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(12) **United States Design Patent**
Ryu et al.

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(54) **REFRIGERATOR**

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

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

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**
USPC **D15/91**

(58) **Field of Classification Search**

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CPC F25D 23/028; F25D 29/00; F25D 11/02;

F25D 23/02; F25D 25/025; F25D 17/065;

F25D 29/005; F25D 23/04; F25D 11/00;

F25D 23/126; F25D 25/02; F25D 23/12;

F25D 17/045; F25D 2700/12; F25D

2700/02; F25D 2400/04; F25D 21/14;

F25D 2323/024; F25D 2400/361; F25D

2323/021; F25D 17/042; F25D 2400/06;

F25D 2331/803; F25D 2400/36; F25D

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F25D 2317/067; F25D 23/00; F25D

17/062; F25D 2500/02; F25D 23/062;

F25D 23/067; F25D 11/022; F25D 21/04;

F25D 23/003; F25D 23/006; F25D

2400/40; F25D 23/025; F25D 21/08;

F25D 23/065; F25D 2323/023; F25D

29/003; F25D 23/087; F25D 2500/06;

F25D 19/00; F25D 23/066; F25D 17/06;

F25D 23/10; F25D 17/08; F25D 2400/18;
F25D 2325/021; F25D 25/024; F25D
2700/14; F25D 2317/0682; F25D 23/06;
F25D 2400/28; F25D 3/08; F25D
2400/02; F25D 23/021; F25D 23/069;
F25D 25/04; F25D 2700/122; F25D
19/006; F25D 27/005; F25D 2317/0665;
F25D 2700/06; F25D 2323/122; F25D
2317/0681; F25D 2400/30; F25D 31/007;
F25D 17/067; F25D 2331/809; F25D
2600/06; F25D 23/064; F25D 2317/062;
F25D 31/005; F25D 29/008; F25D 25/00;
F25D 23/063; F25D

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D486,163 S * 2/2004 Seok D15/81

D546,843 S * 7/2007 Knoell D15/87

(Continued)

Primary Examiner — Khawaja Anwar

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(57) **CLAIM**

The ornamental design for a refrigerator, as shown and described.

DESCRIPTION

FIG. 1 is a front, right, top perspective view of a refrigerator showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

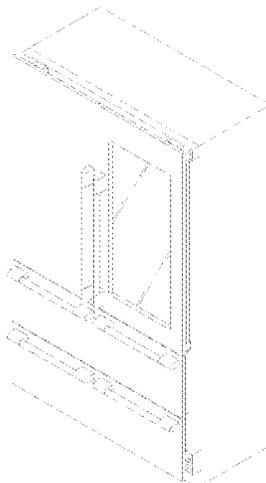
FIG. 5 is a right side view thereof;

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

FIG. 7 is a bottom plan view thereof.

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

1 Claim, 7 Drawing Sheets



(58) **Field of Classification Search**

CPC .. 17/04; F25D 23/085; F25D 2325/022; F25D 2600/02; F25D 23/061; F25D 3/04; F25D 17/02; F25D 2700/04; F25D 2700/121; F25D 25/005; F25D 2331/805; F25D 2400/16; F25D 2317/063; F25D 2317/0653; F25D 2323/121; F25D 2317/0672; F25D 25/021; F25D 2323/02; F25D 2400/10; F25D 2321/146; F25D 21/006; F25D 2700/08; F25D 2700/123; F25D 2317/0666; F25D 25/027; F25D 2317/0683; F25D 11/006; F25D 21/002; F25D 11/003; F25D 3/06; F25D 2700/16; F25D 23/082; F25D 31/002; F25D 16/00; F25D 2201/126; F25D 2325/023; F25D 2700/10; F25D 11/025; F25D 2317/0413; F25D 2331/804; F25D 29/006; F25D 2201/10; F25D 21/02; F25D 2400/08; F25D 21/06; F25D 2331/807; F25D 2317/043; F25D 25/022; F25D 2317/0664; F25D 2317/04131; F25D 19/02; F25D 2317/0415; F25D 2317/041; F25D 21/008; F25D 2400/38; F25D 17/047; F25D 2323/00264; F25D 2317/0655; F25D 2317/0417; F25D 2321/1411; F25D 2321/1412; F25D 2321/1442; F25D 2201/12; F25D 15/00; F25D 2400/12; F25D 2317/0661; F25D 23/08; F25D 25/028; F25D 11/027; F25D 2317/0651; F25D 2400/32; F25D 2327/001; F25D 23/068; F25D 2317/0671; F25D 2321/1441; F25D 2500/04; F25D 23/026; F25D 2303/081; F25D 2700/00; F25D 21/004; F25D 2323/0011; F25D 21/12; F25D 31/006; F25D 2600/04; F25D 2400/22; F25D 19/003; F25D 13/00; F25D 2323/0021; F25D 3/00; F25D 2321/143; F25D 31/00; F25D 2331/806; F25D 2323/00271; F25D 2303/0831; F25D 2317/0416; F25D 2303/0843; F25D 11/04; F25D 2323/022; F25D 2317/0411; F25D 3/10; F25D 19/04; F25D 23/023; F25D 2323/00261; F25D 2317/0654; F25D 2303/082; F25D 3/02; F25D 2323/00274; F25D 7/00; F25D 2303/08222; F25D 2303/0845; F25D 2331/808; F25D 2201/30; F25D 2303/0822; F25D 2303/085; F25D 29/001; F25D 2323/00272; F25D 2600/00; F25D 2317/068; F25D 2331/812; F25D 2321/1413; F25D 2331/801; F25D 2303/0841; F25D 2400/14; F25D 3/12; F25D 2400/34;

F25D 3/125; F25D 2323/0024; F25D 2323/00266; F25D 2331/81; F25D 2317/066; F25D 2321/147; F25D 2317/0662; F25D 2201/122; F25D 31/003; F25D 1/00; F25D 2317/0684; F25D 13/04; F25D 13/02; F25D 17/005; F25D 2201/1262; F25D 3/045; F25D 2303/0844; F25D 2321/142; F25D 2300/00; F25D 2321/145; F25D 3/11; F25D 3/107; F25D 2317/0663; F25D 2201/124; F25D 23/123; F25D 2317/04111; F25D 3/005; F25D 2317/04; F25D 2323/00281; F25D 1/02; F25D 2323/00282; F25D 2303/08221; F25D 3/122; F25D 5/02; F25D 21/125; F25D 17/00; F25D 2331/802; F25D 2323/0022; F25D 2321/144; F25D 13/067; F25D 2323/061; F25D 2400/20; F25D 2317/06; F25D 13/06; F25D 3/105; F25D 2325/00; F25D 2317/0667; F25D 2323/00275; F25D 21/00; F25D 2323/0023; F25D 2201/1282; F25D 2323/00267; F25D 2201/00; F25D 2400/26; F25D 3/14; F25D 2323/00265; F25D 2323/00277; F25D 2303/0842; F25D 2303/0832; F25D 2327/00; F25D 21/10; F25D 2323/06; F25D 2400/24; F25D 21/065; F25D 2201/128; F25D 2321/141; F25D 2323/00276; F25D 5/00

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D602,051	S	*	10/2009	Yalcin	.....	D15/87
D615,567	S	*	5/2010	Baker	.....	D15/91
D807,409	S	*	1/2018	Onrat	.....	D15/85
D835,688	S	*	12/2018	Lee	.....	D15/85
D836,683	S	*	12/2018	Jeon	.....	D15/86
D847,875	S	*	5/2019	Kim	.....	D15/85
D939,597	S	*	12/2021	Xie	.....	F25D 25/025 D15/86
D952,705	S	*	5/2022	Yoon	.....	D15/91
D952,706	S	*	5/2022	Lee	.....	D15/91
D952,707	S	*	5/2022	Lee	.....	D15/91
D952,708	S	*	5/2022	Lee	.....	D15/91
D952,709	S	*	5/2022	Lee	.....	D15/91
D962,307	S	*	8/2022	Han	.....	D15/86
D962,308	S	*	8/2022	Han	.....	D15/86
D962,309	S	*	8/2022	Han	.....	D15/86
D962,310	S	*	8/2022	Cho	.....	D15/86
D962,313	S	*	8/2022	Han	.....	D15/86
D963,007	S	*	9/2022	Choi	.....	D15/89
D965,649	S	*	10/2022	Choi	.....	D15/89
D972,608	S	*	12/2022	Yoon	.....	D15/91

* cited by examiner

FIG. 1

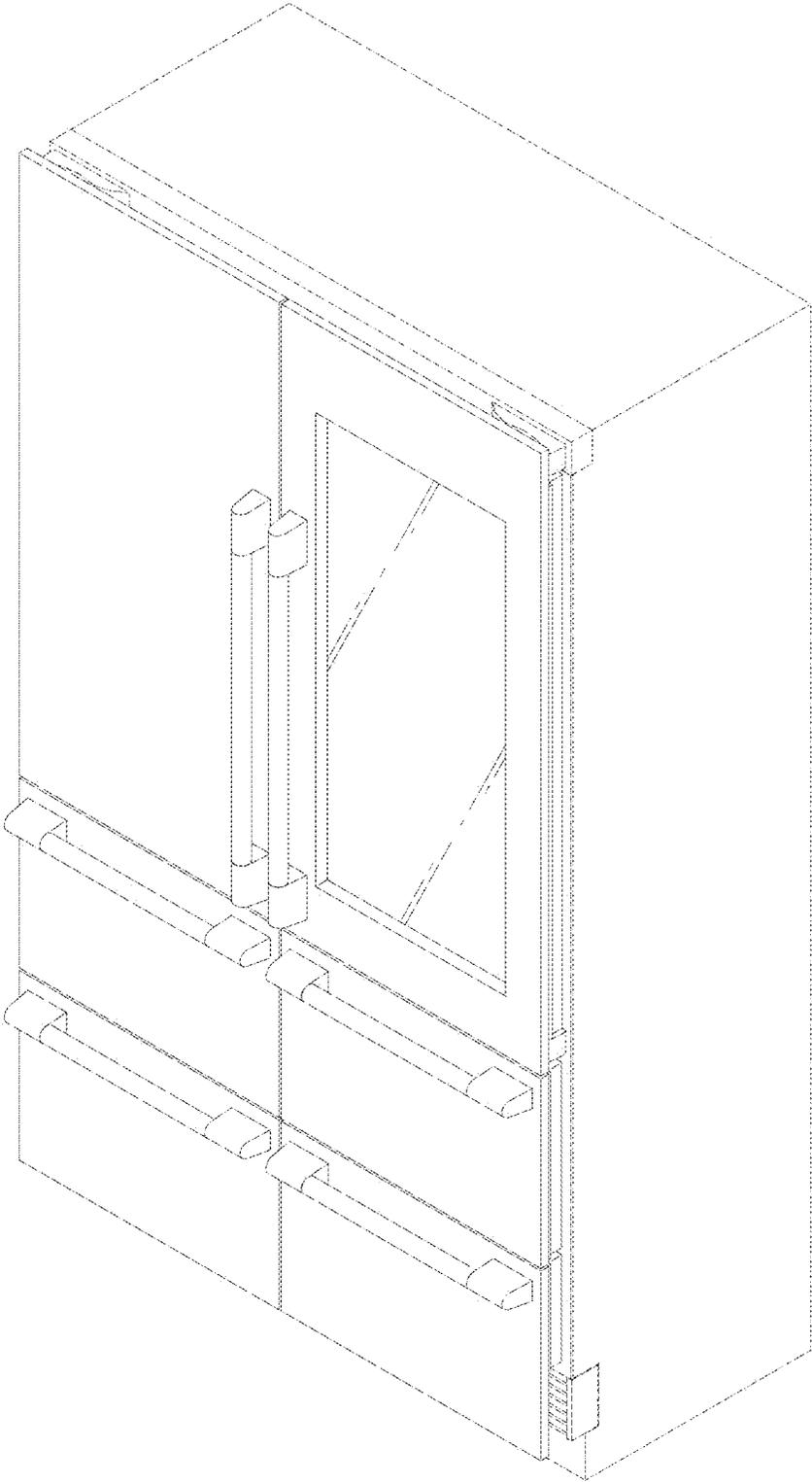


FIG. 2

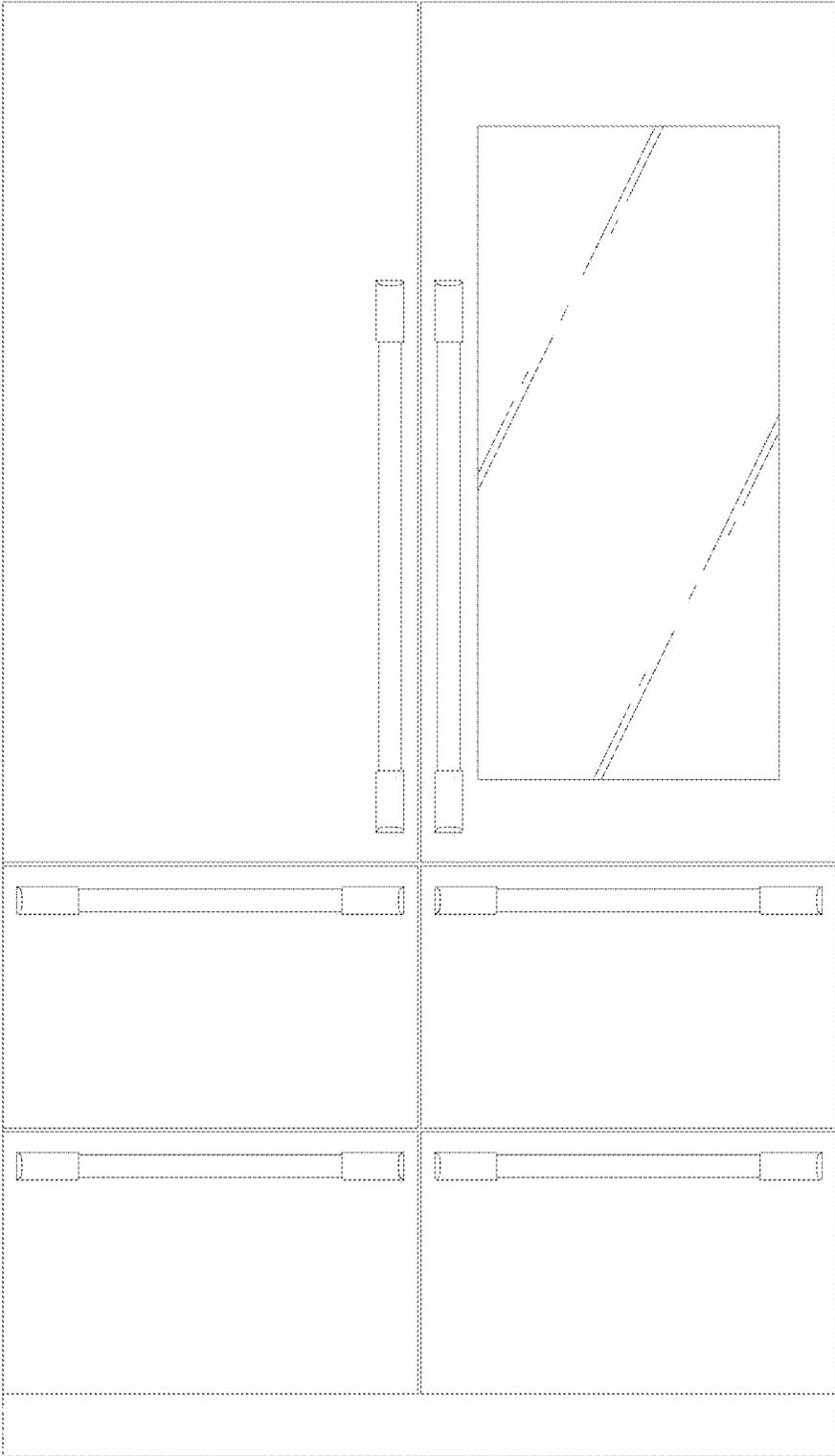


FIG. 3

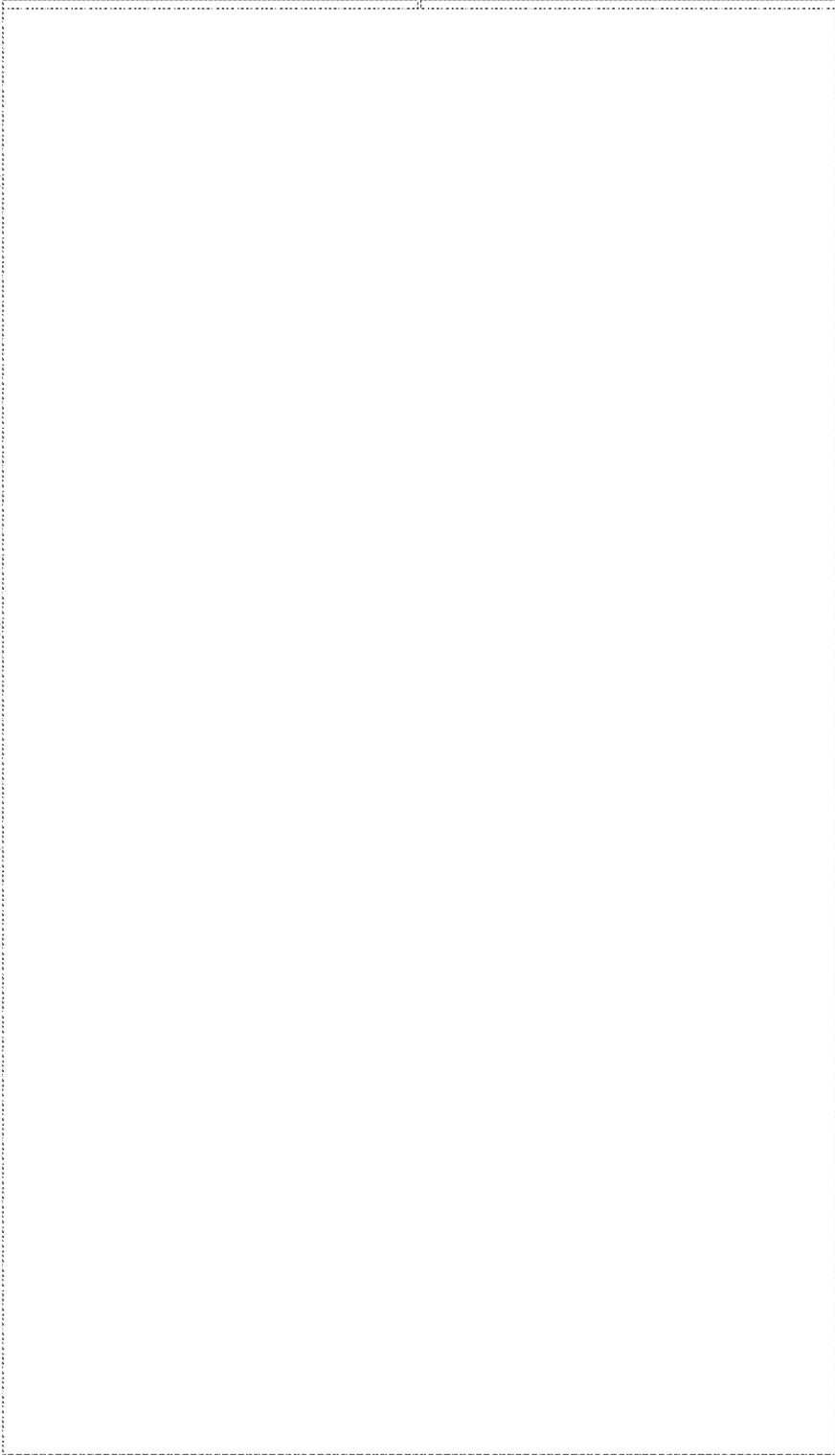


FIG. 4

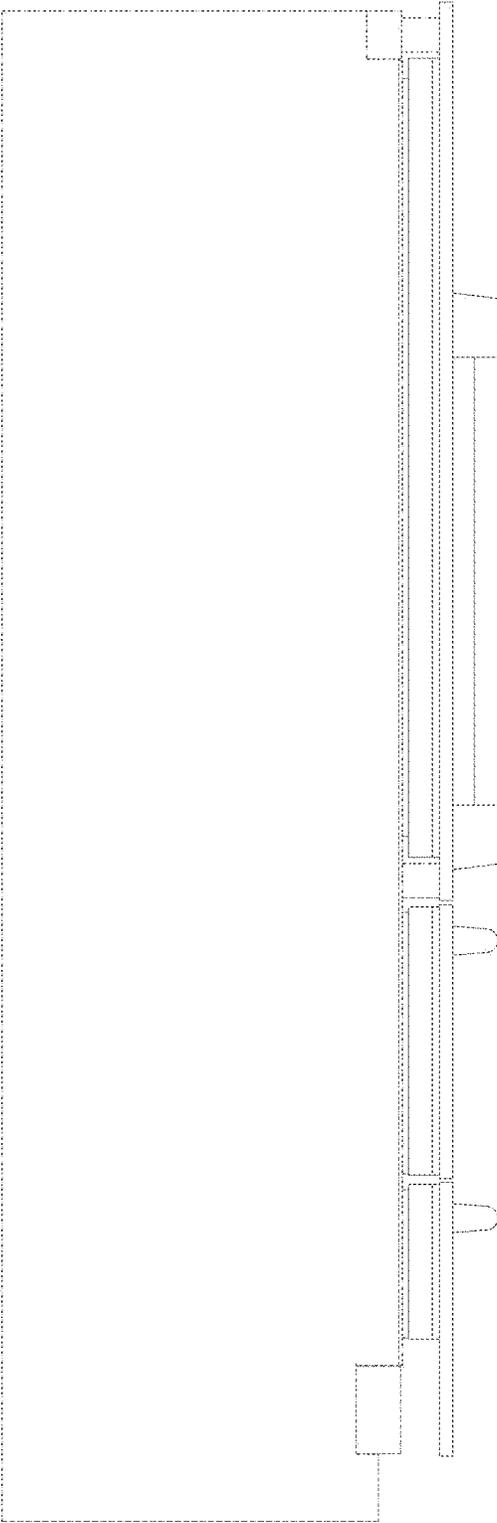


FIG. 5

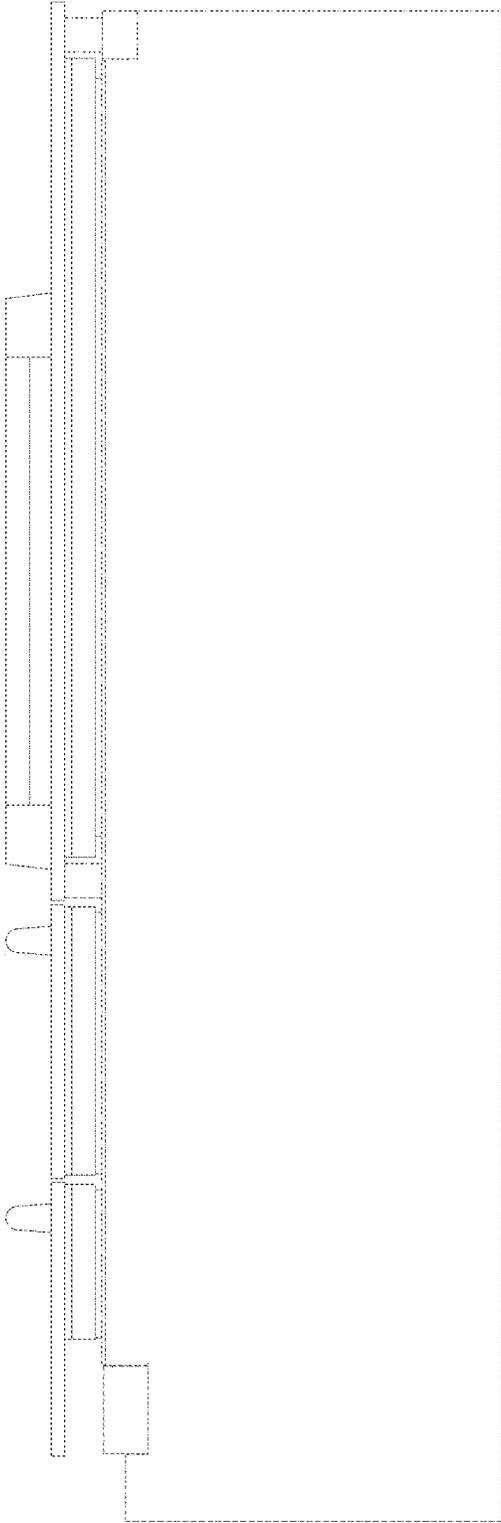


FIG. 6

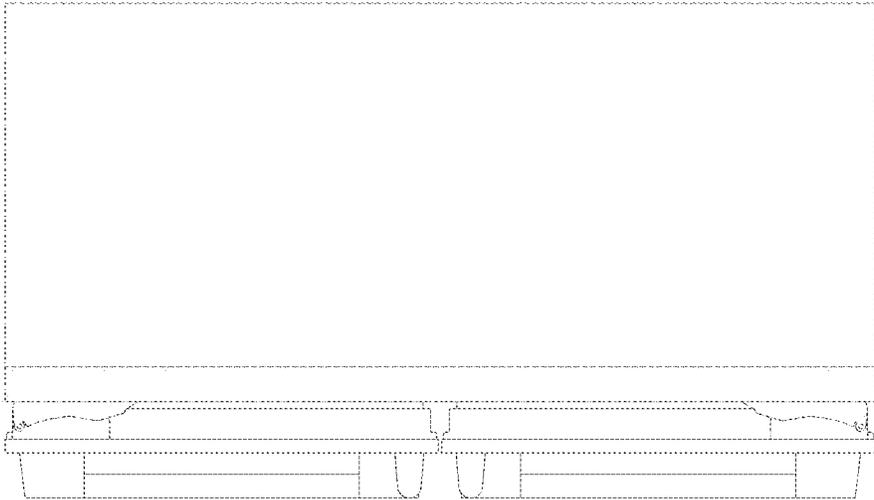


FIG. 7

