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(12) **United States Design Patent** (10) **Patent No.: US D1,088,239 S**  
**Hamamatsu et al.** (45) **Date of Patent: \*\* Aug. 12, 2025**

(54) **MILLING MACHINE FOR DENTAL USE**

FOREIGN PATENT DOCUMENTS

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(JP)

JP D1723958 S 9/2022

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OTHER PUBLICATIONS

DGShape. 2024. Site visited Dec. 14, 2024. [https://dgshape.com/]  
(Year: 2024).\*

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

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(21) Appl. No.: **35/520,734**

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(57) **CLAIM**

(80) **Hague Agreement Data**

The ornamental design for a milling machine for dental use  
as shown and described.

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## DESCRIPTION

(30) **Foreign Application Priority Data**

Jan. 17, 2023 (JP) ..... 2023-000677 D

(51) **LOC (15) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/176**

(58) **Field of Classification Search**  
USPC ..... D24/107, 152, 169, 176, 177, 183–187,  
D24/216–234; D34/12, 19; D16/208;  
D15/122

CPC ..... A61G 15/14; A61G 15/16; A61B 50/10;  
A61B 2050/105; A61C 1/0007; A61C  
13/20; A61C 19/02; A61C 3/04; A61C  
(Continued)

1. Milling machine for dental use

1.1 : Perspective

1.2 : Perspective view with the left lower door open

1.3 : Front

1.4 : Front view with the left lower door open

1.5 : Top

1.6 : Top view with the left lower door open

1.7 : Back

1.8 : Back view with the left lower door open

1.9 : Bottom

1.10 : Bottom view with the left lower door open

1.11 : Right

1.12 : Right view with the left lower door open

1.13 : Left

1.14 : Left view with the left lower door open

The oblique line shading shown in the reproductions is used  
to denote claimed surfaces of the milling machine for dental  
use that are transparent: in these reproductions, the details of  
the surfaces as seen through the claimed transparent surfaces  
of the milling machine for dental use have not been shown  
for ease of illustration and understanding.

(56) **References Cited**

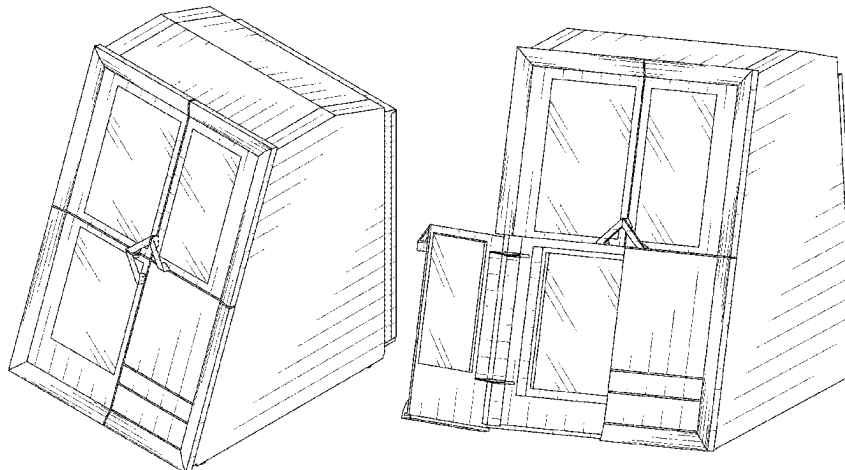
U.S. PATENT DOCUMENTS

D468,420 S \* 1/2003 Bolmsjo ..... D24/176

D547,458 S \* 7/2007 Haymann ..... D24/221

(Continued)

**1 Claim, 14 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 1/0053; A61C 19/00; A61C 1/00; A61C  
1/08; G05B 2219/45145

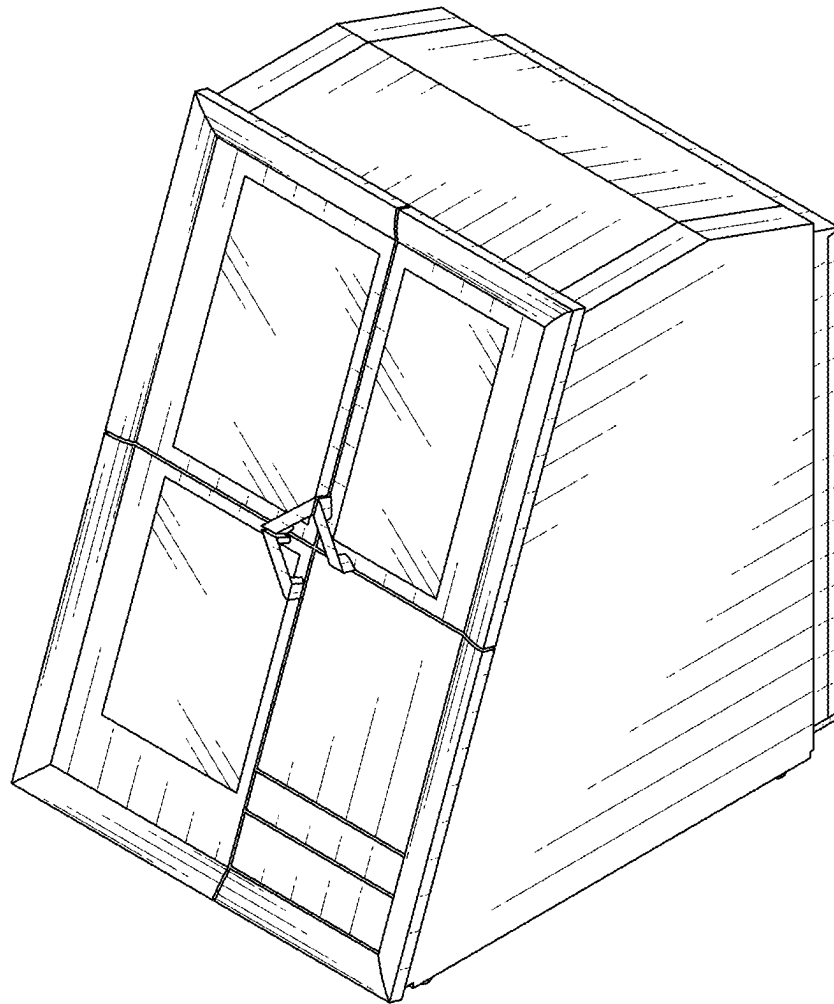
See application file for complete search history.

(56) **References Cited**

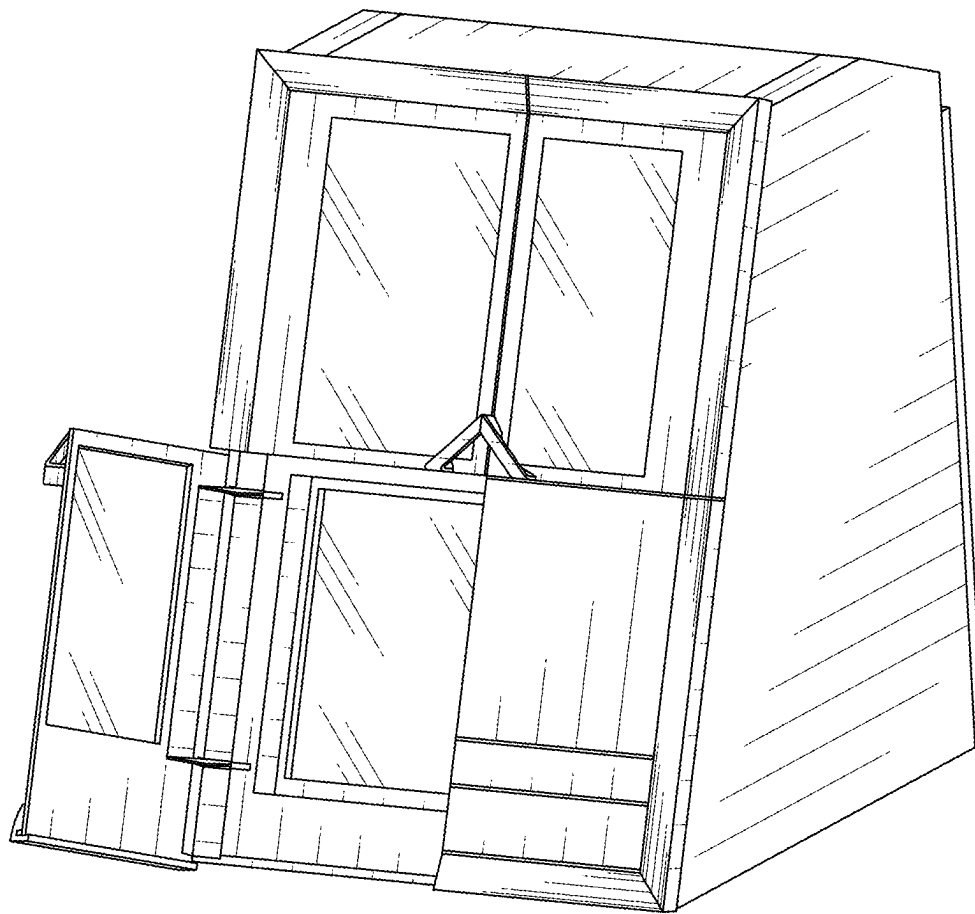
U.S. PATENT DOCUMENTS

D547,920	S *	7/2007	Kinsley .....	G06F 1/1632 D34/19
D557,421	S *	12/2007	Fleck .....	D24/185
D561,973	S *	2/2008	Kinsley .....	D34/19
D575,022	S *	8/2008	Girard .....	D34/19
D709,200	S *	7/2014	Silvonen .....	D24/177
D812,230	S *	3/2018	Silvonen .....	D24/177
D887,461	S *	6/2020	Malmén .....	D15/122
D913,503	S *	3/2021	Kari .....	D24/177
D970,143	S *	11/2022	Bailey .....	D34/19
I1,617,436	B1 *	4/2023	McNannay .....	A61J 1/16 109/44
D987,078	S *	5/2023	Frenkler .....	D16/208
D988,513	S *	6/2023	Bassir .....	D24/152
D1,042,842	S *	9/2024	Gorfinkel .....	D16/208
2018/0236620	A1 *	8/2018	Schüle .....	B23Q 7/10
2021/0170503	A1 *	6/2021	Bodgan .....	G05B 19/188
2023/0201985	A1 *	6/2023	Butschan .....	A61C 13/0003 409/137
2024/0300135	A1 *	9/2024	Dodo .....	B23Q 11/02

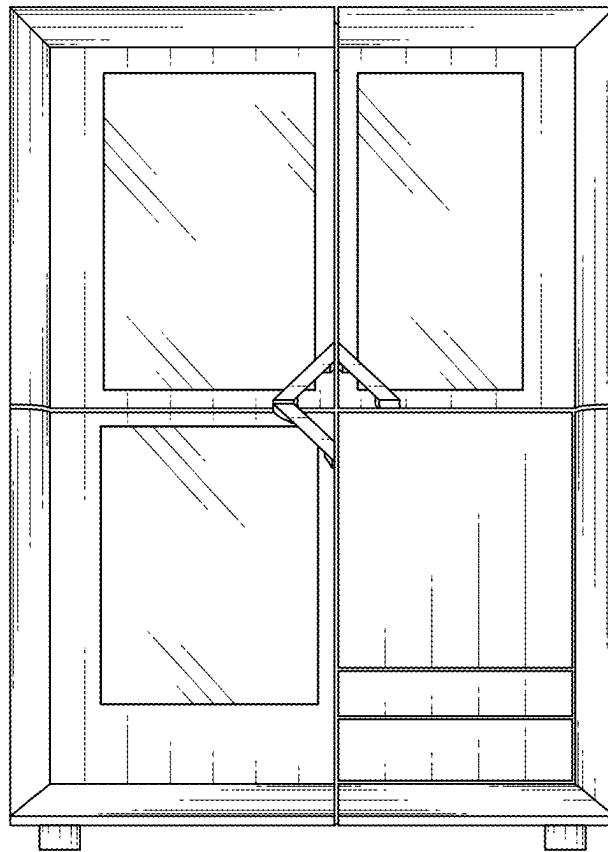
\* cited by examiner



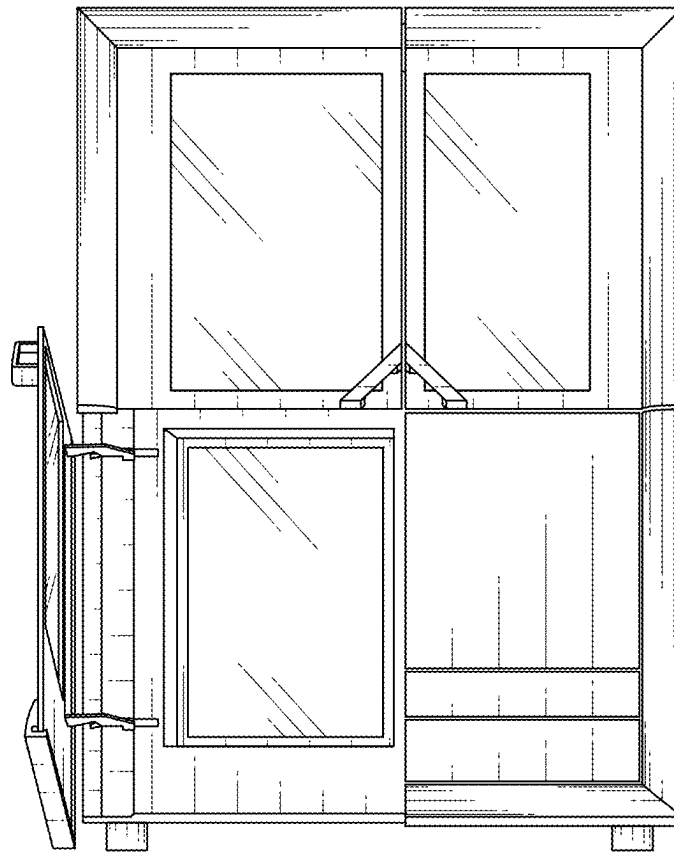
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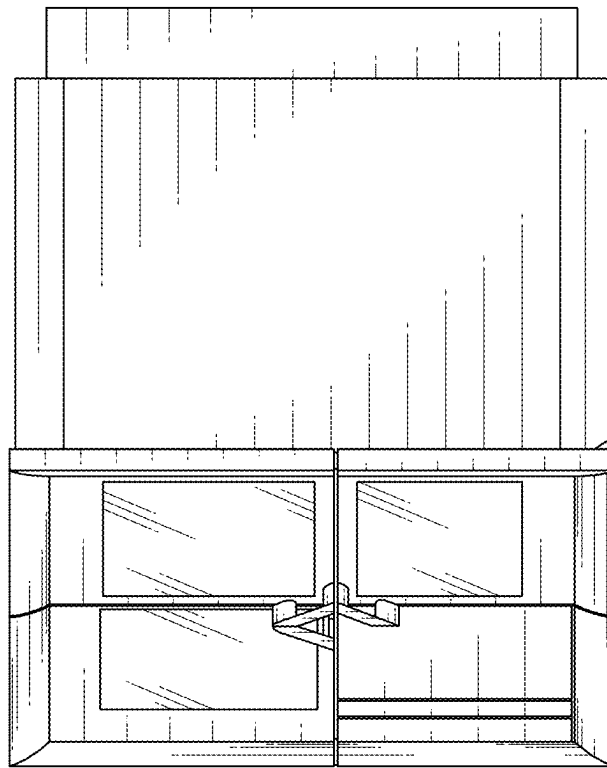
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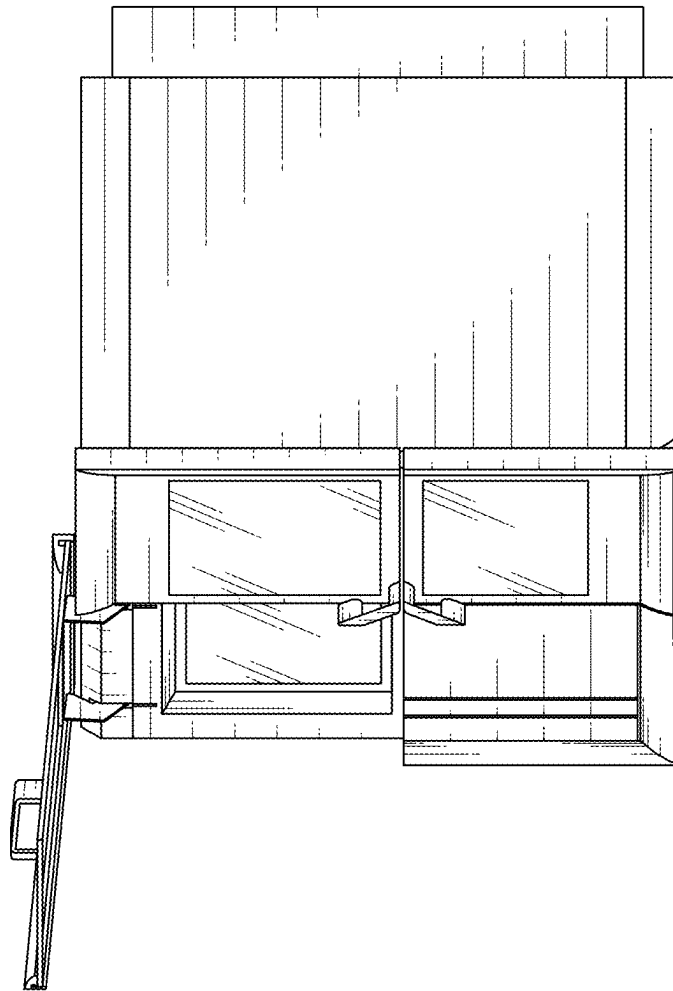
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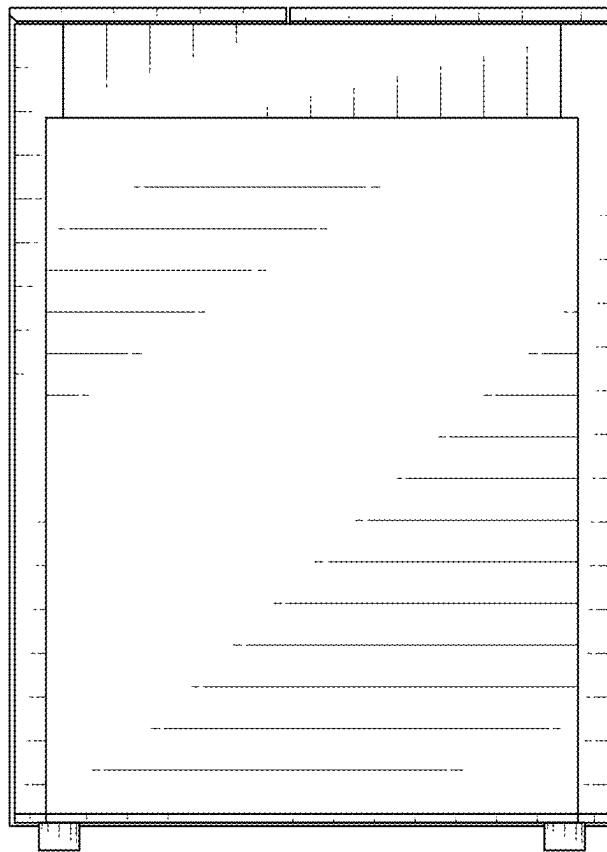


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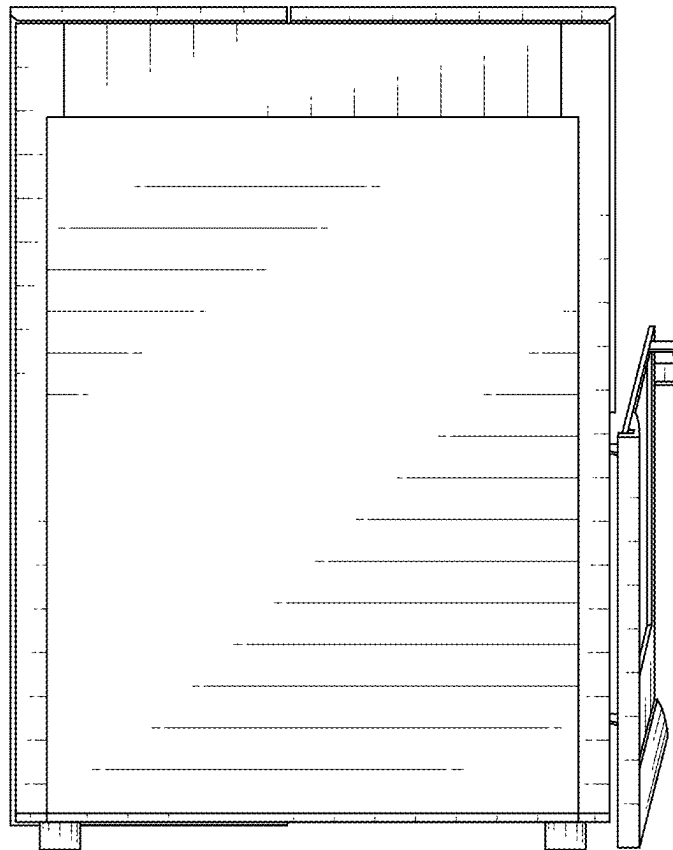


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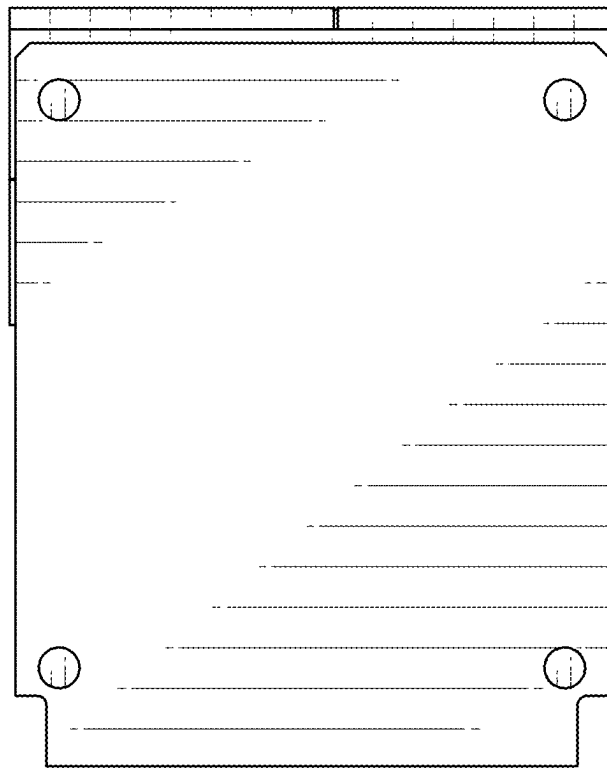




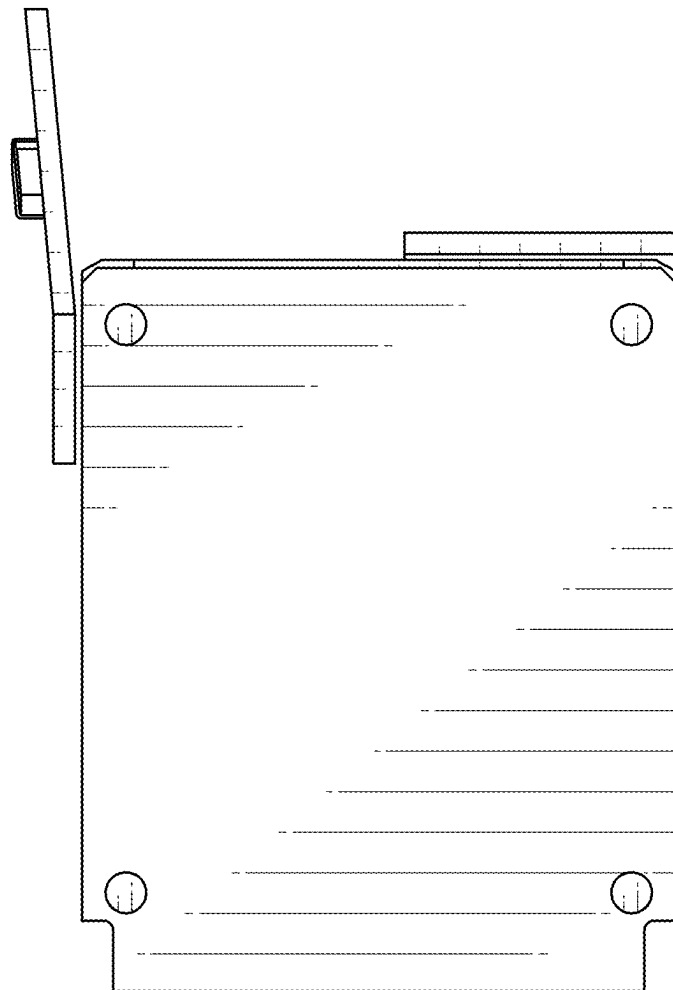
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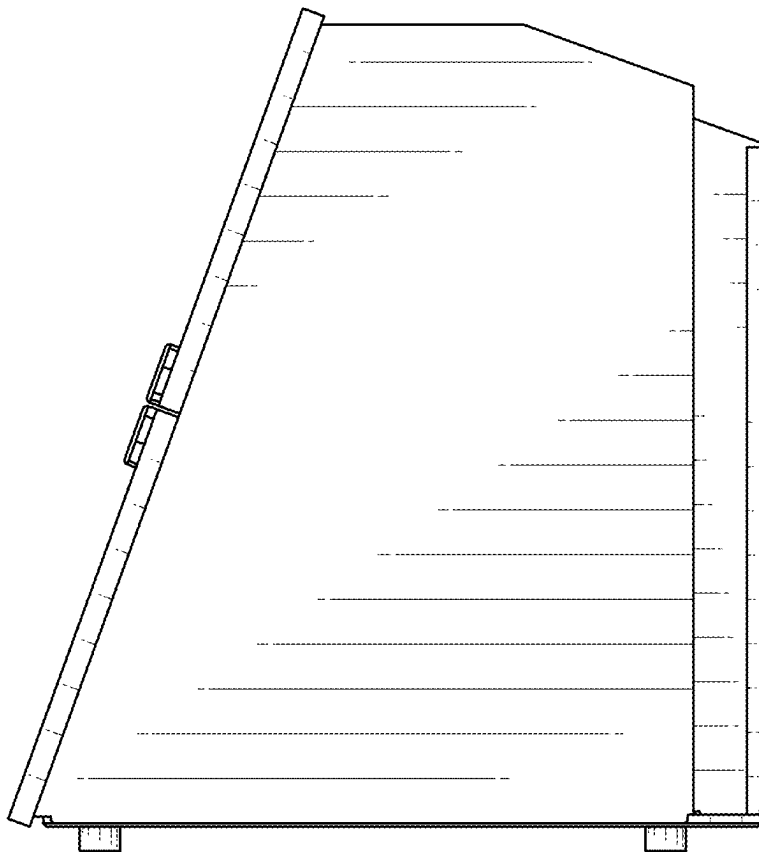
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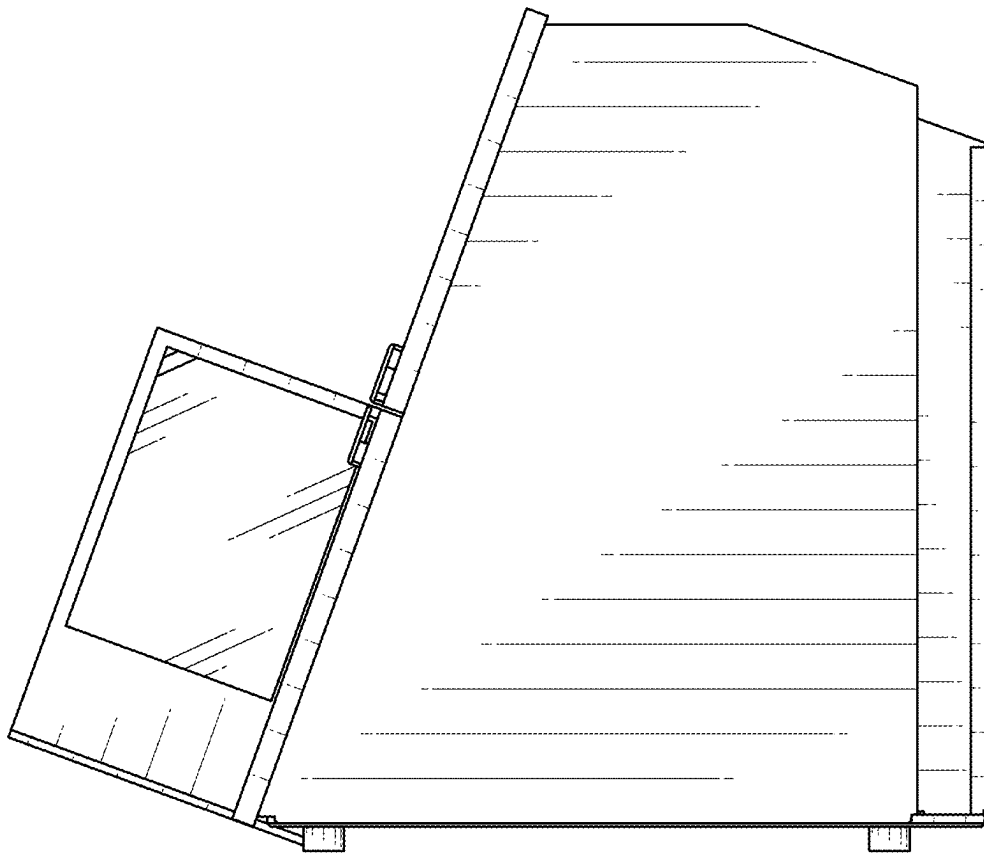
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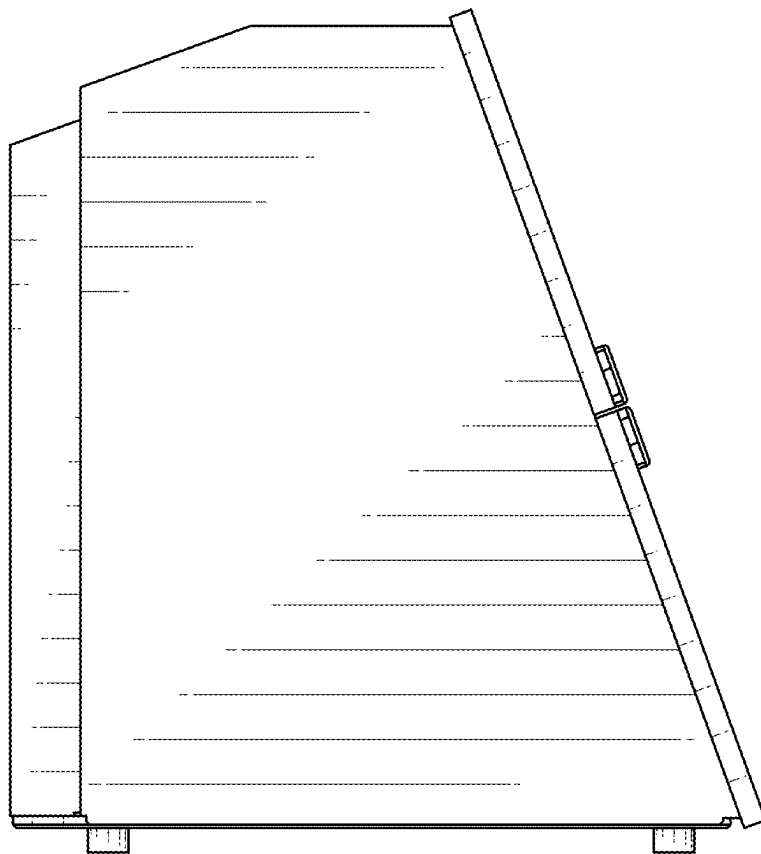
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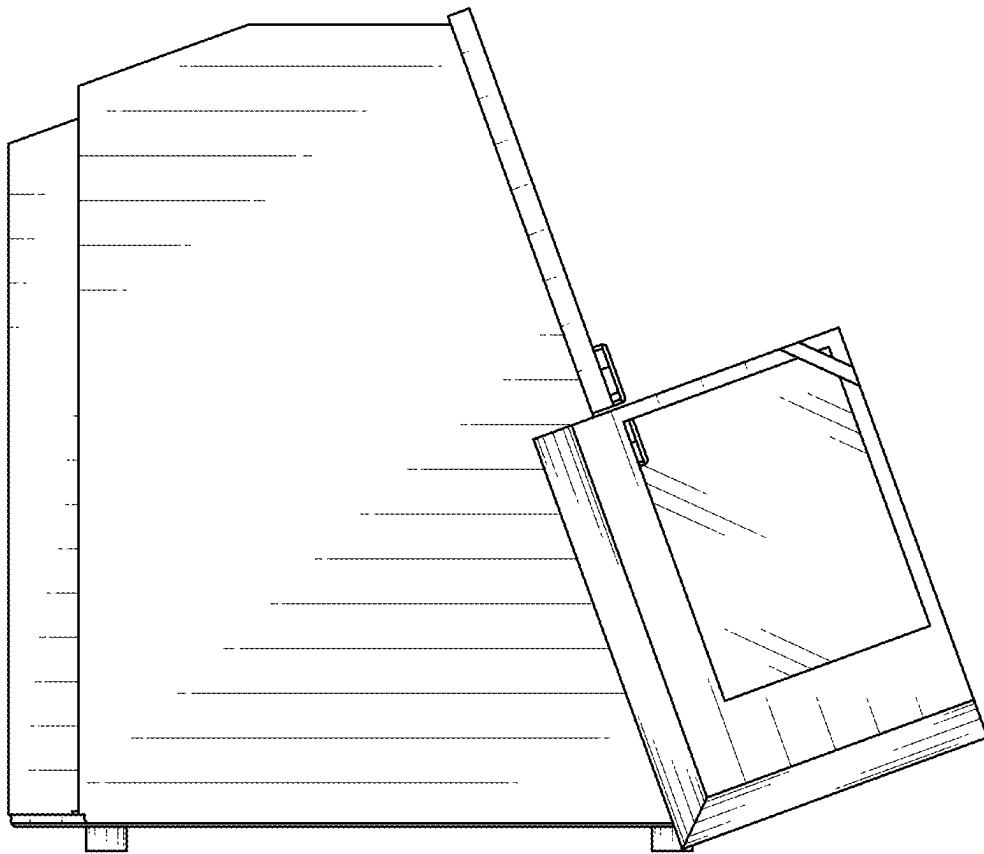
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1.12



1.13



1.14