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

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- (54) **FILTER ASSEMBLY**
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- (\*\*) Term: **15 Years**
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- (52) **U.S. Cl.**  
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- (58) **Field of Classification Search**  
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D23/386, 393; D15/5  
CPC ..... B01D 46/0002; B01D 46/0004; B01D  
46/0005; F24F 8/192; F24F 8/194; F24M  
35/04  
See application file for complete search history.

- 5,846,302 A \* 12/1998 Putro ..... B03C 3/66  
96/66
- D483,845 S \* 12/2003 Arato ..... D23/365
- 6,764,533 B2 \* 7/2004 Lobiondo, Jr. .... B03C 3/155  
55/493
- 6,843,820 B2 \* 1/2005 Kubokawa ..... B01D 46/0005  
55/495

(Continued)

**OTHER PUBLICATIONS**

How to replace a Micro Power Guard Air Filter, Apr. 4, 2015,  
YouTube, site visited Dec. 27, 2021: <https://www.youtube.com/watch?v=MB7nMvG-wR0> (Year: 2015).\*

(Continued)

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(57) **CLAIM**

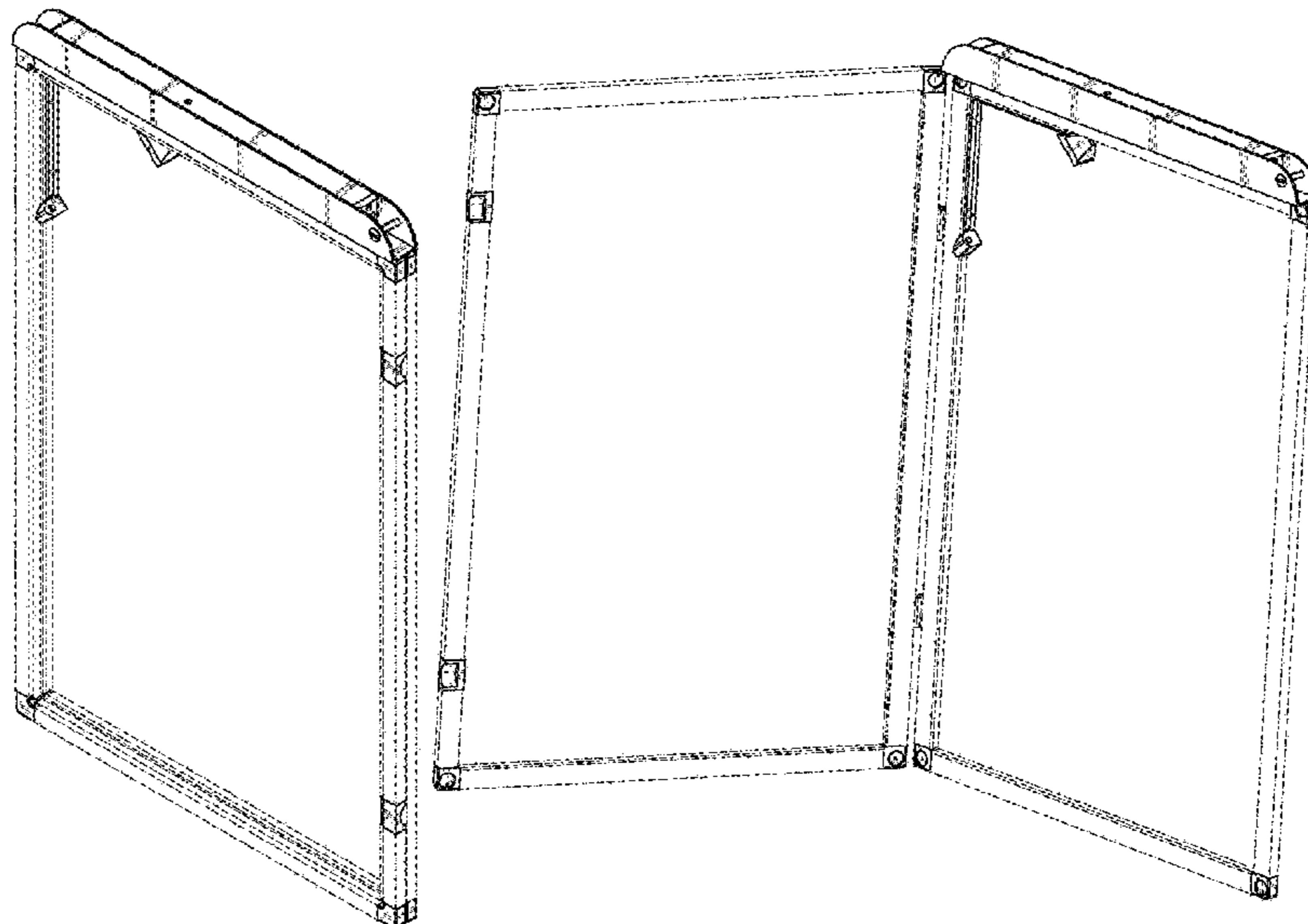
The ornamental design for a filter assembly, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, upper, right side view of the filter assembly;  
FIG. 2 is a rear, lower, left side perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a top view thereof;  
FIG. 8 is a bottom view thereof; and,  
FIG. 9 is a perspective view of the filter assembly shown in  
an open position.  
The broken lines shown in FIGS. 1-6, 8 and 9 illustrate  
portions of the filter assembly that form no part of the  
claimed design.

**1 Claim, 3 Drawing Sheets**

- (56) **References Cited**  
U.S. PATENT DOCUMENTS  
2,739,667 A \* 3/1956 Palmore ..... B01D 35/00  
55/529  
3,027,865 A 1/1959 Kautz et al.  
4,183,029 A 1/1980 Isayama et al.  
4,400,971 A 8/1983 Tassicker  
D298,646 S \* 11/1988 Meyers ..... D23/210  
4,828,586 A \* 5/1989 Joannou ..... B03C 3/155  
96/66  
5,497,099 A 3/1996 Walton  
5,573,577 A \* 11/1996 Joannou ..... B03C 3/155  
96/66  
5,796,472 A 8/1998 Wirthlin



(56)

References Cited

U.S. PATENT DOCUMENTS

6,955,702 B2 \* 10/2005 Kubokawa ..... B01D 46/0005  
55/357  
D526,044 S \* 8/2006 Torichigai ..... D23/209  
7,112,238 B2 \* 9/2006 Joannou ..... B03C 3/155  
96/66  
7,178,410 B2 2/2007 Fraden et al.  
D651,280 S \* 12/2011 Okawa ..... D23/209  
8,231,716 B2 7/2012 Poon  
8,744,780 B2 6/2014 Wilson, Jr. et al.  
D725,254 S \* 3/2015 Roblin ..... D23/365  
9,061,229 B1 6/2015 Wilson, Jr. et al.  
9,101,871 B2 8/2015 Salahshour et al.  
9,304,521 B2 4/2016 Kates  
9,517,429 B2 12/2016 Beier  
9,552,715 B2 1/2017 Breslin  
9,920,947 B2 3/2018 Breslin  
2003/0230062 A1 \* 12/2003 Kubokawa ..... B01D 46/0005  
55/497  
2003/0230063 A1 \* 12/2003 Kubokawa ..... B01D 46/10  
55/497  
2005/0138906 A1 \* 6/2005 Kubokawa ..... B01D 29/96  
55/497

2009/0199526 A1 \* 8/2009 Wallace ..... B01D 46/10  
55/493  
2009/0249957 A1 \* 10/2009 Lackey, Sr. .... B01D 46/0002  
96/11  
2012/0125592 A1 5/2012 Fadell et al.  
2015/0013287 A1 \* 1/2015 Yamaguchi ..... B01D 46/0002  
55/491  
2015/0052978 A1 2/2015 Beier  
2016/0378057 A1 \* 12/2016 Yamaguchi ..... G03G 21/206  
55/492  
2018/0147517 A1 \* 5/2018 Kurita ..... B01D 46/0001  
2018/0361291 A1 \* 12/2018 Trender ..... H04L 12/2801  
2019/0262754 A1 \* 8/2019 Barry ..... B01D 46/0002  
2020/0232593 A1 \* 7/2020 Allard ..... B32B 15/14  
2021/0252443 A1 \* 8/2021 Ramphal ..... B01D 46/0086  
2021/0275952 A1 \* 9/2021 Simmons ..... B01D 46/10

OTHER PUBLICATIONS

Wingman 1 Electronic Air Filter, Jul. 4, 2017, Amazon, site visited  
Dec. 27, 2021: <https://www.amazon.com/dp/B073PK22LL/> (Year:  
2017).\*

\* cited by examiner

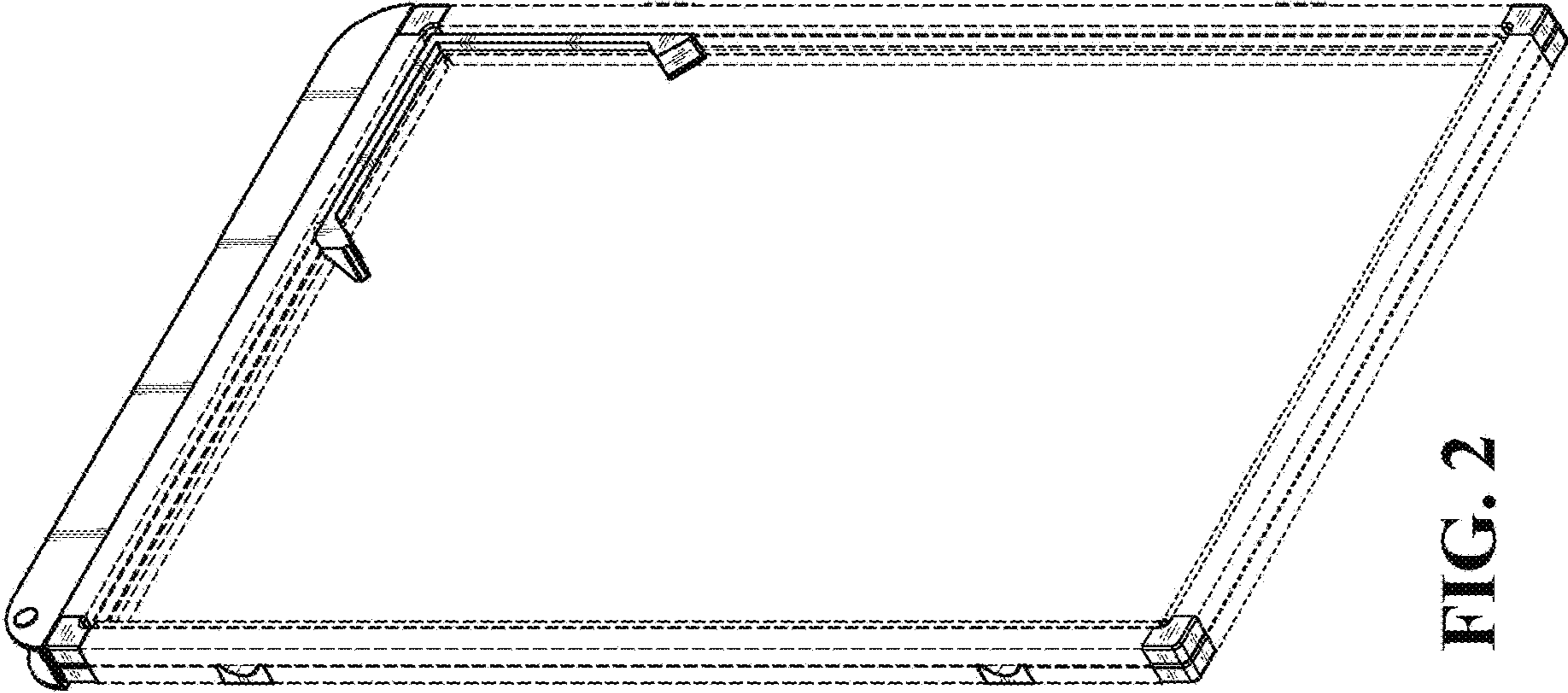


FIG. 2

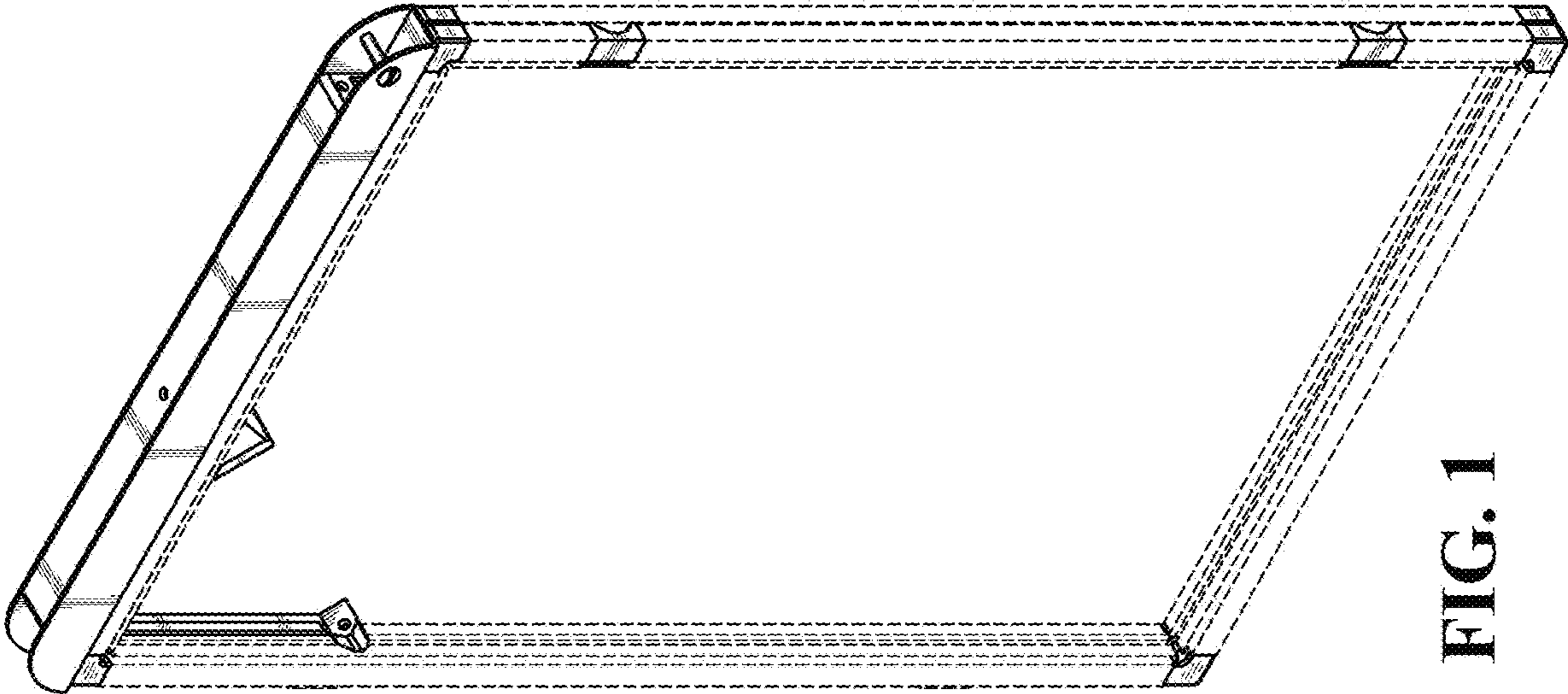


FIG. 1

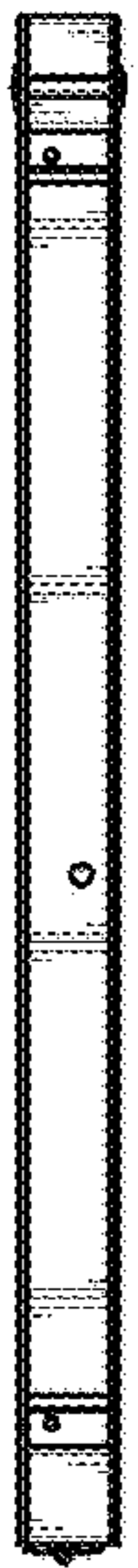


FIG. 7

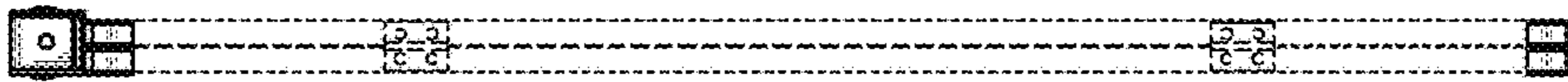


FIG. 5

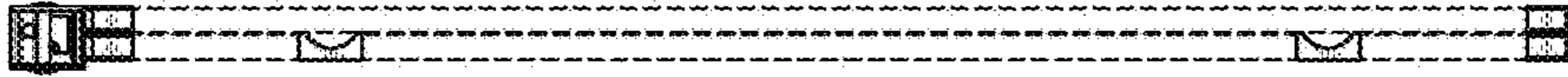


FIG. 6

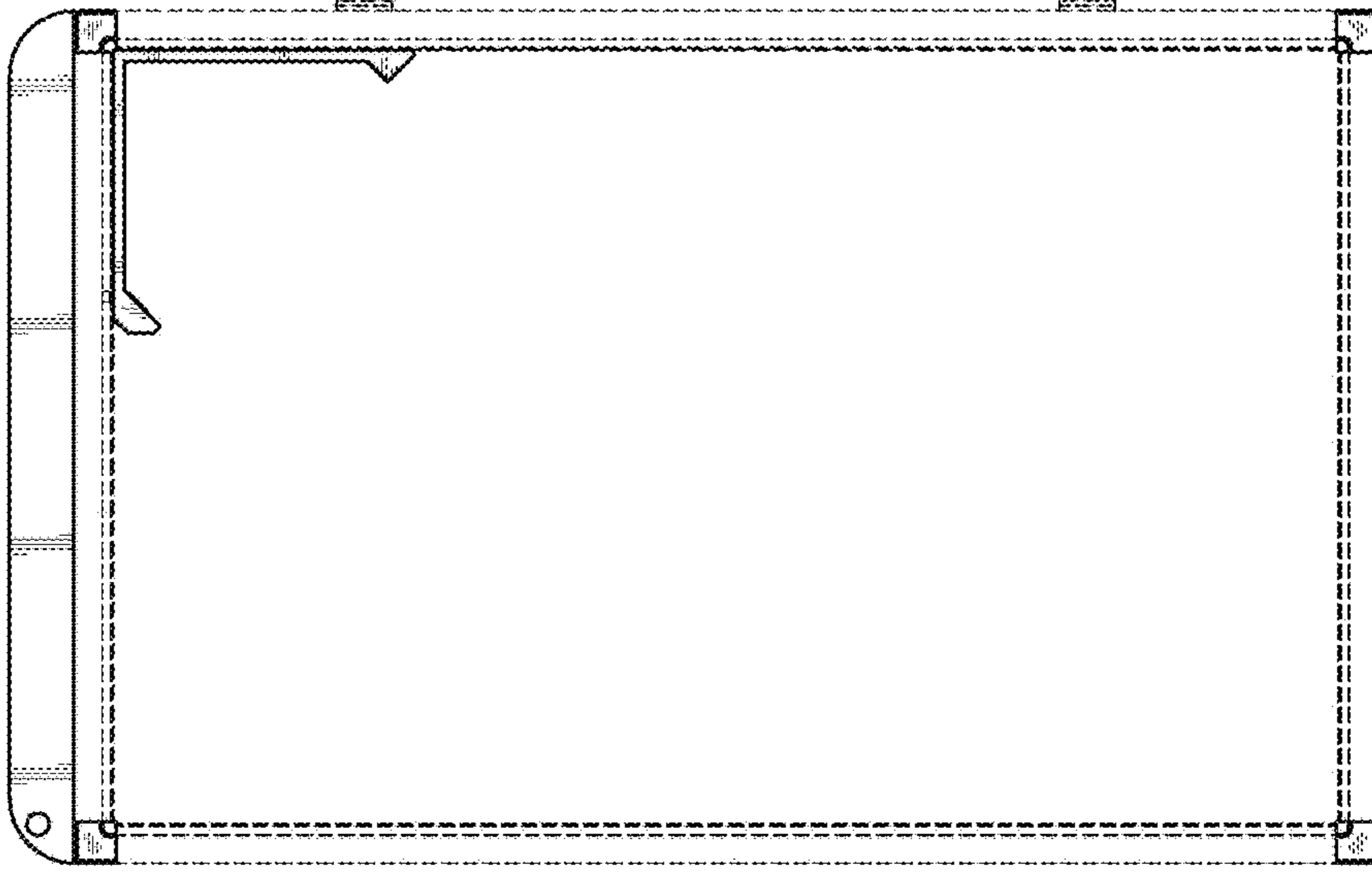


FIG. 4

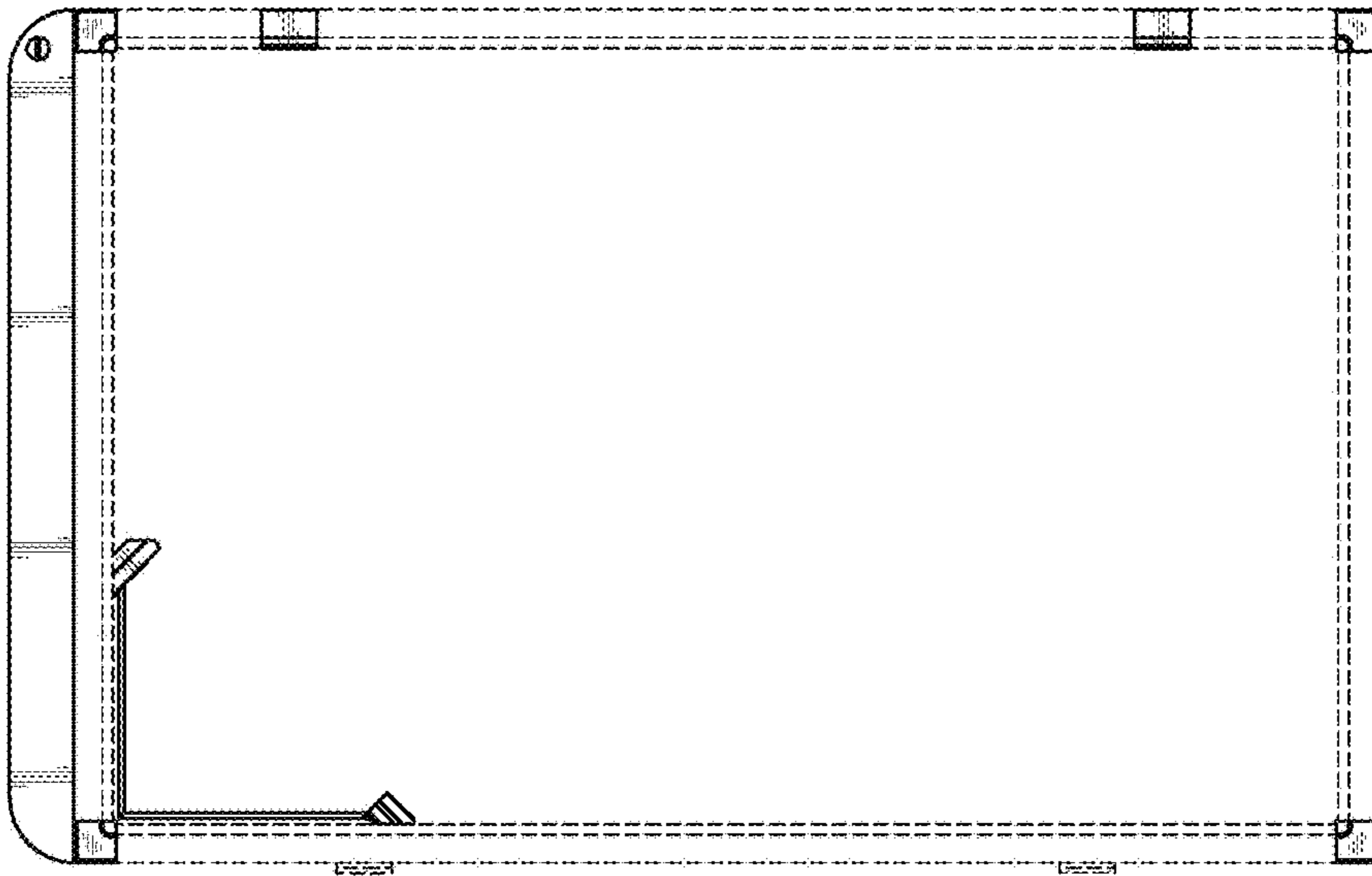


FIG. 3



FIG. 8

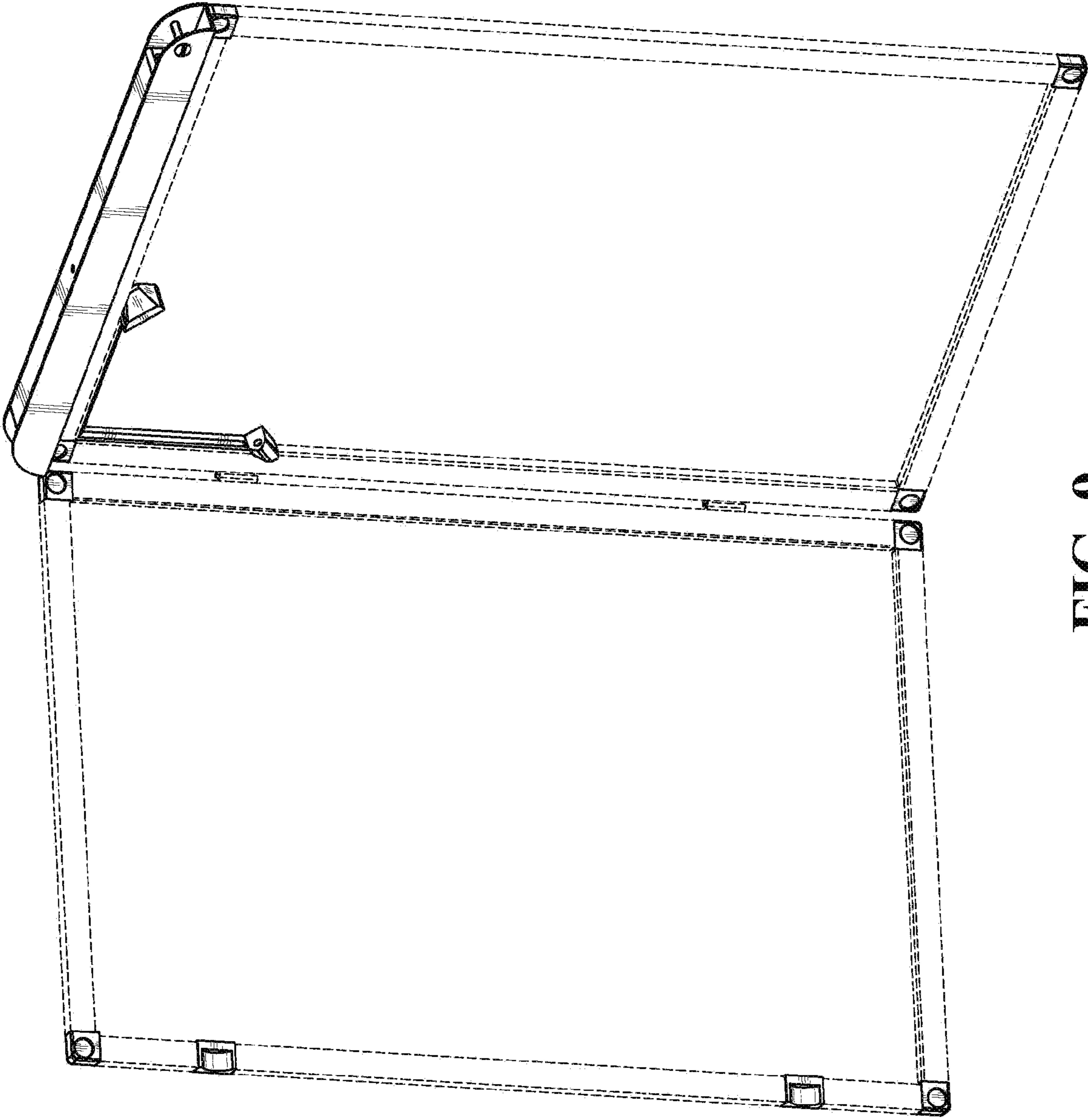


FIG. 9