

US0D1028036S

(12)

United States Design Patent

Kim et al.

(10)

Patent No.:

US D1,028,036 S

(45)

Date of Patent:

** May 21, 2024

(54) REFRIGERATOR

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

(72) Inventors: Yong Kim, Seoul (KR); Kyukwan Choi, Seoul (KR); Myungshik Kim, Seoul (KR); Joosang Kim, Seoul (KR); Minsub Kim, Seoul (KR); Sungkyong Han, Seoul (KR); Yezo Yun, Seoul (KR)

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

Primary Examiner — Khawaja Anwar

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

(57)

CLAIM

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

(**) Term:

15 Years

DESCRIPTION

(21) Appl. No.: 29/847,772

(22) Filed: Jul. 27, 2022

(30) Foreign Application Priority Data

Jan. 28, 2022 (KR) 30-2022-0004380

(51) LOC (14) Cl. 15-07

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

(58) Field of Classification Search

USPC D15/81–88, 89, 91

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 27/00;

FIG. 1 is a front perspective view of the refrigerator showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a back 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;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is a front perspective view in a condition that the home-bar has been opened and a part of the basket has been protruded;
FIG. 9 is a front view of FIG. 8
FIG. 10 is a back view of FIG. 8
FIG. 11 is a left side view of FIG. 8
FIG. 12 is a right side view of FIG. 8
FIG. 13 is a top plan view of FIG. 8;
FIG. 14 is a bottom plan view of FIG. 8;
FIG. 15 is a front perspective view in a condition that all of the basket has been protruded;
FIG. 16 is a front view of FIG. 15;
FIG. 17 is a back view of FIG. 15;
FIG. 18 is a left side view of FIG. 15;
FIG. 19 is a right side view of FIG. 15;
FIG. 20 is a top plan view of FIG. 15; and,
FIG. 21 is a bottom plan view of FIG. 15.
The broken lines depict portions of the refrigerator that form no part of the claimed design.

(Continued)

(56) References Cited

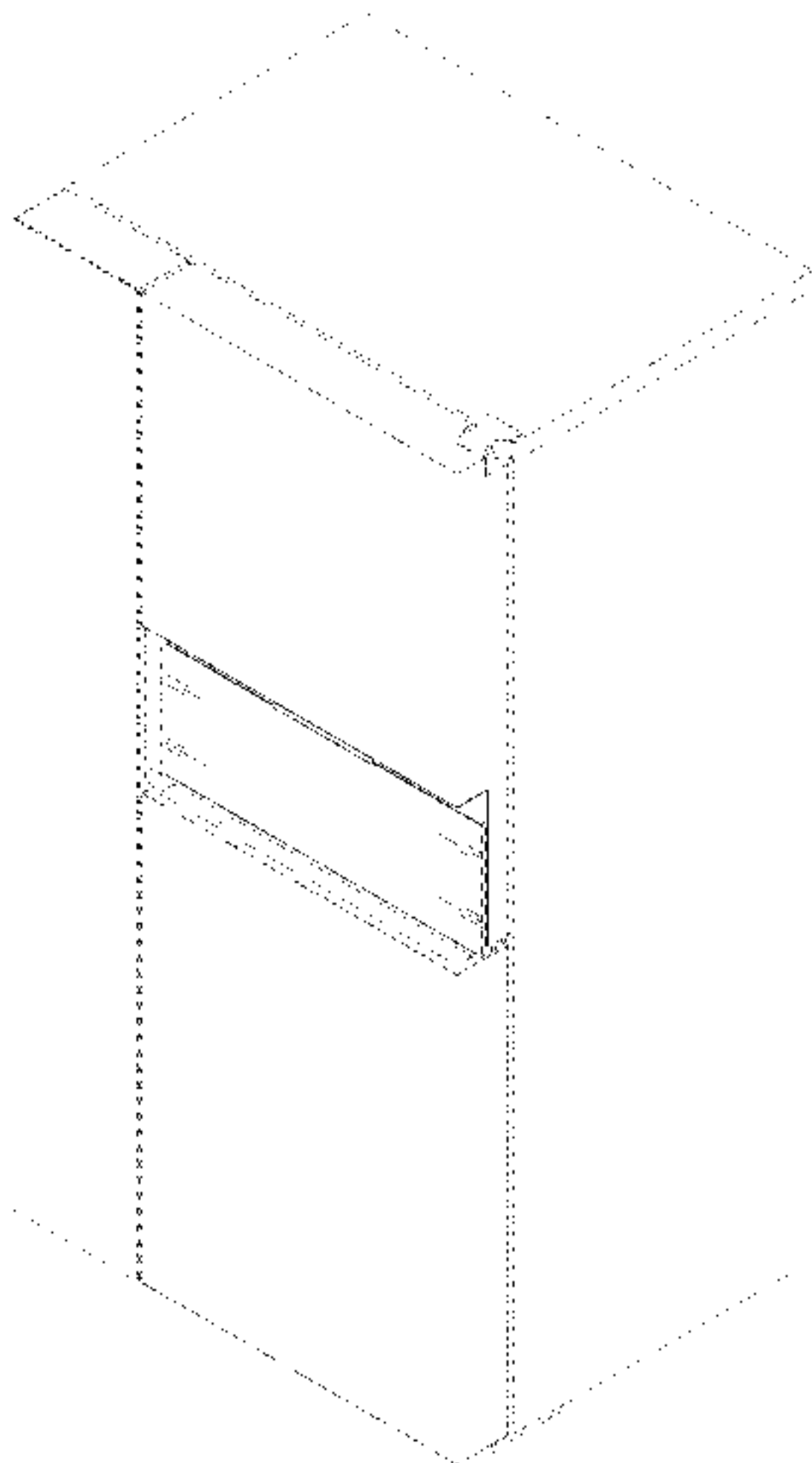
U.S. PATENT DOCUMENTS

D730,956 S * 6/2015 You D15/91

D730,957 S * 6/2015 You D15/91

(Continued)

1 Claim, 21 Drawing Sheets



(58) **Field of Classification Search**

CPC F25D 2201/14; F25D 2317/061; 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 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

D737,869	S	*	9/2015	Seo		D15/91
D829,777	S	*	10/2018	Kim		D15/91
D841,060	S	*	2/2019	Jeon		D15/91
D852,239	S	*	6/2019	Lee		D15/91
D861,744	S	*	10/2019	Lee		F25D 25/025
						D15/91
D862,536	S	*	10/2019	Kim		F25D 25/025
						D15/91
D868,853	S	*	12/2019	Lee		D15/91
D869,521	S	*	12/2019	Lee		D15/91
D966,352	S	*	10/2022	Lee		D15/89

* cited by examiner

FIG. 1

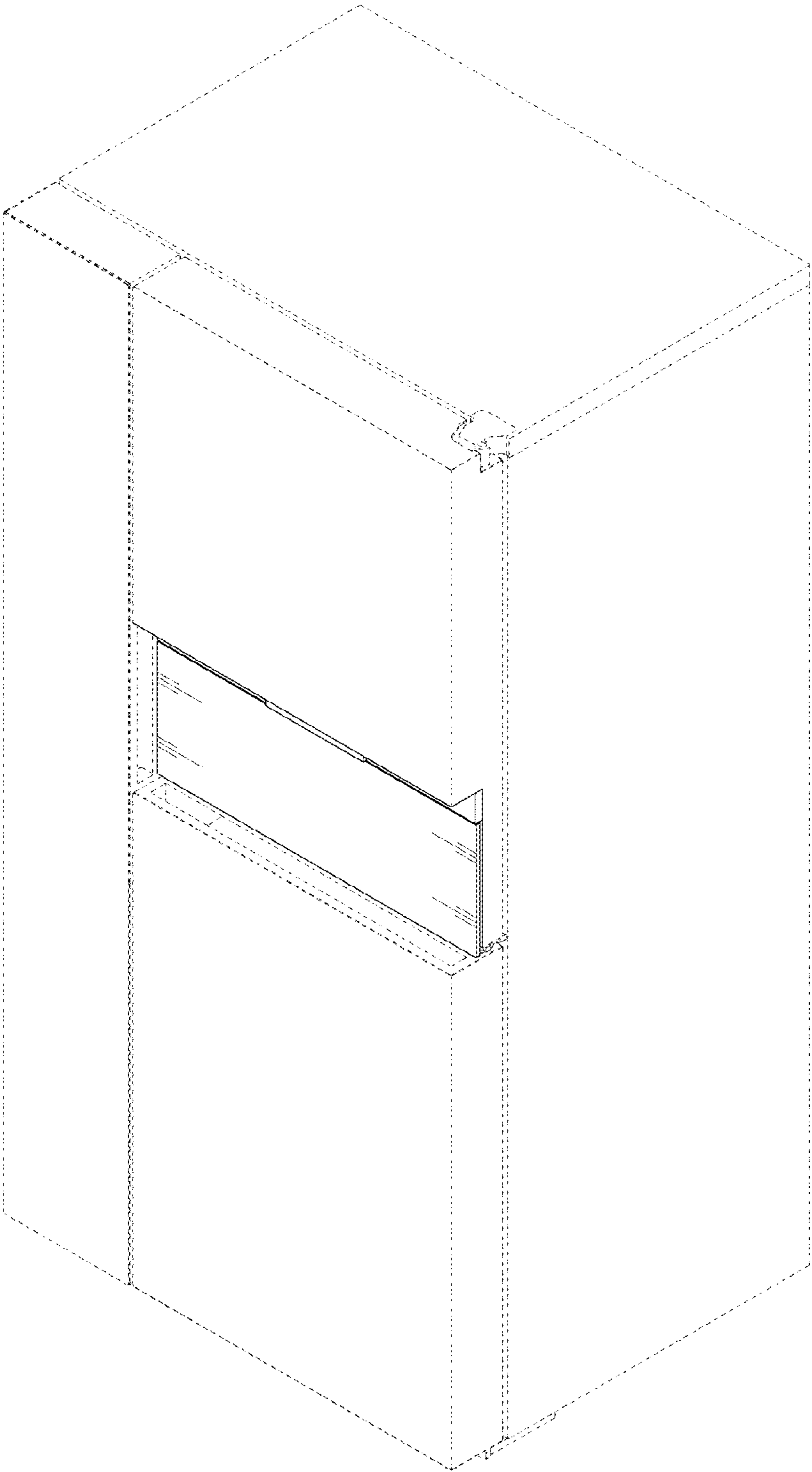


FIG. 2

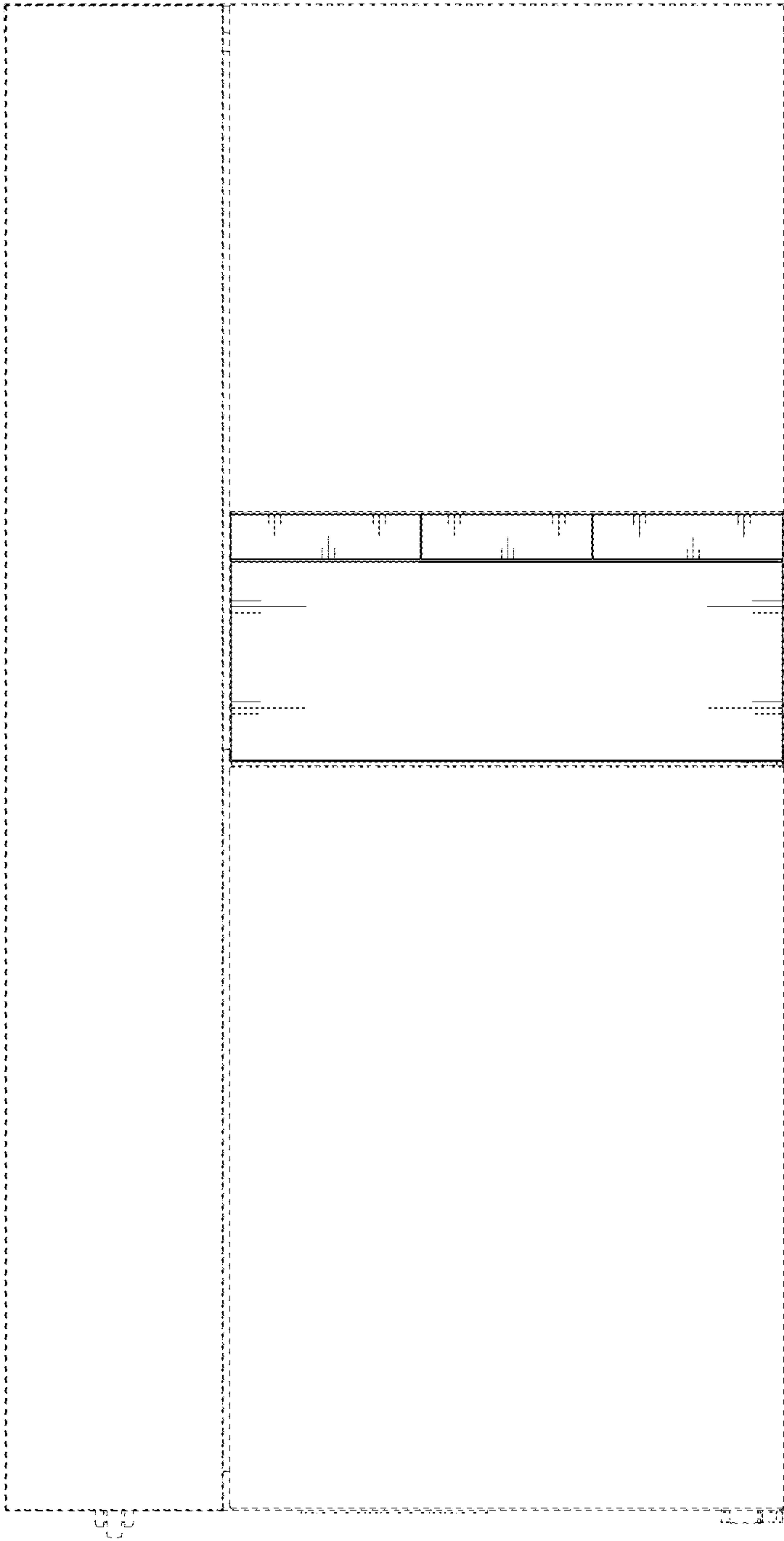


FIG. 3



FIG. 4

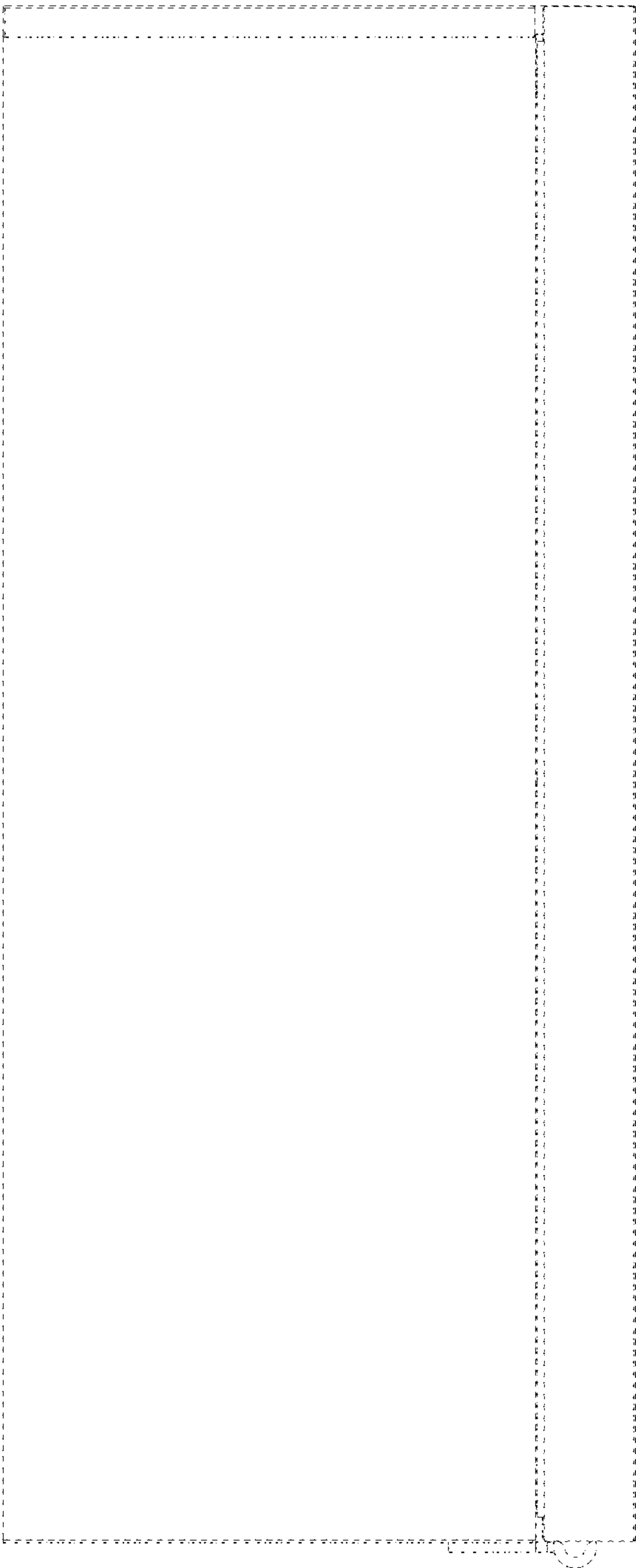


FIG. 5

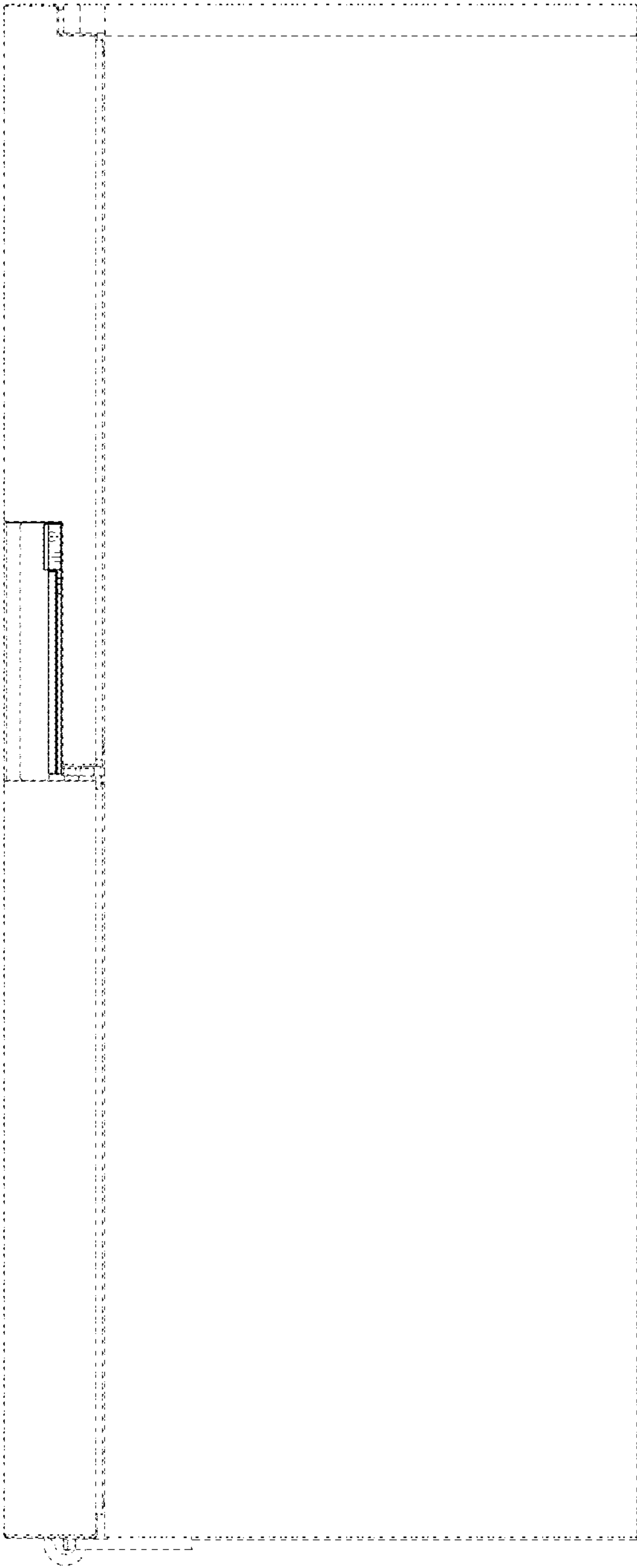


FIG. 6

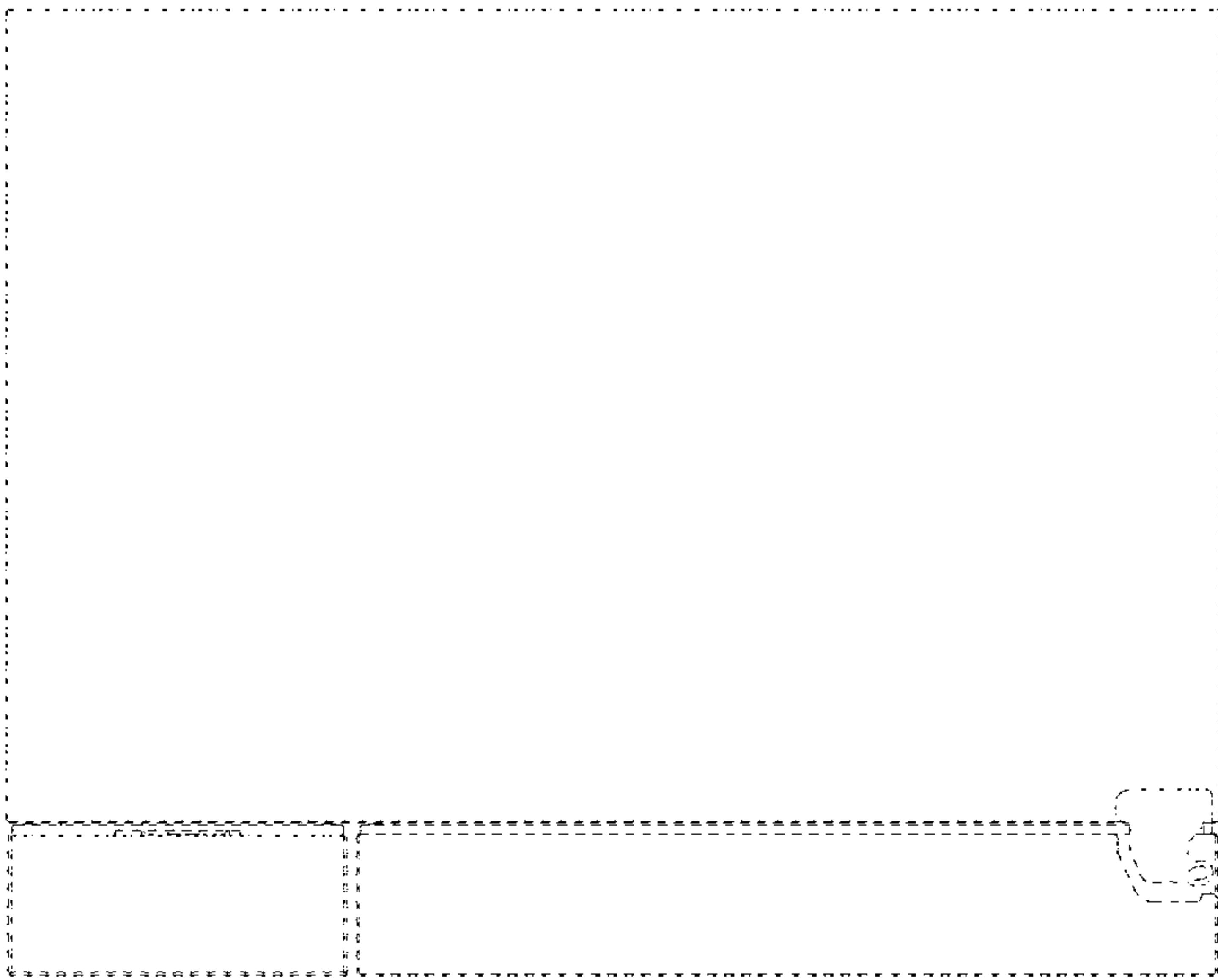


FIG. 7

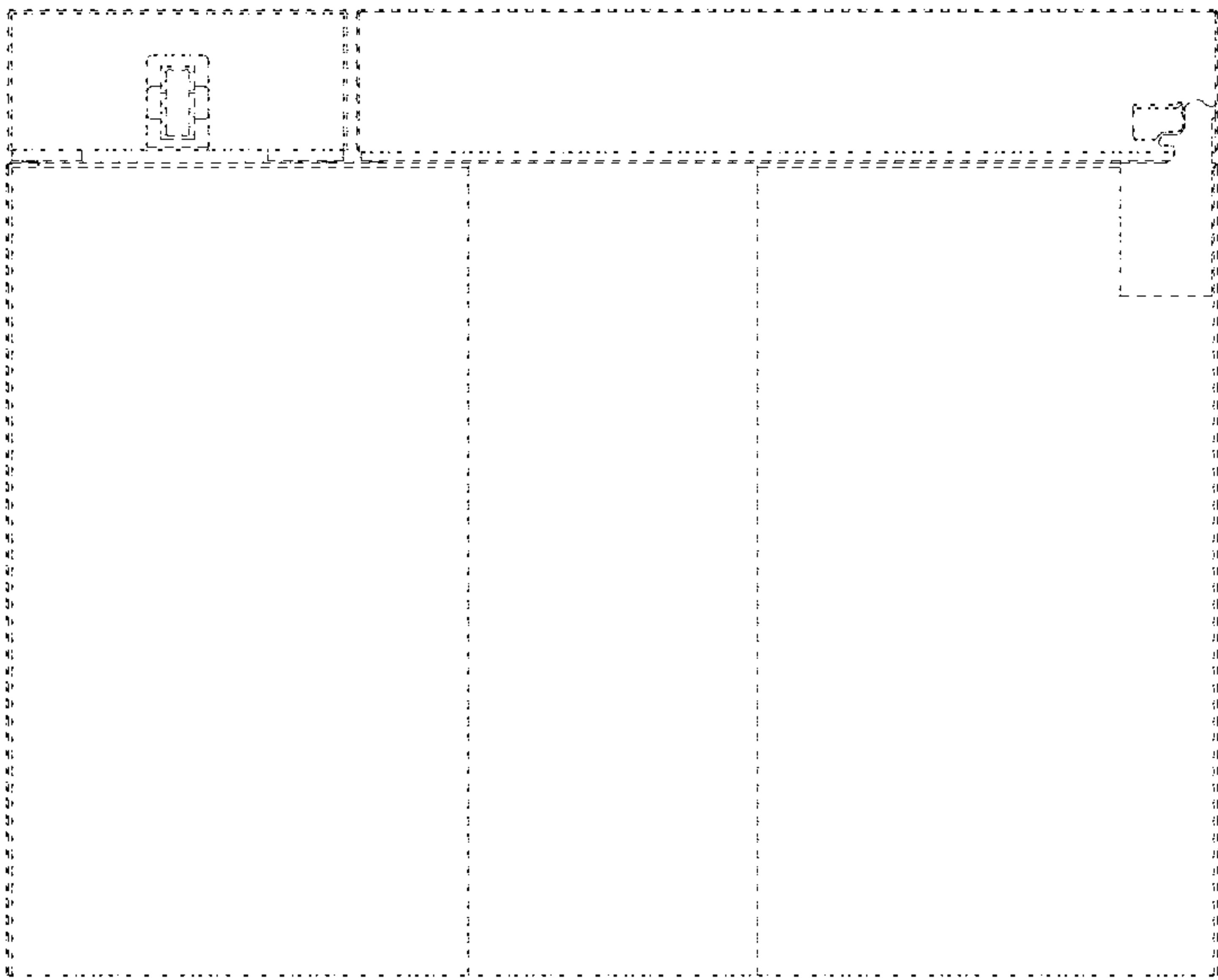


FIG. 8

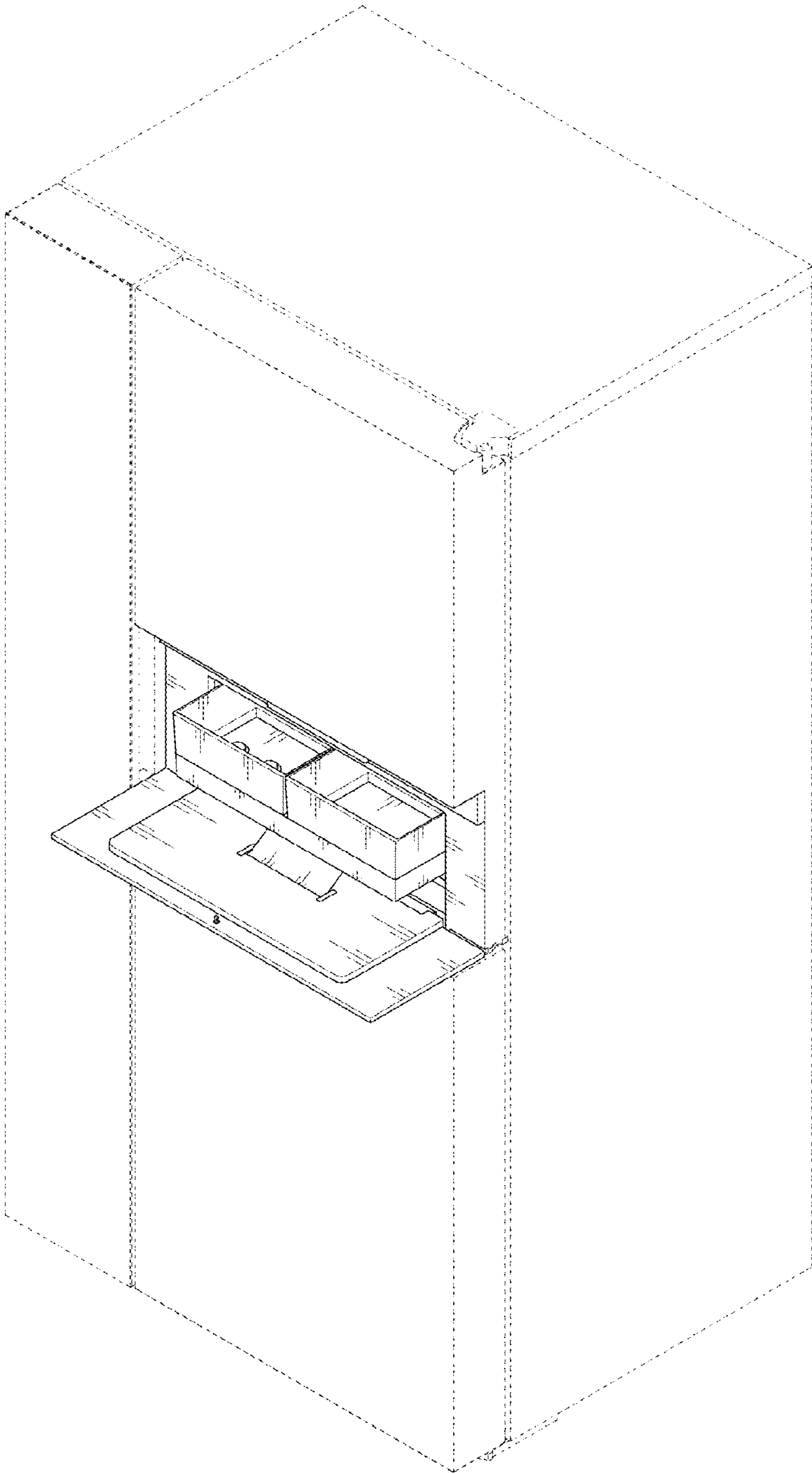


FIG. 9

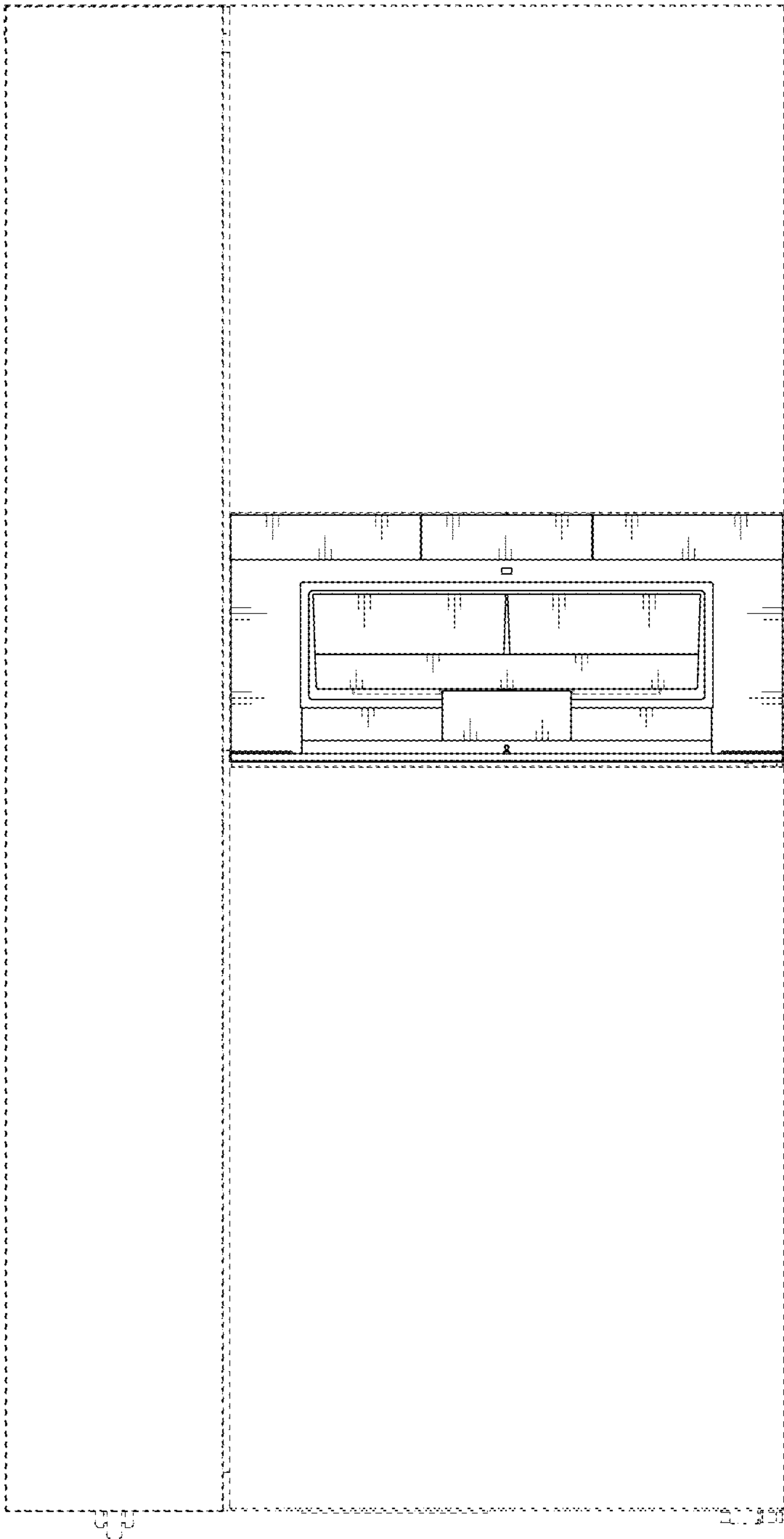


FIG. 10



FIG. 11

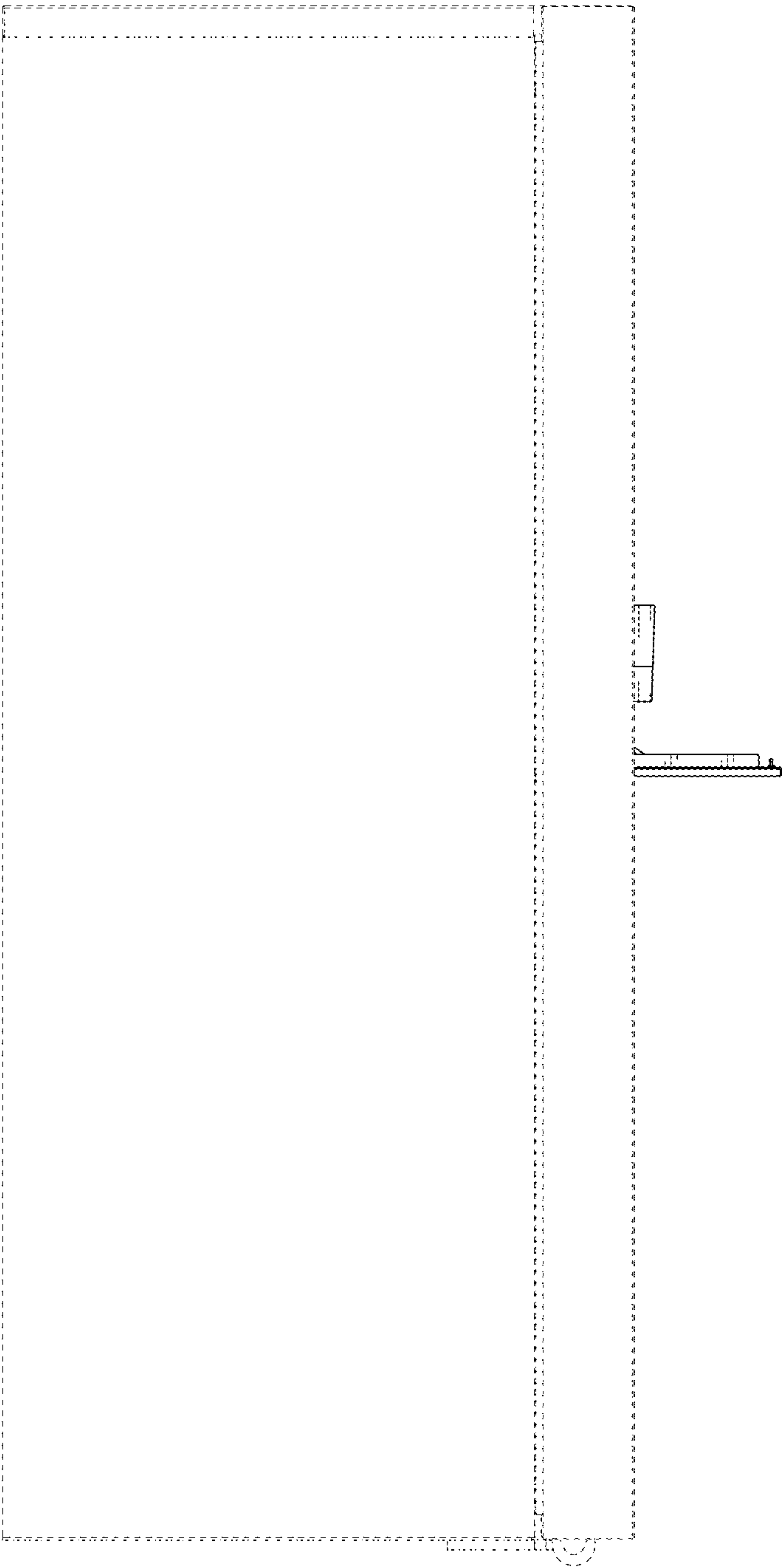


FIG. 12

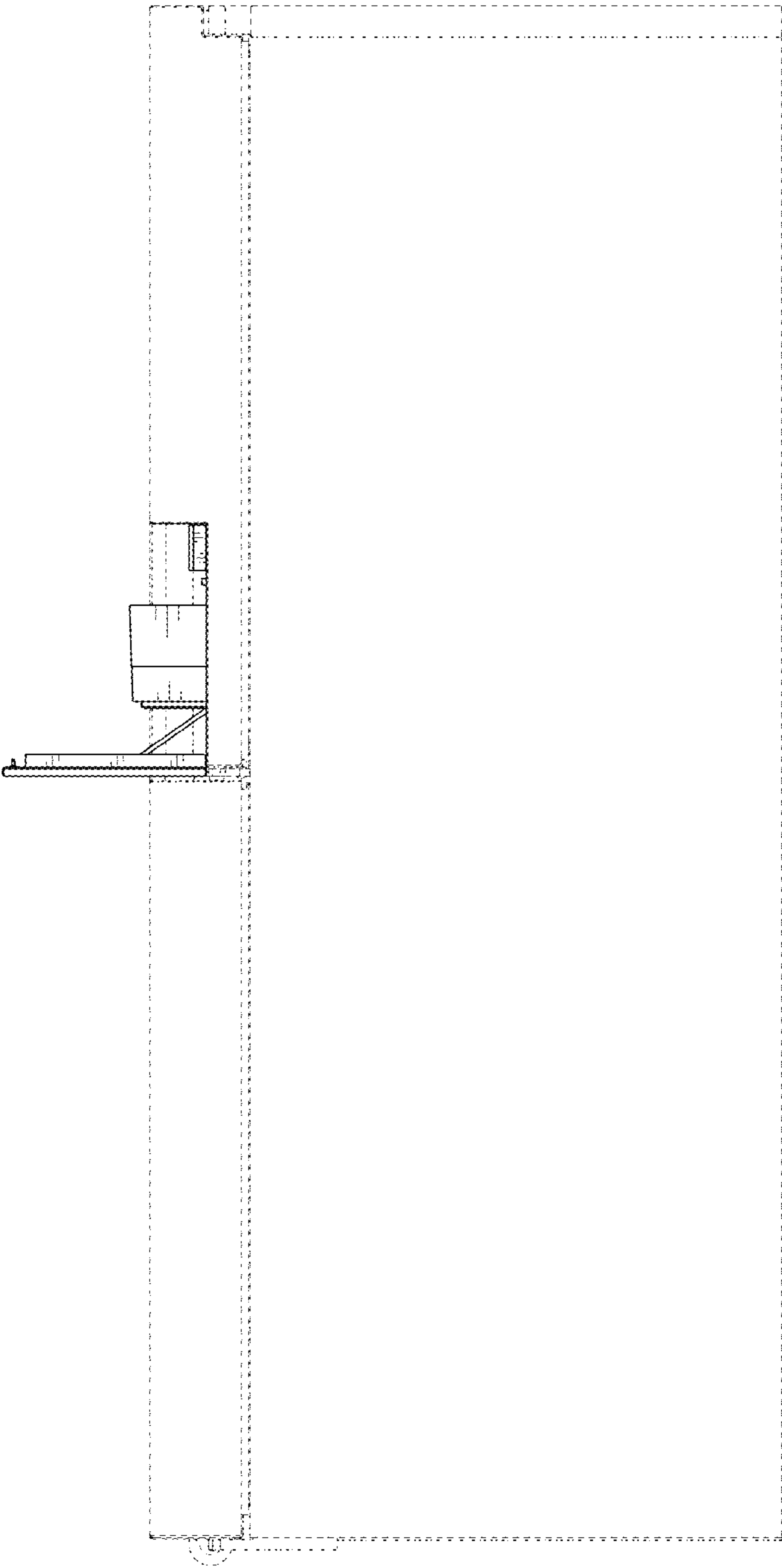


FIG. 13

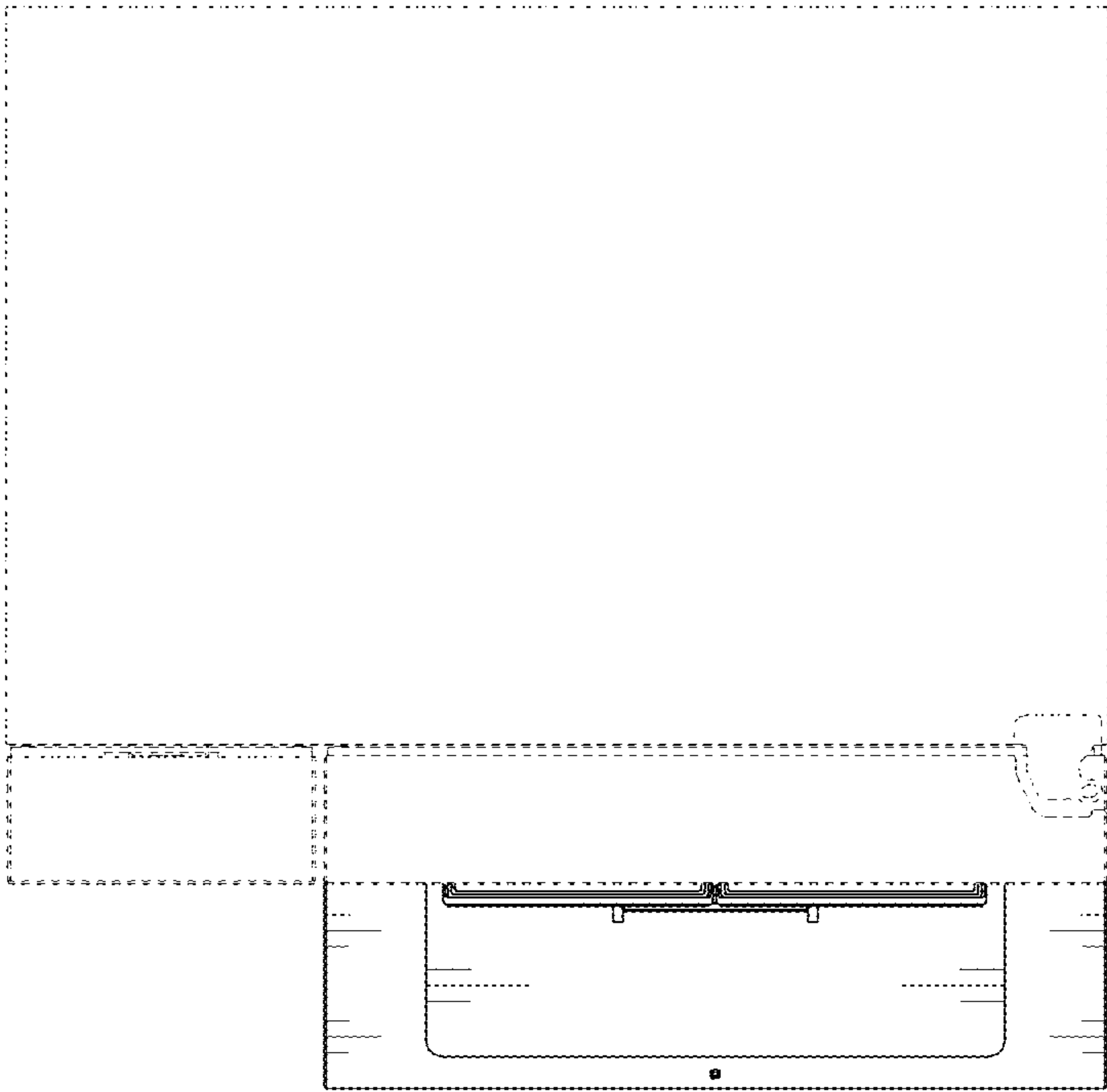


FIG. 14

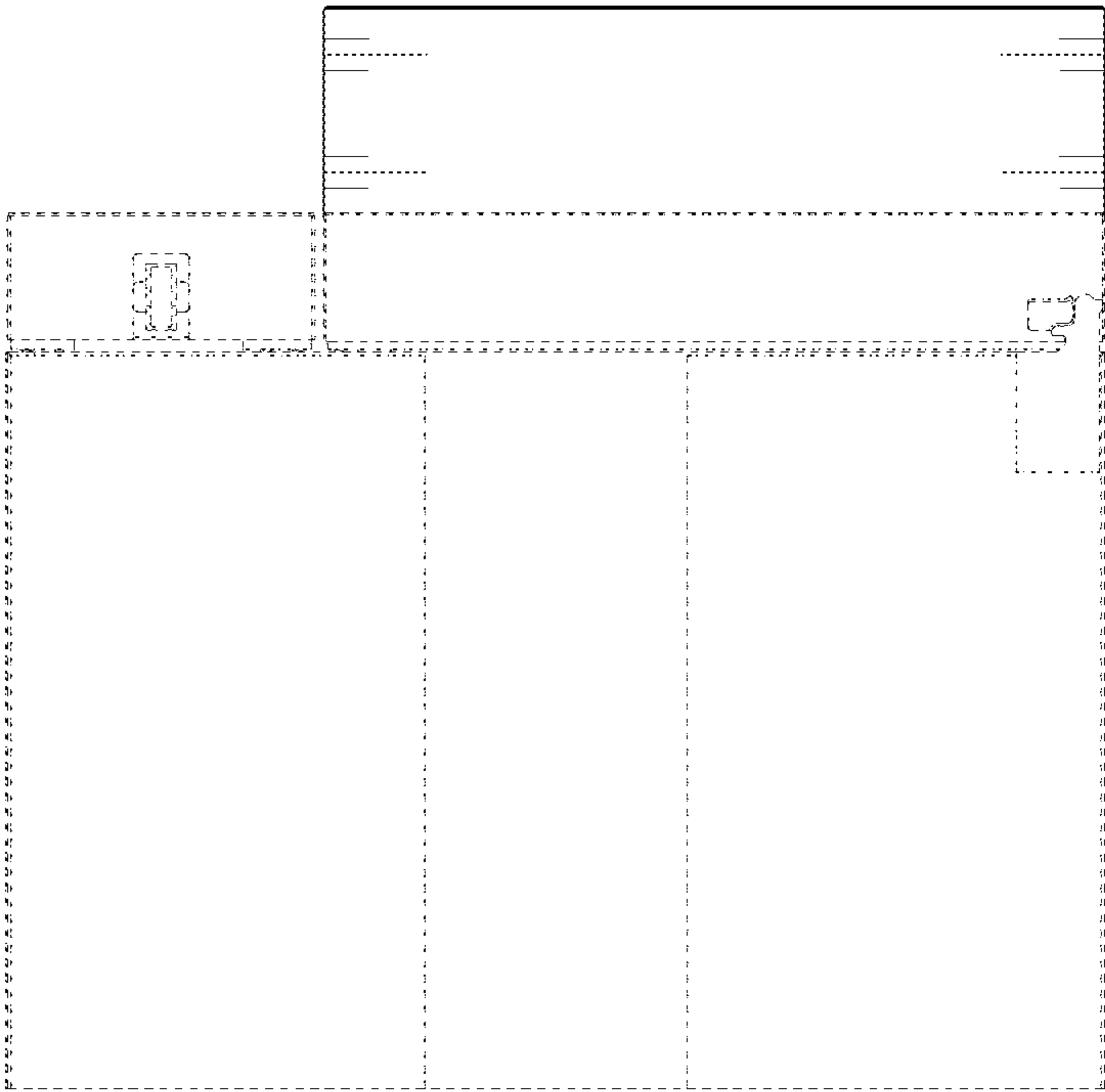


FIG. 15

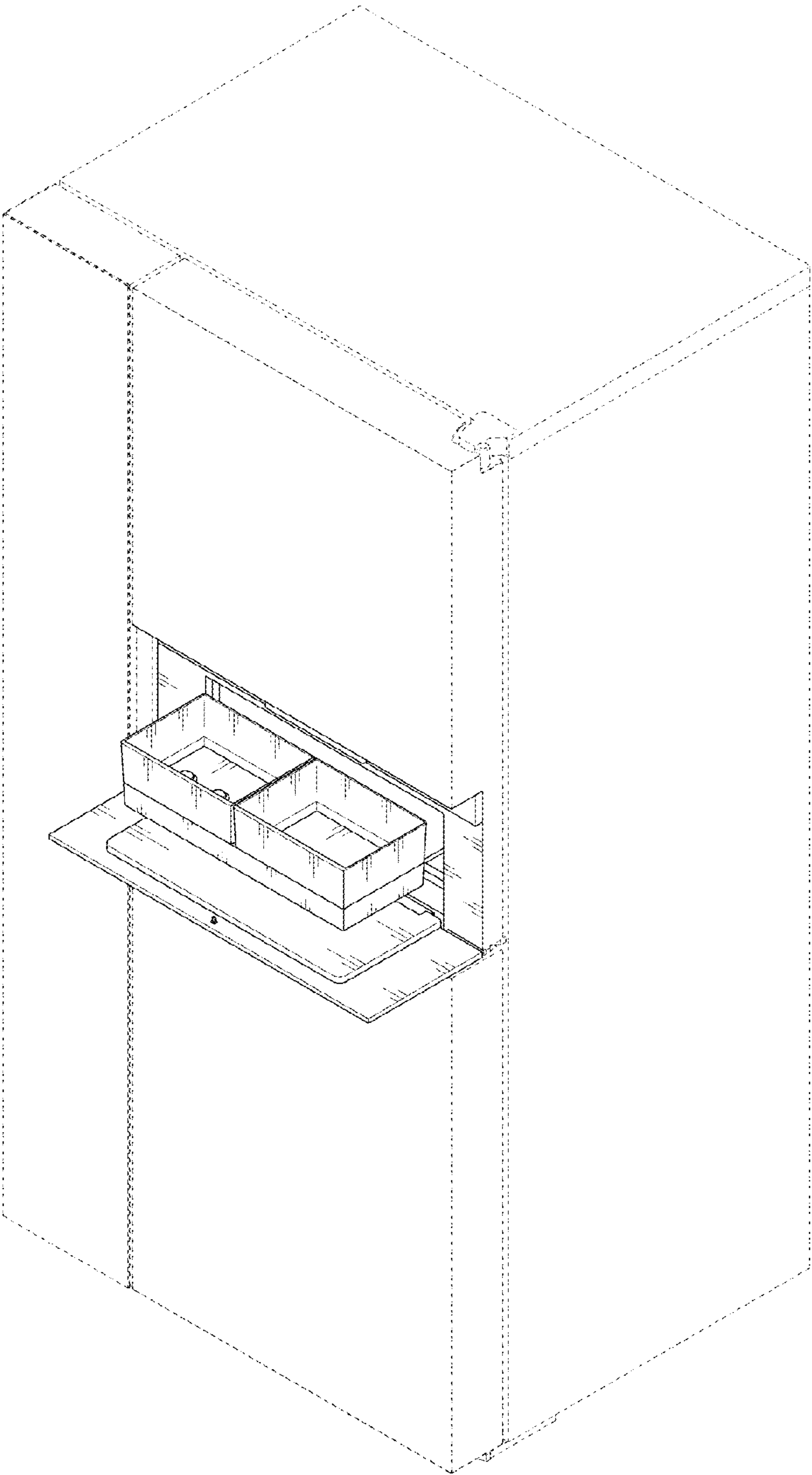


FIG. 16

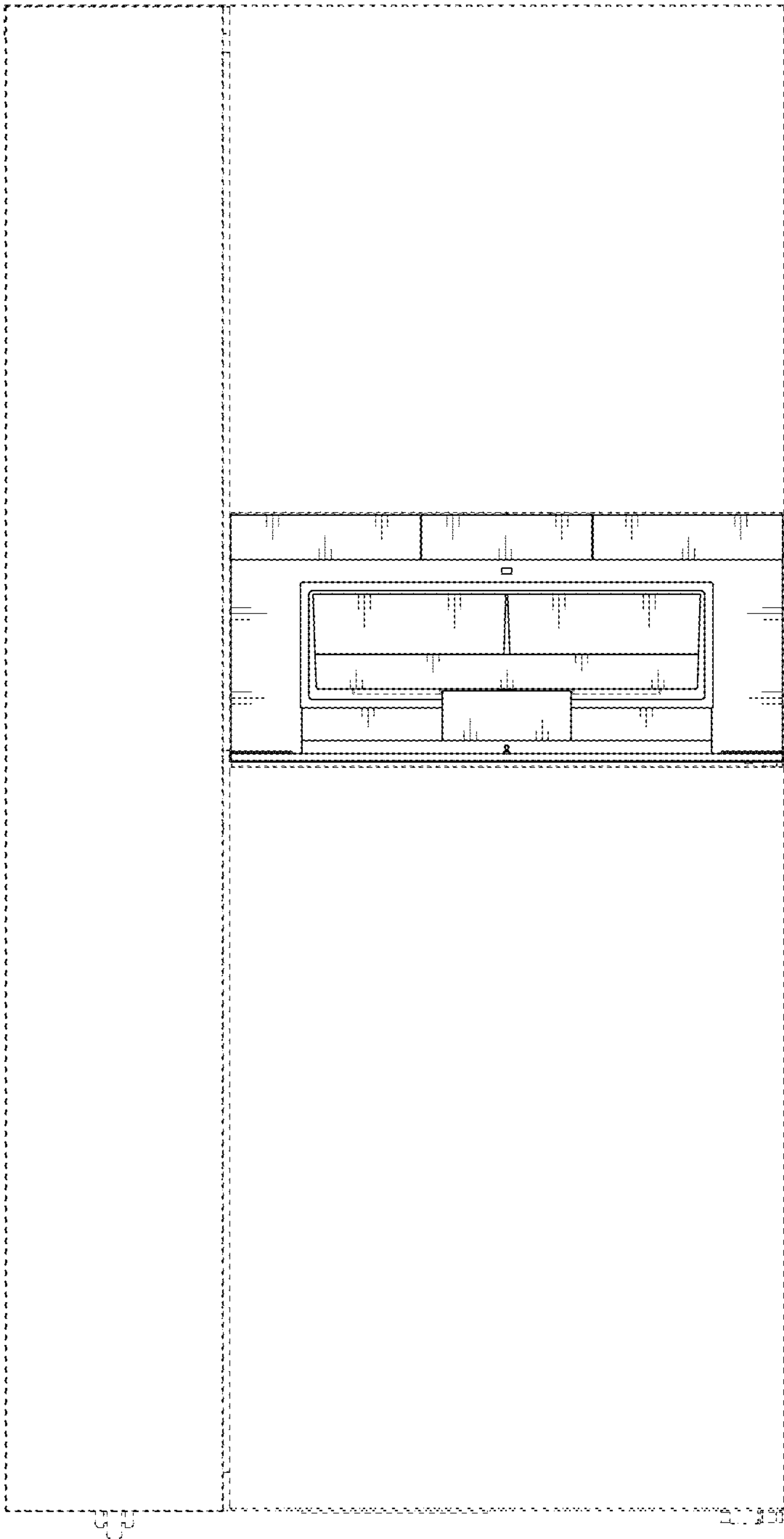


FIG. 17



FIG. 18

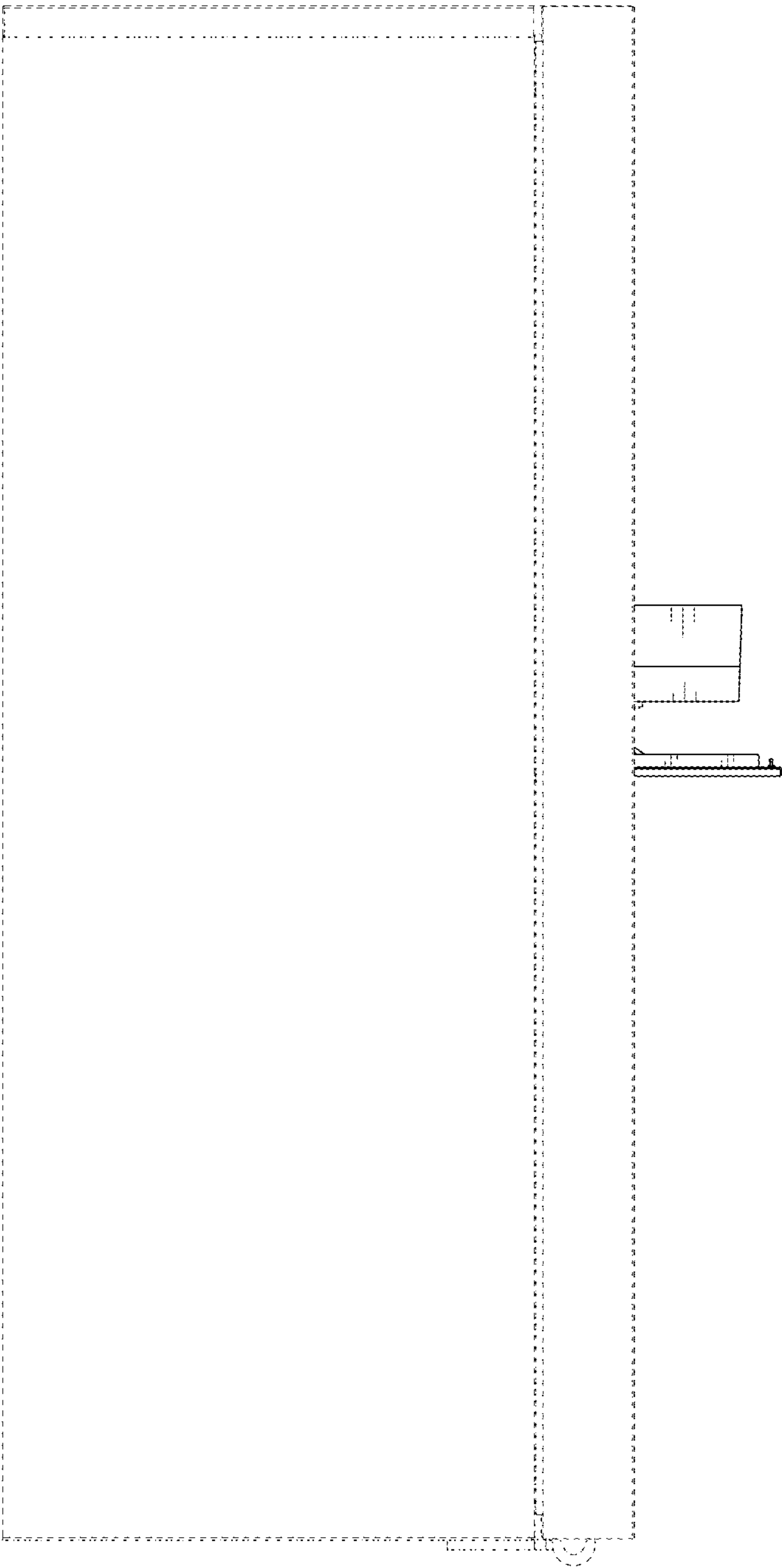


FIG. 19

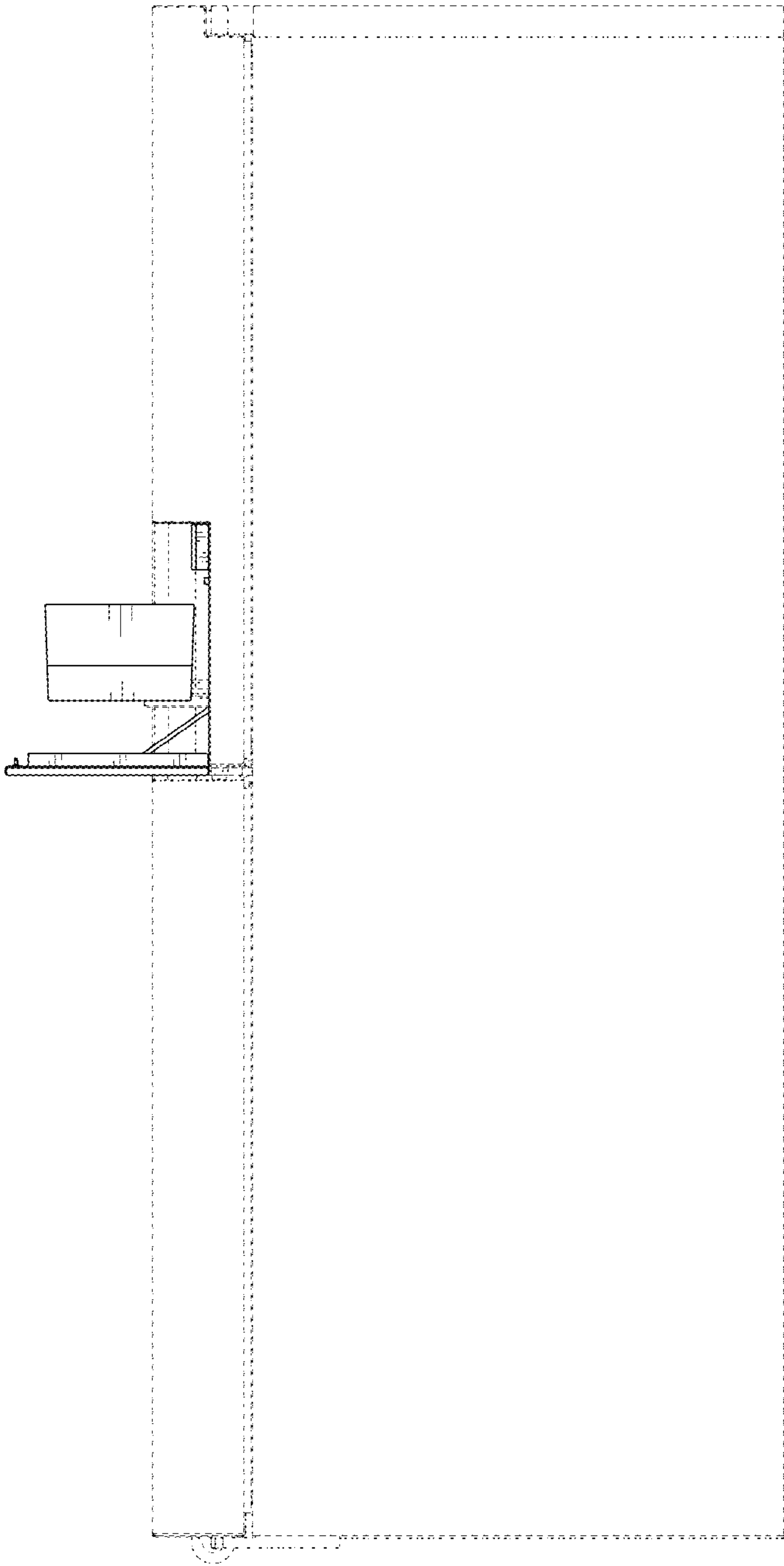


FIG. 20

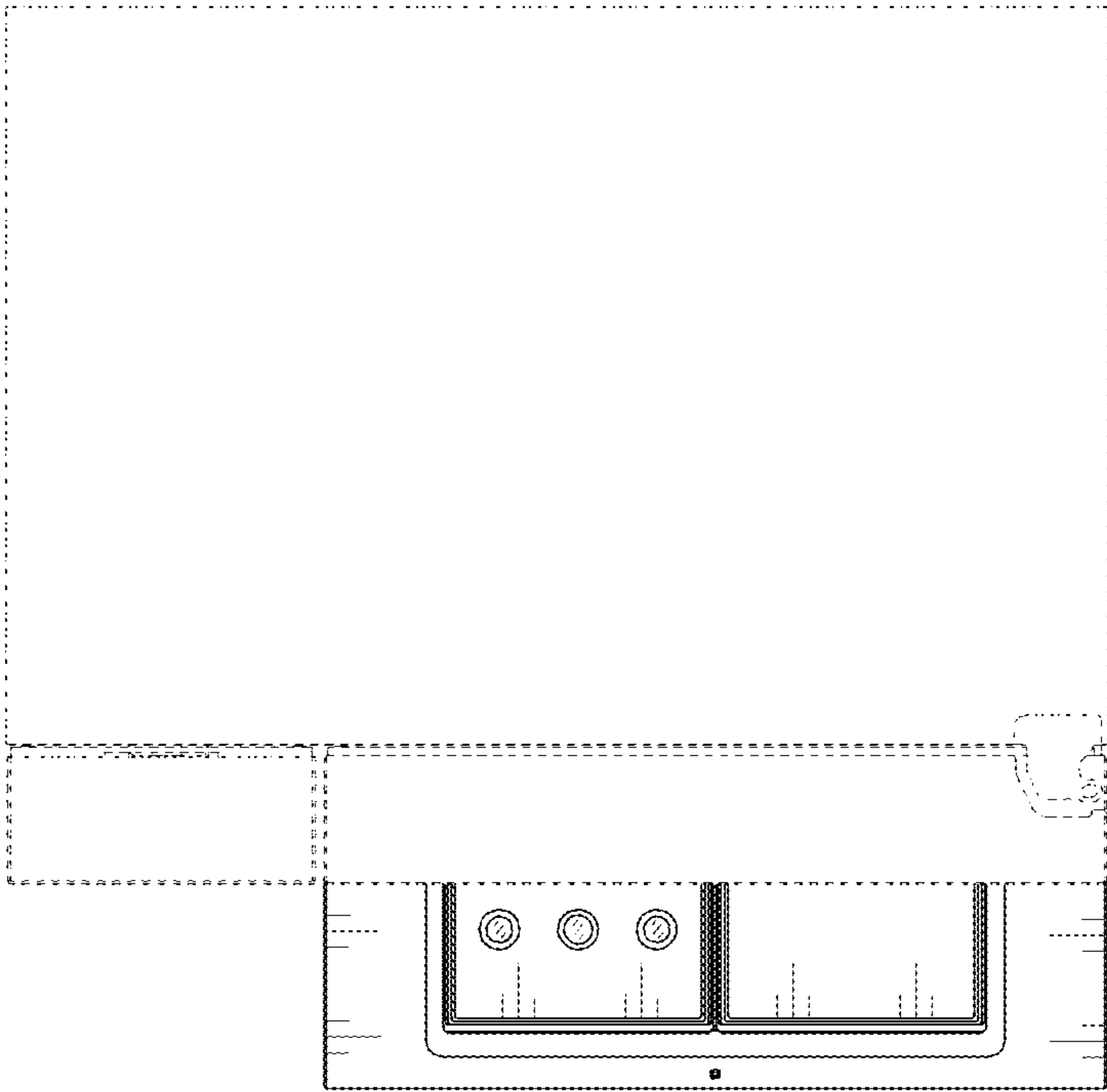


FIG. 21

