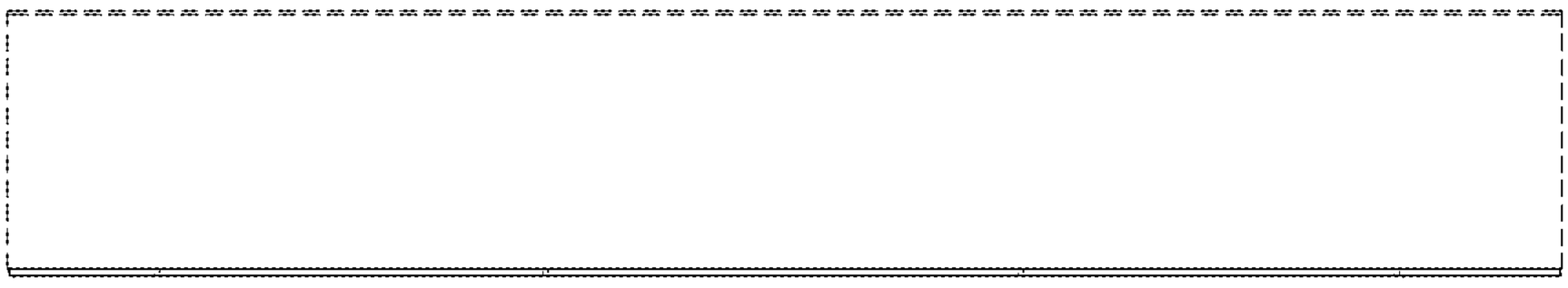

FIG. 4

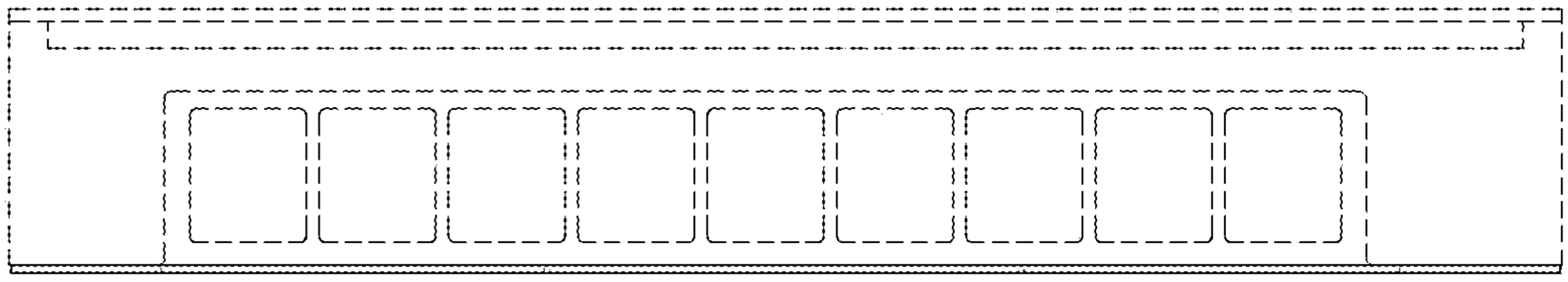

FIG. 5

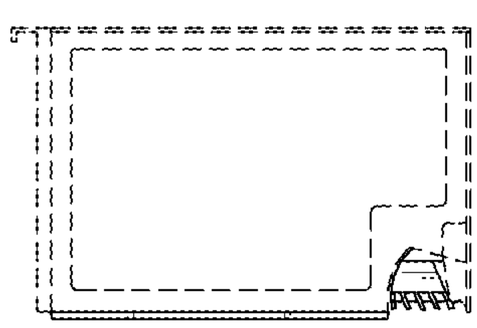

FIG. 6

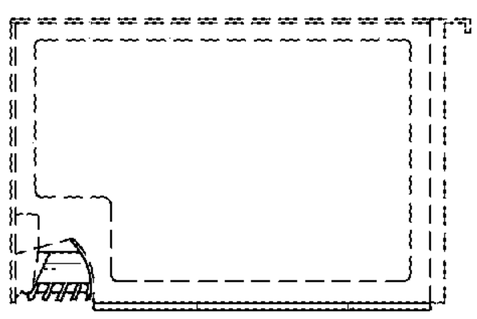

FIG. 7

FIG. 8

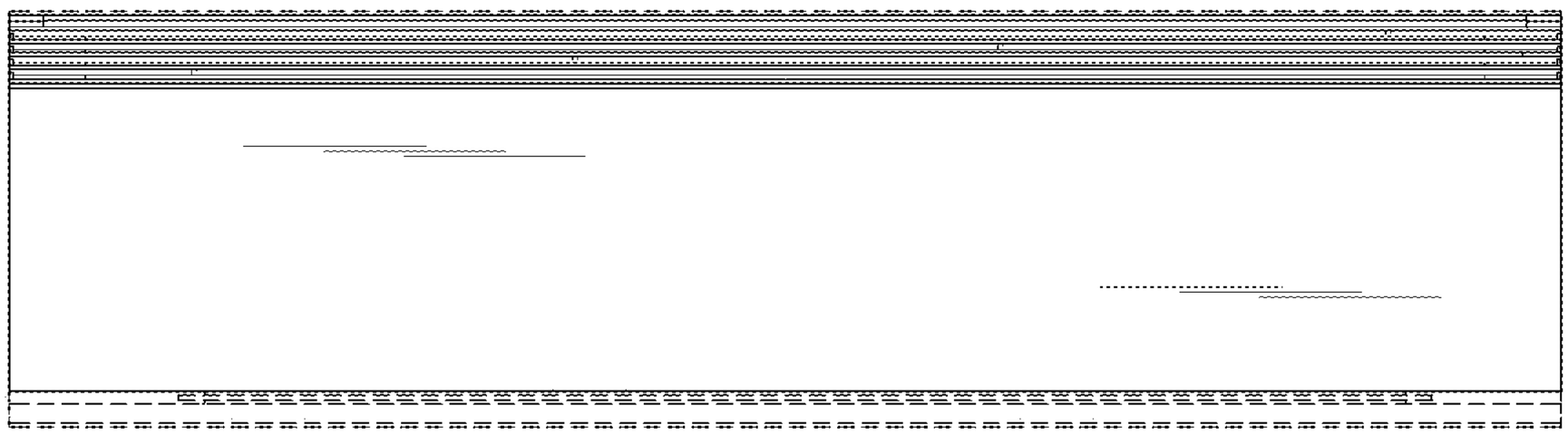

FIG. 9

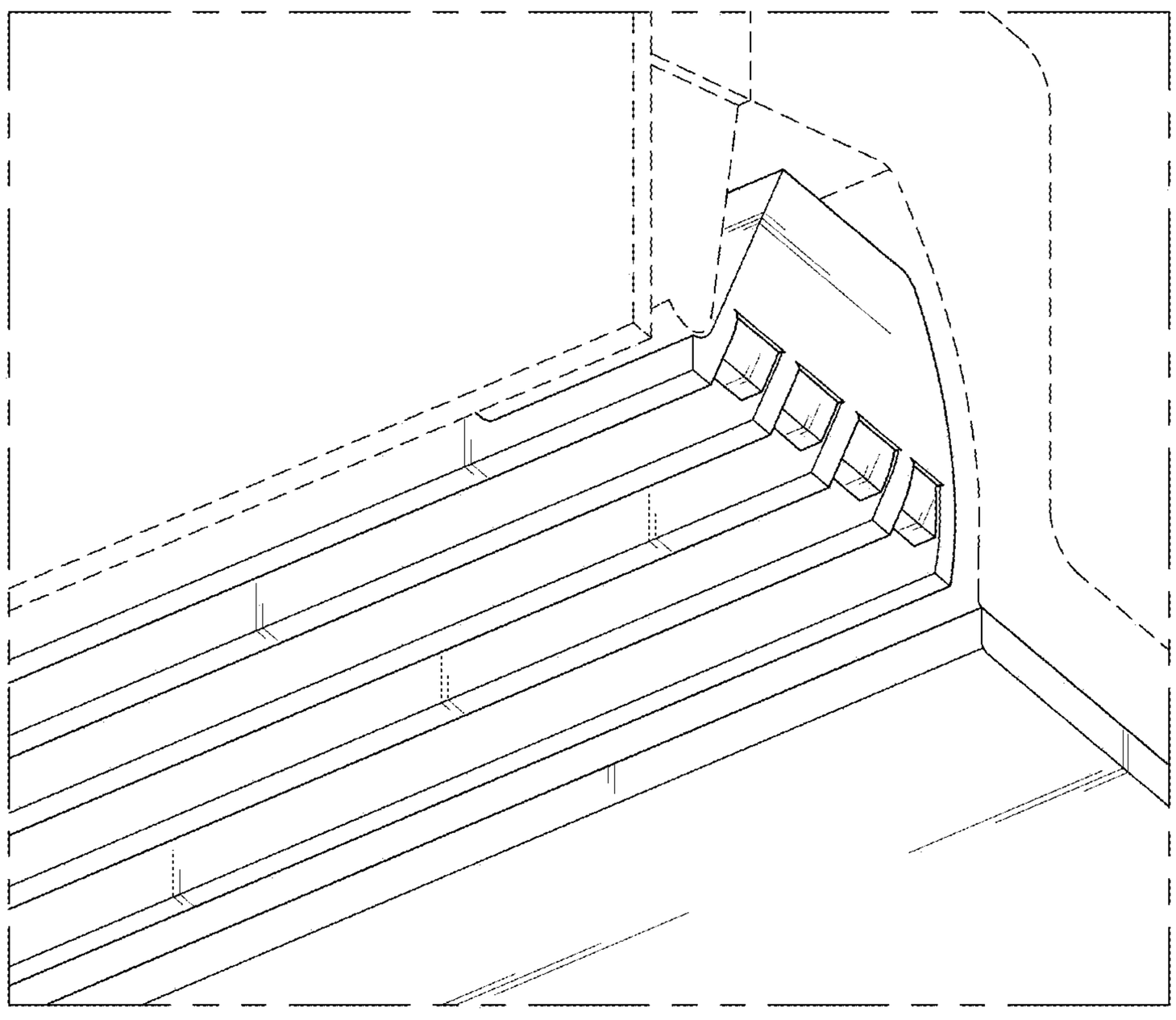

FIG. 10

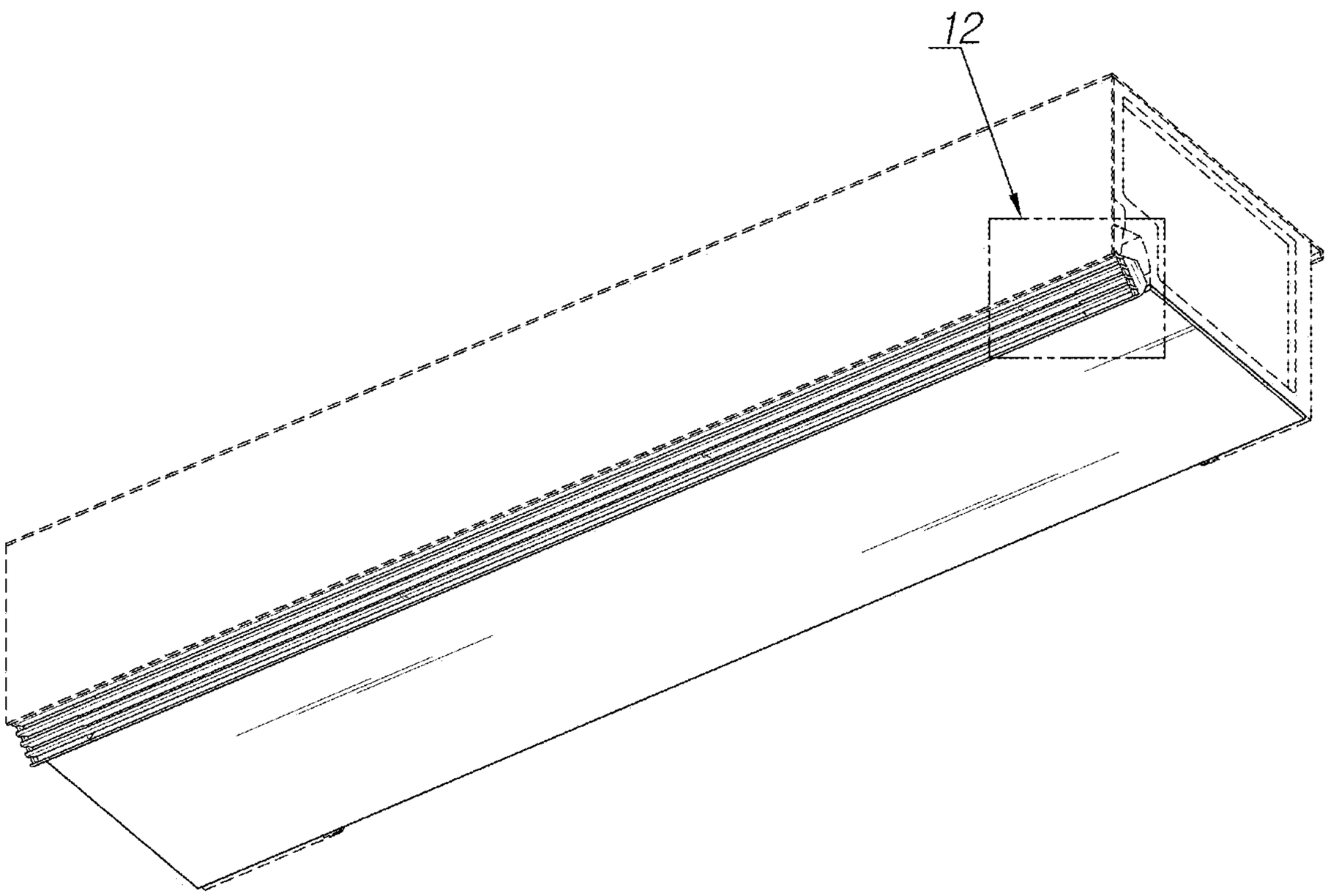

FIG. 11

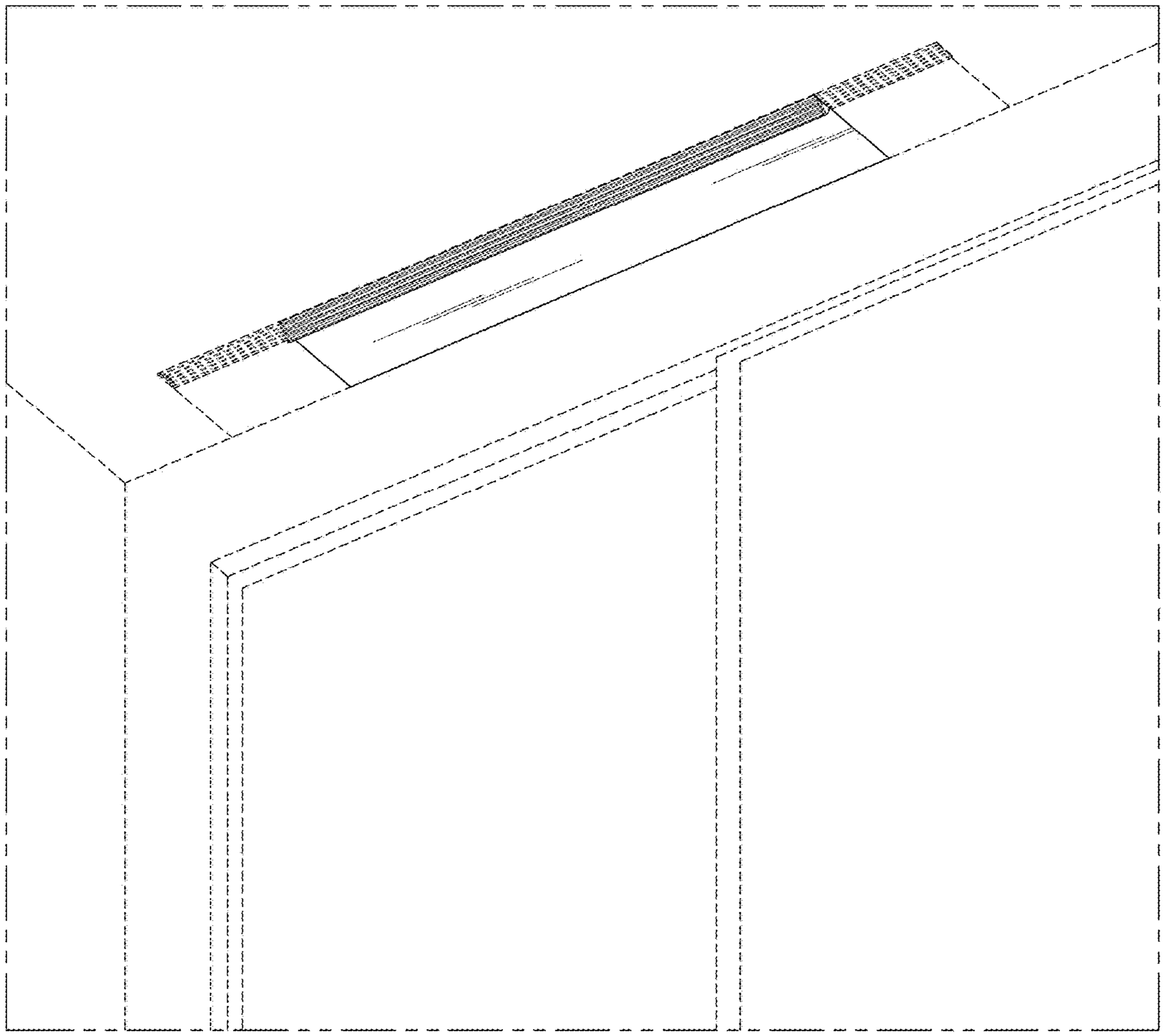

FIG. 12

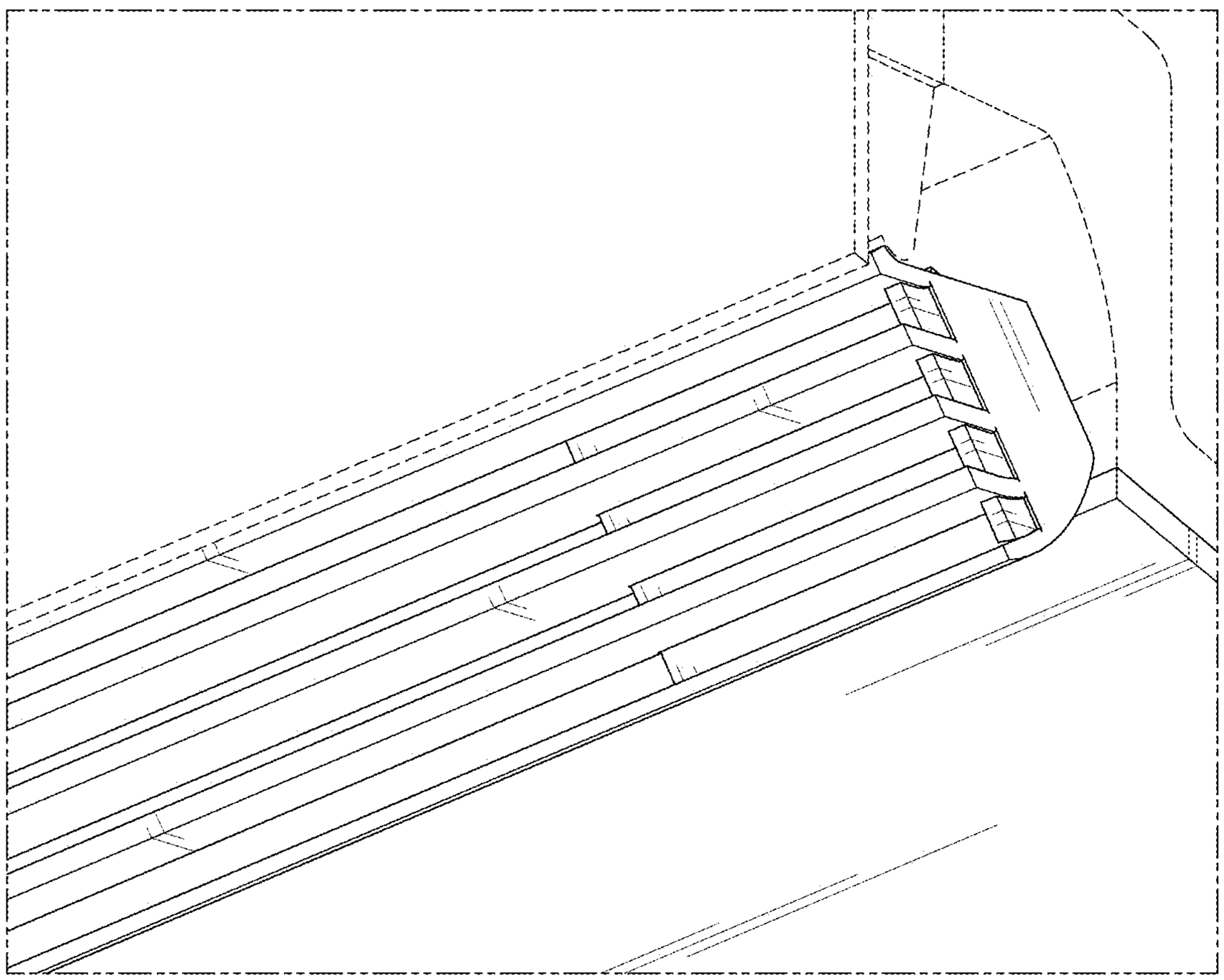

FIG. 13

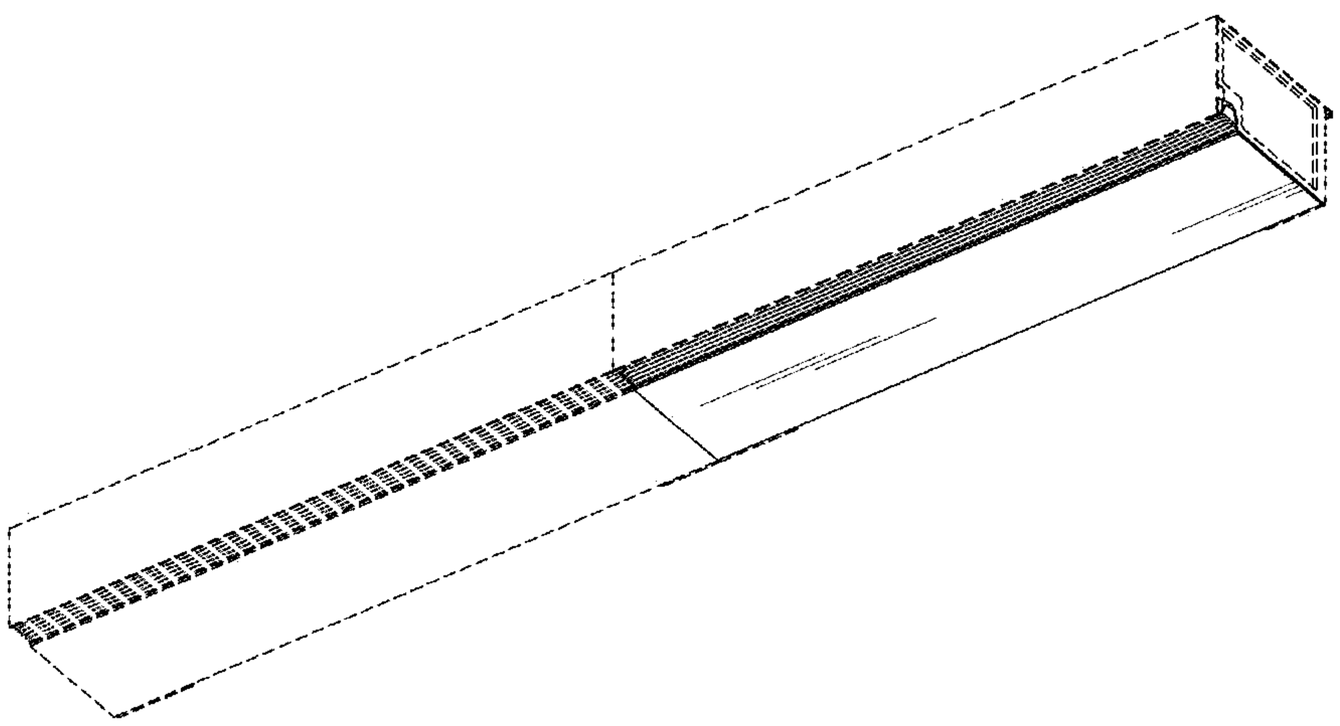

FIG. 14