



US0D1038182S

(12)

United States Design Patent

Hayashi

(10)

Patent No.:

US D1,038,182 S

(45)

Date of Patent:

** Aug. 6, 2024

(54)

REFRIGERATING APPARATUS

(71)

Applicant:

Hiroki Hayashi, Osaka (JP)

(72)

Inventor:

Hiroki Hayashi, Osaka (JP)

(73)

Assignee:

DAIKIN EUROPE N.V., Ostend (BE)

(**)

Term:

15 Years

(21)

Appl. No.:

29/886,912

(22)

Filed:

Mar. 15, 2023

(30)

Foreign Application Priority Data

Sep. 27, 2022

(EM)

009184849-0001

(51)

LOC (14) Cl.

15-07

(52)

U.S. Cl.

USPC D15/79

(58)

Field of Classification Search

USPC

D15/79-91

CPC

F25B 13/00; F25B 49/02; F25B 41/20; F25B 49/022; F25B 5/02; F25B 2400/13; F25B 45/00; F25B 1/10; F25B 39/02; F25B 2600/2513; F25B 25/005; F25B 2400/23; F25B 49/005; F25B 2339/047; F25B 2700/1933; F25B 1/00; F25B 40/00; F25B 39/04; F25B 2400/075; F25B 9/008; F25B 2700/1931; F25B 21/02; F25B 41/00; F25B 2600/0253; F25B 2700/21152; F25B 39/00; F25B 2700/2106; F25B 49/025; F25B 2700/21151; F25B 47/022; F25B 27/00; F25B 9/14; F25B 2309/061; F25B 7/00; F25B 2500/19; F25B 2500/01; F25B 2600/2501; F25B 2600/021; F25B 41/39; F25B 2400/16; F25B 15/10; F25B 40/02; F25B 2313/02741; F25B 2600/0251; F25B 21/00; F25B 49/027; F25B 41/24; F25B 31/002; F25B 2700/2104; F25B 31/004; F25B 43/006; F25B 30/02; F25B 2400/06; F25B 39/028; F25B 29/003; F25B 41/22; F25B 2313/0233; F25B 2700/21175; F25B 1/04; F25B 2600/111; F25B 43/02; F25B 2600/112; F25B 2400/22; F25B 15/06; F25B 5/04; F25B 2700/21163; F25B 9/006; F25B 2700/2117; F25B 6/04; F25B 2500/26; F25B 2700/195; F25B 41/335; F25B 2500/222; F25B 31/006; F25B 41/40; F25B 41/34; F25B 2600/2509; F25B 1/053; F25B 2400/0403; F25B 31/026; F25B 2400/0411; F25B 2313/0314; F25B 41/385; F25B 2500/18; F25B 2600/21; F25B 2345/001; F25B 43/003; F25B 9/145; F25B 43/00; F25B 21/04; F25B 2400/24; F25B 2700/04; F25B 2600/2519; F25B 6/02; F25B 9/002; F25B 2400/0409; F25B 2700/21174; F25B 5/00; F25B 27/02; F25B 2313/0231; F25B 2700/151; F25B 2345/002; F25B 9/06; F25B 31/00; F25B 2400/12; F25B 2600/2515; F25B 2313/0315; F25B 2700/21173; F25B 2700/197; F25B 47/025; F25B 31/02; F25B 2700/21161; F25B 2500/12; F25B 2341/0012; F25B 2400/01; F25B 47/02; F25B 2500/06; F25B 17/08; F25B 49/00; F25B 2400/121; F25B 2600/2511; F25B 2345/006; F25B 2600/2507; F25B 41/35; F25B 9/10; F25B 2700/02; F25B 2600/0261; F25B 2313/0272; F25B 23/006; F25B 2600/23; F25B 2500/13; F25B 2339/0242; F25B 2500/16; F25B 41/31; F25B 25/00; F25B 2313/006; F25B 33/00; F25B 40/04; F25B 2321/0251; F25B 2700/21171; F25B 2700/21172; F25B 2400/0401; F25B 2600/02; F25B 2700/15; F25B 2313/003; F25B 9/004; F25B 2600/01; F25B 31/008; F25B 2341/0683; F25B 1/005; F25B 2500/31; F25B 41/37; F25B 2309/06; F25B 2400/054; F25B 2341/0011; F25B 15/04; F25B 2600/07; F25B 39/022; F25B 41/42; F25B 1/047; F25B 2321/002; F25B 30/06; F25B 2400/19; F25B 2700/2116; F25B

2600/025; F25B 2339/041; F25B
2313/0294; F25B 2600/13; F25B 1/06;
F25B 2313/023; F25B 1/02; F25B
2313/0253; F25B 2321/0021; F25B
2400/14; F25B 2700/19; F25B 15/02;
F25B 29/00; F25B 17/00; F25B 9/02;
F25B 15/00; F25B 9/00; F25B 2400/05;
F25B 2345/003; F25B 39/026; F25B
25/02; F25B 2321/0022; F25B 37/00;
F25B 2600/11; F25B 2327/001; F25B
41/26; F25B 31/023; F25B 2400/04;
F25B 2400/052; F25B 27/007; F25B
11/02; F25B 49/043; F25B 2313/02732;
F25B 43/043; F25B 47/006; F25B
2500/07; F25B 2309/003; F25B
2321/023; F25B 2400/072; F25B
2700/21; F25B 41/315; F25B 2313/0293;
F25B 2600/17; F25B 2700/171; F25B
15/008; F25B 2400/02; F25B 2700/03;
F25B 23/00; F25B 17/083; F25B
2500/28; F25B 2500/27; F25B 49/046;
F25B 2313/0292; F25B 2600/05; F25B
41/30; F25B 41/33; F25B 2400/0751;
F25B 2341/0015; F25B 49/04; F25B
2700/2103; F25B 40/06; F25B 27/005;
F25B 1/08; F25B 29/006; F25B
2700/21162; F25B 2309/001; F25B
2500/24; F25B 2400/051; F25B
2321/0212; F25B 2321/0252; F25B
2600/024; F25B 35/04; F25B
2313/02742; F25B 19/005; F25B
2309/1408; F25B 43/046; F25B 2400/18;
F25B 2600/19; F25B 39/024; F25B
2313/007; F25B 2400/073; F25B 9/04;
F25B 41/38; F25B 2313/021; F25B
2700/13; F25B 2313/004; F25B
2315/001; F25B 2700/2115; F25B
2313/005; F25B 2500/05; F25B
2600/2523; F25B 2400/141; F25B
15/025; F25B 2341/0014; F25B 2400/07;
F25B 47/00; F25B 41/325; F25B
2700/11; F25B 2321/021; F25B
2500/221; F25B 17/02; F25B 2600/25;
F25B 30/04; F25B 19/00; F25B 41/347;
F25B 2309/1418; F25B 2341/063; F25B
2400/053; F25B 2400/061; F25B
2500/08; F25B 2600/2521; F25B 27/002;
F25B 3/00; F25B 2339/023; F25B
2341/0013; F25B 2600/0271; F25B
41/345; F25B 2321/001; F25B 2347/021;
F25B 2321/0023; F25B 9/08; F25B
2700/193; F25B 11/00; F25B 2333/003;
F25B 6/00; F25B 2309/1407; F25B
2700/191; F25B 2313/025; F25B
2313/02743; F25B 2341/062; F25B
2400/074; F25B 2400/077; F25B
2400/03; F25B 2600/026; F25B
2339/044; F25B 2600/0272; F25B
2339/046; F25B 2400/17; F25B
2345/0052; F25B 2309/1424; F25B
2700/172; F25B 2313/02731; F25B
2313/009; F25B 2313/02791; F25B
2345/007; F25B 2400/071; F25B
2500/09; F25B 2500/23; F25B 41/45;
F25B 47/003; F25B 2600/0262; F25B

2339/0441; F25B 2309/1428; F25B
2339/02; F25B 43/04; F25B 2309/1411;
F25B 2313/02331; F25B 2313/0312;
F25B 2400/21; F25B 2600/0252; F25B
30/00; F25B 2339/04; F25B 2400/0415;
F25B 2309/1413; F25B 2309/14241;
F25B 2321/025; F25B 2339/043; F25B
2341/06; F25B 2700/173; F25B
2700/2102; F25B 9/12; F25B 2347/02;
F25B 2500/22; F25B 11/04; F25B
2400/0417; F25B 2700/21155; F25B
2339/024; F25B 2500/29; F25B 23/003;
F25B 2309/006; F25B 2313/002; F25B
2313/0232; F25B 2313/0251; F25B
2313/02533; F25B 2345/004; F25B
2700/2111; F25B 2400/15; F25B
2700/1351; F25B 2309/1415; F25B
2313/0252; F25B 2313/0313; F25B
2500/15; F25B 2313/02334; F25B
2341/0681; F25B 2327/00; F25B
2339/0446; F25B 2700/2108; F25B
2700/21156; F25B 2309/1421; F25B
2500/04; F25B 17/12; F25B 2339/021;
F25B 2600/2503; F25B 2700/2101; F25B
2313/0311; F25B 2315/002; F25B
41/006; F25B 2309/1412; F25B 2500/17;
F25B 17/086; F25B 2309/022; F25B
2700/133; F25B 2313/0254; F25B
15/006; F25B 2313/0234; F25B 41/355;
F25B 2309/1403; F25B 2400/0407; F25B
2600/2525; F25B 47/027; F25B
2313/029; F25B 2321/0211; F25B
2700/00; F25B 2700/21157; F25B
2313/008; F25B 2600/027; F25B
2700/2105; F25B 15/002; F25B 15/14;
F25B 2321/003; F25B 2341/0016; F25B
2400/08; F25B 2400/0405; F25B
2600/2517; F25B 2309/1406; F25B
2400/161; F25B 2300/00; F25B
2309/1423; F25B 2313/02541; F25B
2500/02; F25B 2600/023; F25B
2700/111; F25B 2313/027; F25B 41/48;
F25B 2309/14181; F25B 2309/1425;
F25B 2600/022; F25B 2700/2109; F25B
2309/002; F25B 2313/02531; F25B
2339/0444; F25B 2345/005; F25B 41/28;
F25B 2500/11; F25B 2313/02343; F25B
2313/02344; F25B 2333/005; F25D
23/028; F25D 29/00; F25D 17/065; F25D
11/02; F25D 2700/12; F25D 25/025;
F25D 11/003; F25D 23/02; F25D 29/005;
F25D 2700/02; F25D 11/00; F25D
23/126; F25D 29/003; F25D 17/06; F25D
17/02; F25D 21/14; F25D 17/045; F25D
23/12; F25D 23/04; F25D 17/042; F25D
2323/021; F25D 2400/04; F25D 31/002;
F25D 11/022; F25D 21/04; F25D
2400/361; F25D 16/00; F25D 2201/14;
F25D 27/00; F25D 3/08; F25D 2400/06;
F25D 21/08; F25D 23/006; F25D
2331/803; F25D 2317/061; F25D
2400/36; F25D 17/062; F25D 23/003;
F25D 2500/02; F25D 19/006; F25D
31/007; F25D 25/02; F25D 17/067; F25D
2317/067; F25D 23/062; F25D 23/066;

F25D 2323/024; F25D 23/025; F25D 23/067; F25D 2400/40; F25D 31/005; F25D 23/00; F25D 19/00; F25D 2400/02; F25D 25/04; F25D 2323/023; F25D 21/006; F25D 23/065; F25D 2400/30; F25D 2700/122; F25D 27/005; F25D 15/00; F25D 2700/14; F25D 2400/28; F25D 29/008; F25D 21/002; F25D 23/069; F25D 21/02; F25D 23/061; F25D 2317/0682; F25D 2331/805; F25D 23/021; F25D 23/063; F25D 2700/16; F25D 11/006; F25D 2317/0665; F25D 2331/804; F25D 31/006; F25D 23/087; F25D 2400/10; F25D 3/10; F25D 3/06; F25D 2700/06; F25D 2500/06; F25D 11/027; F25D 11/025; F25D 23/10; F25D 2700/04; F25D 19/003; F25D 2400/18; F25D 25/00; F25D 29/001; F25D 2317/063; F25D 17/08; F25D 2317/0681; F25D 2700/121; F25D 31/00; F25D 23/064; F25D 17/04; F25D 2600/02; F25D 25/005; F25D 31/003; F25D 23/06; F25D 3/12; F25D 2400/16; F25D 21/008; F25D 2317/0683; F25D 2700/10; F25D 3/105; F25D 2400/38; F25D 21/06; F25D 2317/0666; F25D 19/02; F25D 2700/123; F25D 2317/062; F25D 3/125; F25D 2331/809; F25D 11/04; F25D 23/085; F25D 21/12; F25D 2325/021; F25D 2317/0651; F25D 3/11; F25D 2317/0661; F25D 2323/121; F25D 2400/12; F25D 2323/122; F25D 17/005; F25D 25/024; F25D 2201/10; F25D 25/021; F25D 2600/06; F25D 2700/08; F25D 2303/081; F25D 2325/022; F25D 29/006; F25D 2317/0655; F25D 2600/04; F25D 2303/0831; F25D 13/067; F25D 2201/126; F25D 3/00; F25D 2303/0843; F25D 2317/04131; F25D 2500/04; F25D 2317/0653; F25D 2400/08; F25D 3/107; F25D 2317/0417; F25D 2317/0672; F25D 3/04; F25D 25/028; F25D 13/00; F25D 2303/082; F25D 2303/0845; F25D 23/082; F25D 2303/085; F25D 2321/146; F25D 13/06; F25D 2327/001; F25D 21/125; F25D 17/047; F25D 2700/00; F25D 2323/00264; F25D 2317/043; F25D 3/005; F25D 23/068; F25D 3/02; F25D 21/004; F25D 2201/12; F25D 2303/0844; F25D 25/027; F25D 2317/041; F25D 2317/0664; F25D 2331/806; F25D 19/04; F25D 13/02; F25D 25/022; F25D 3/14; F25D 2303/08222; F25D 2303/0822; F25D 2317/0654; F25D 13/04; F25D 23/026; F25D 2317/0413; F25D 2323/02; F25D 2400/20; F25D 2317/0671; F25D 1/00; F25D 2400/14; F25D 2400/32; F25D 2600/00; F25D 5/02; F25D

2331/801; F25D 2331/808; F25D 17/00; F25D 3/102; F25D 23/023; F25D 7/00; F25D 2321/1412; F25D 2321/1441; F25D 2325/023; F25D 3/122; F25D 2317/0411; F25D 2400/22; F25D 2303/0841; F25D 2323/00271; F25D 2331/812; F25D 2317/0684; F25D 2331/802; F25D 2321/1411; F25D 21/10; F25D 23/08; F25D 2323/0021; F25D 2303/0832; F25D 5/00; F25D 13/065; F25D 2300/00; F25D 2323/00274; F25D 31/001; F25D 2317/0415; F25D 2321/1442; F25D 2323/0011; F25D 2323/00261; F25D 21/025; F25D 2303/08221; F25D 2317/0416; F25D 2331/81; F25D 2323/061; F25D 21/00; F25D 2321/1413; F25D 2400/34; F25D 31/008; F25D 2321/142; F25D 2321/143; F25D 2400/26; F25D 2317/068; F25D 2317/04111; F25D 2323/00272; F25D 2201/1262; F25D 13/062; F25D 2331/8014; F25D 1/02; F25D 2321/145; F25D 9/00; F25D 3/127

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D991,987	S	*	7/2023	Otake		D15/80
D1,017,651	S	*	3/2024	Pape		B65G 1/04 D15/79
D1,019,716	S	*	3/2024	Wang		D15/80
D1,023,075	S	*	4/2024	Rong		D15/80
D1,025,140	S	*	4/2024	Chen		D15/79

* cited by examiner

Primary Examiner — Khawaja Anwar

(74) *Attorney, Agent, or Firm* — HAUPTMAN HAM, LLP

(57)

CLAIM

The ornamental design for a refrigerating apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a refrigerating apparatus showing my new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom view thereof.

The broken lines depict portions of the refrigerating apparatus that form no part of claimed design.

1 Claim, 7 Drawing Sheets

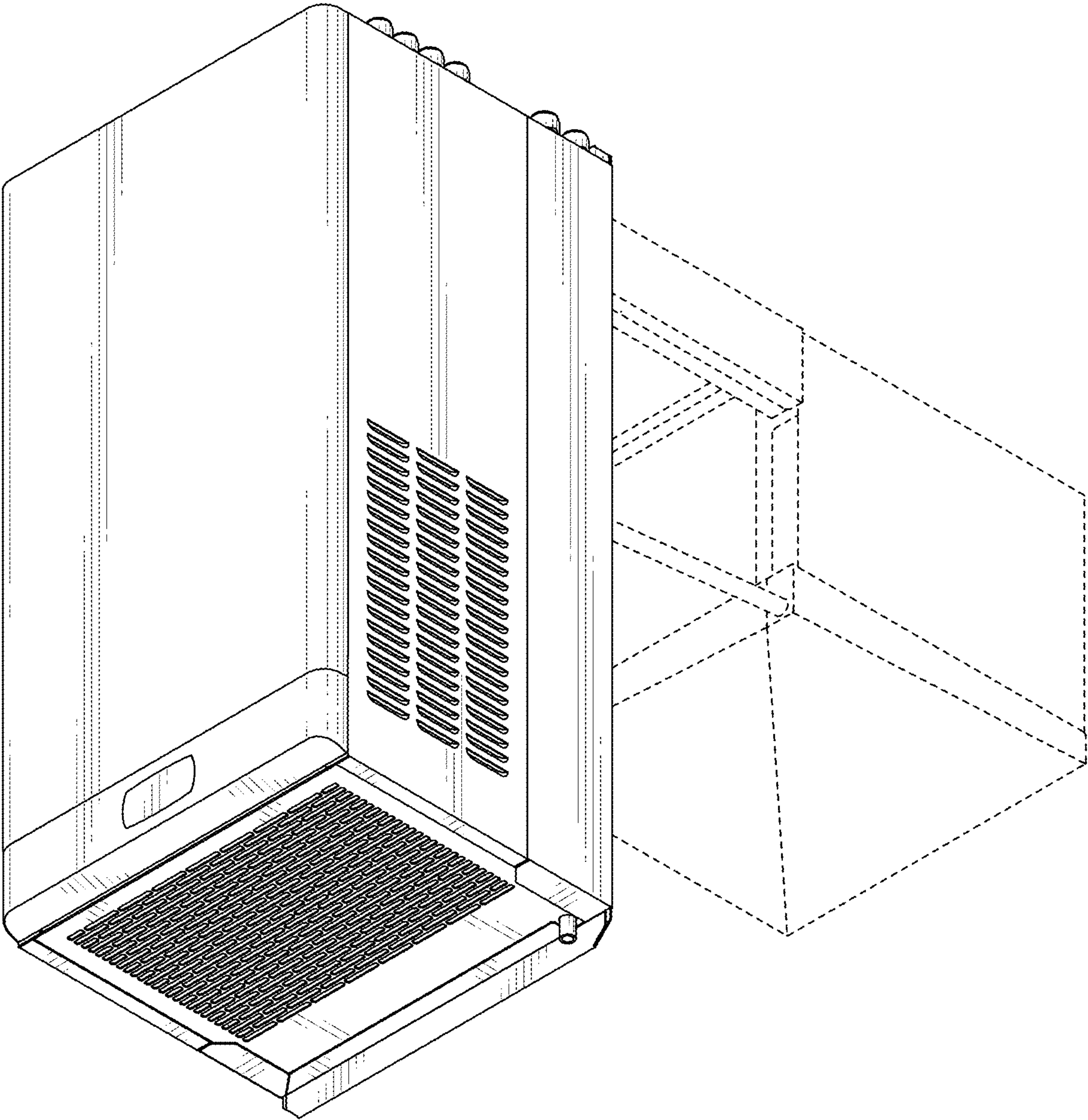


FIG. 1

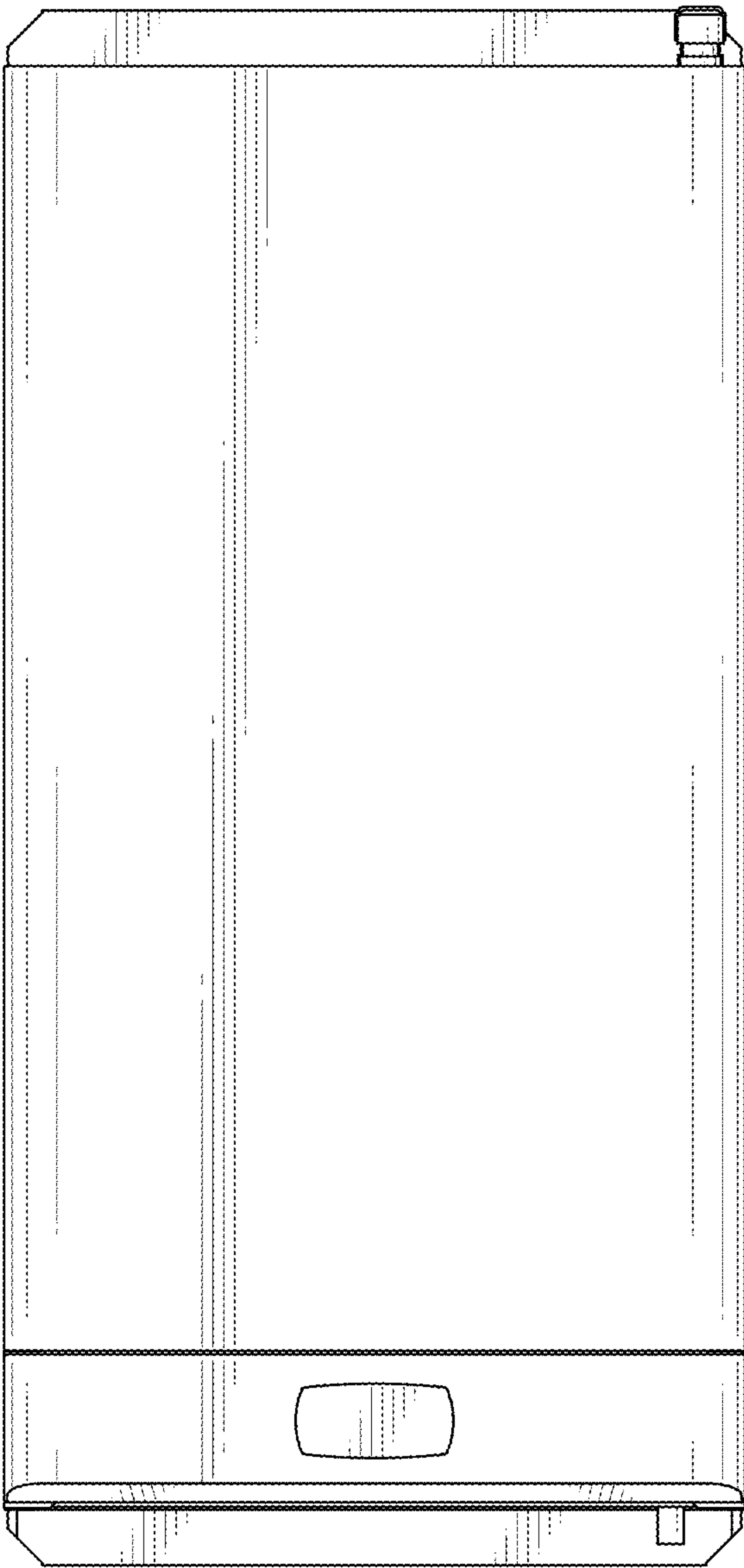


FIG. 2

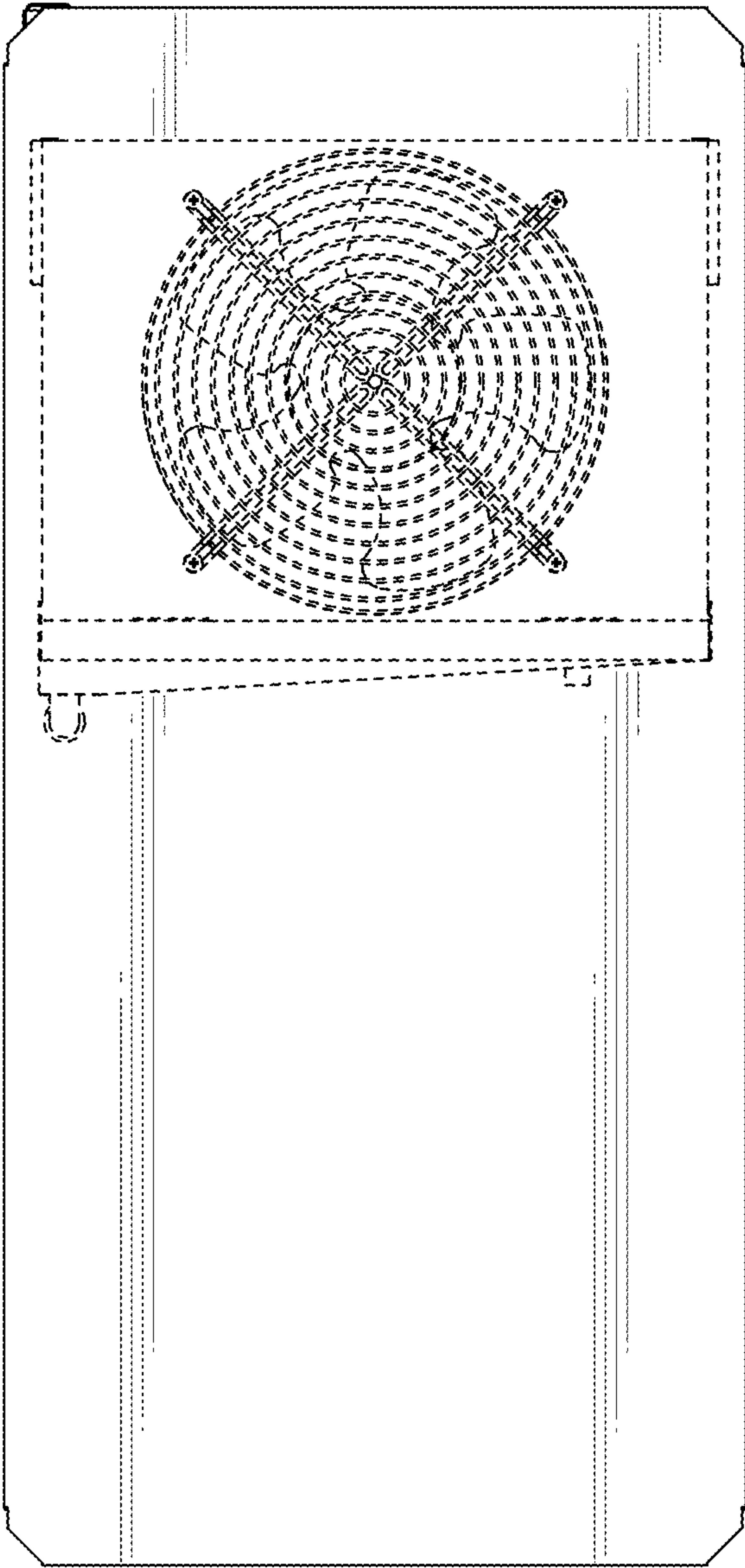


FIG. 3

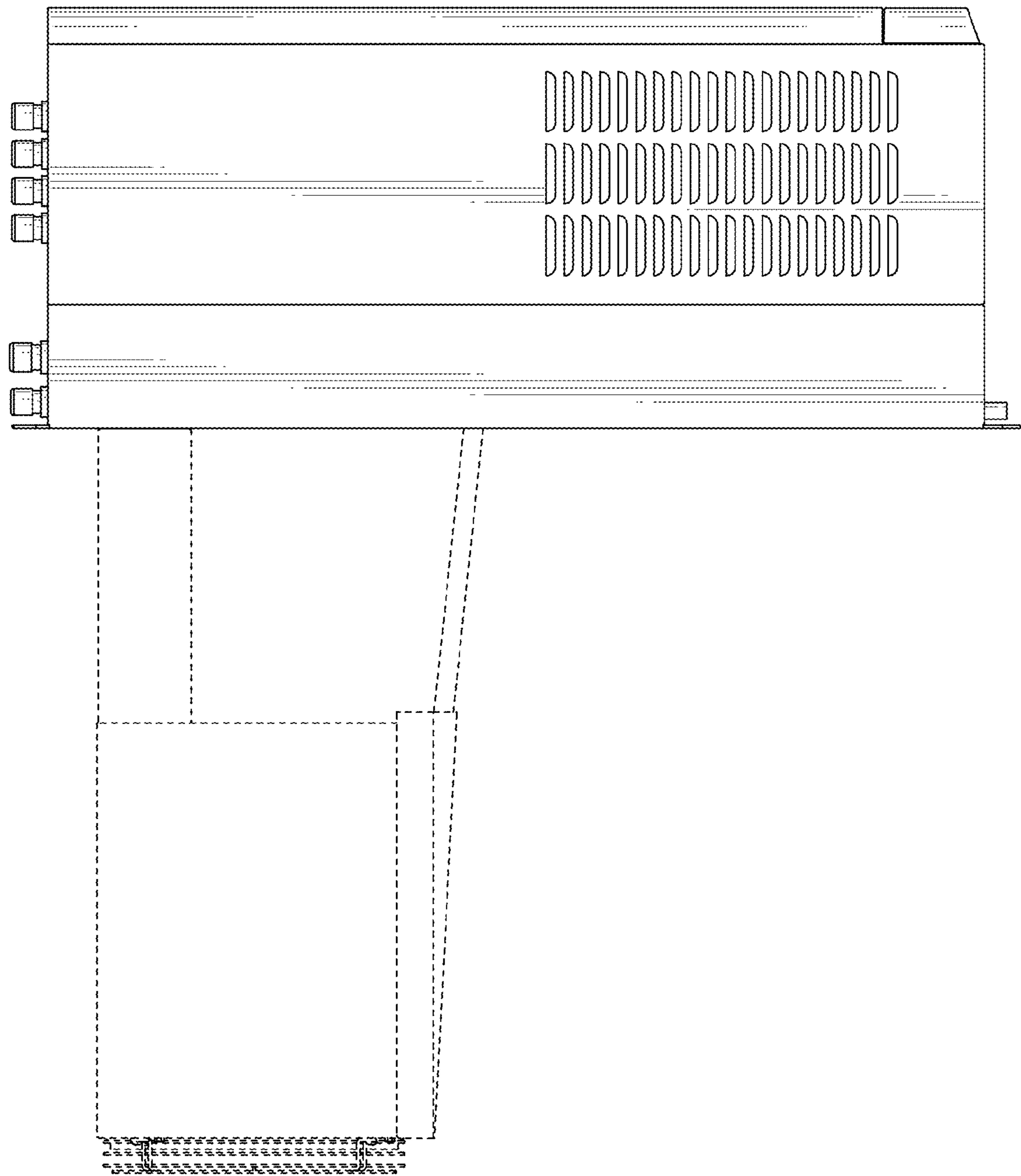


FIG. 4

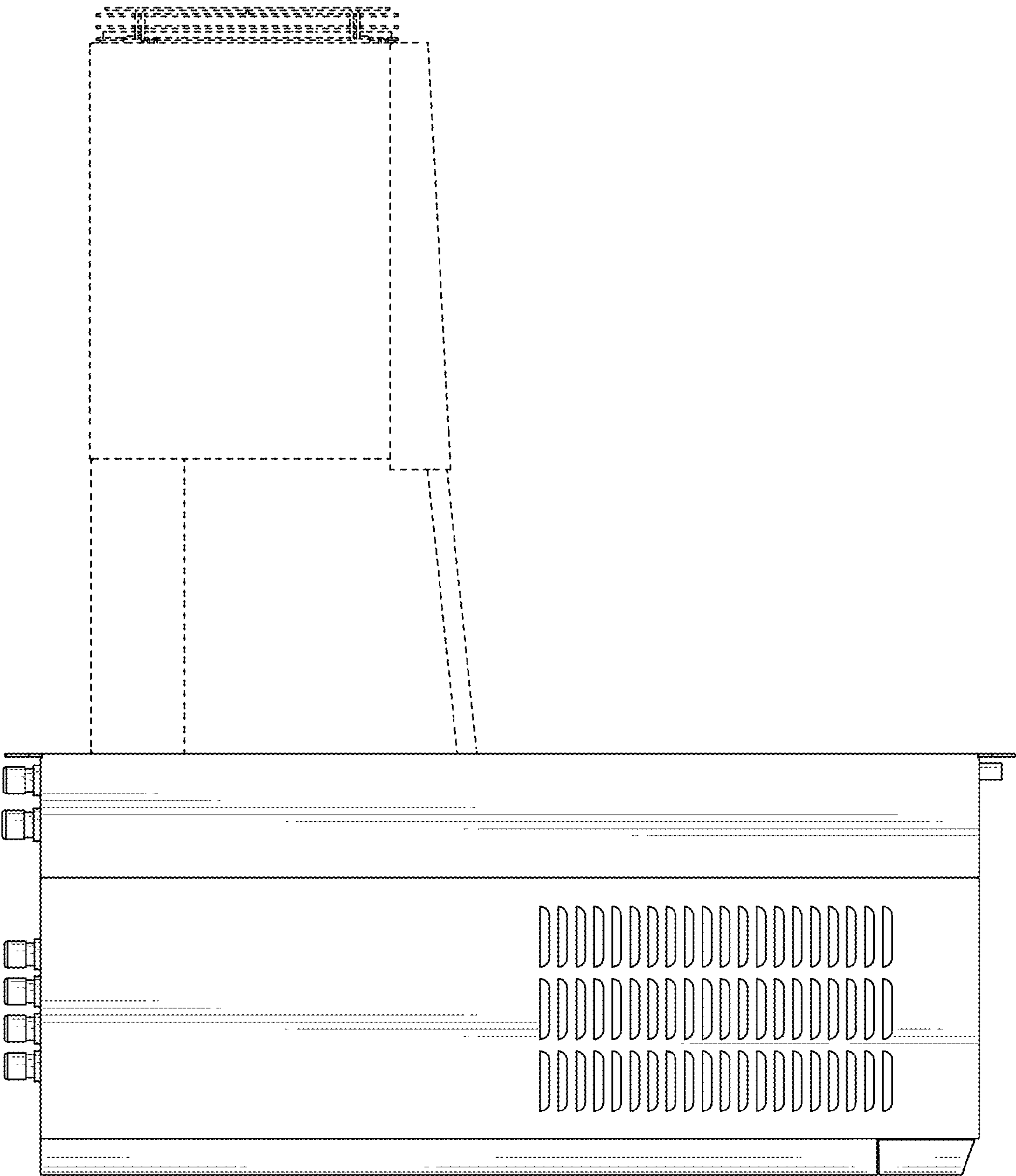


FIG. 5

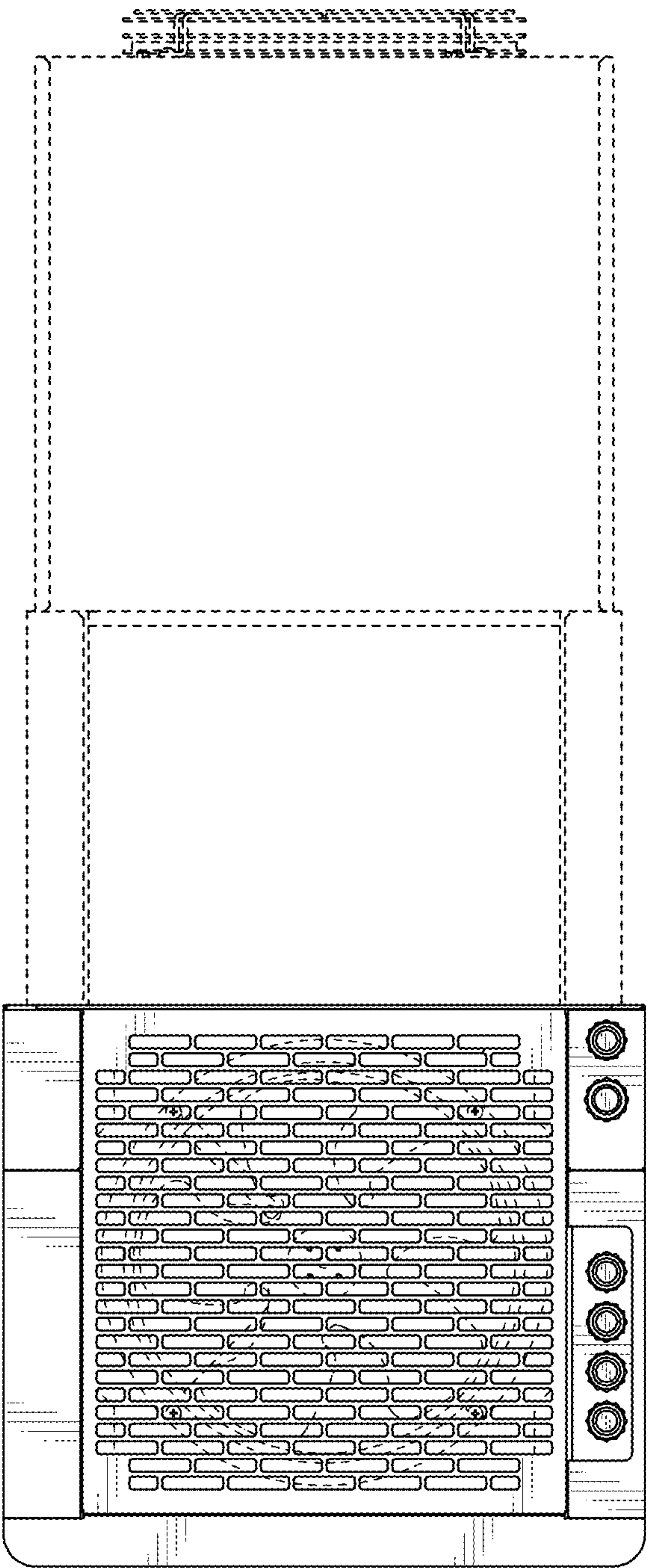


FIG. 6

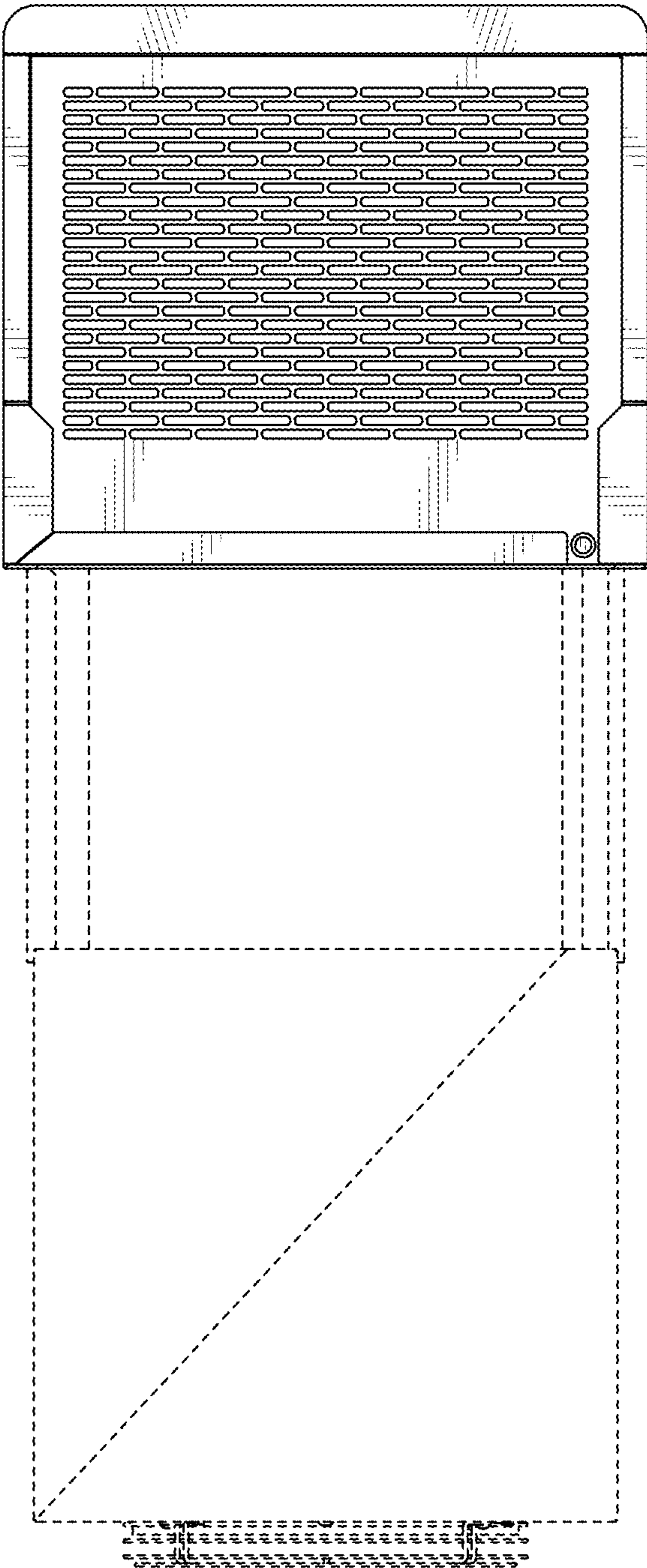


FIG. 7