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(12) **United States Design Patent** (10) **Patent No.:** **US D946,519 S**
Gao et al. (45) **Date of Patent:** **** *Mar. 22, 2022**

(54) **SWEEPER CHARGER**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**
USPC **D13/108**

(58) **Field of Classification Search**

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CPC A47L 5/24; A47L 9/2826; A47L 9/1625; H02J 7/0013; G05D 1/0225; G05D 1/0234; G05D 1/0272; G05D 1/0227

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,573,234 A * 3/1986 Kochte A47L 5/24
15/323

4,591,777 A * 5/1986 McCarty H02J 7/0013
15/DIG. 1

D337,303 S * 7/1993 Naft D13/108

D510,066 S * 9/2005 Hickey D13/108

(Continued)

FOREIGN PATENT DOCUMENTS

TW D188864 S 3/2018

TW D193006 S 9/2018

TW D194415 S 12/2018

OTHER PUBLICATIONS

Taiwanese Office Action corresponding to TW Application No. 108305626 dated Dec. 26, 2019.

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(57) **CLAIM**

The ornamental design for a sweeper charger, as shown and described.

DESCRIPTION

1. Sweeper charger

1.1 : Front

1.2 : Back

1.3 : Right

1.4 : Top

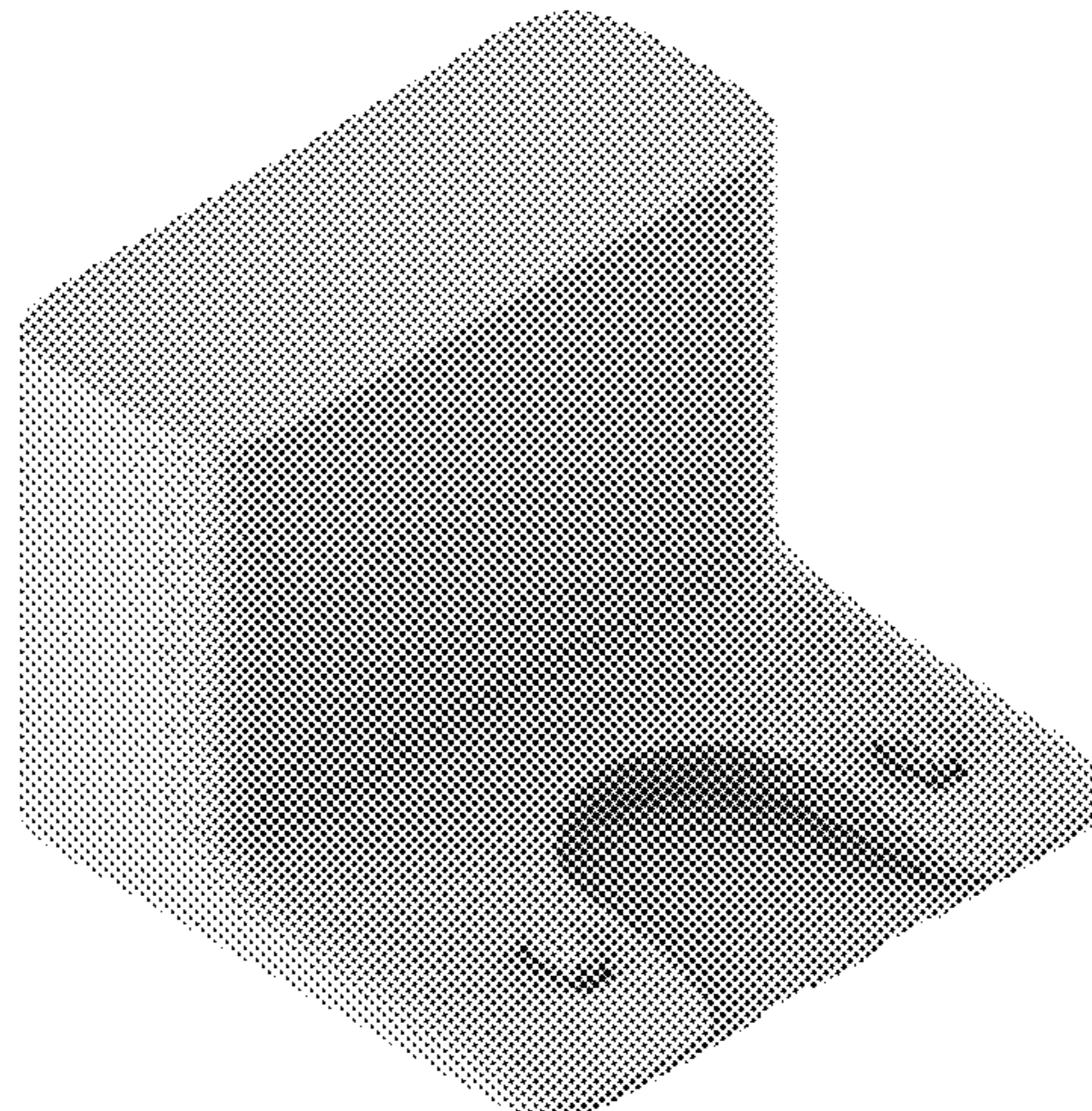
1.5 : Bottom

1.6 : Perspective

1.7 : Perspective

1.1 is a front elevation view of a sweeper charger of our new design; 1.2 is a back elevation view thereof; 1.3 is a right side elevation view thereof; 1.4 is a top plan view thereof; 1.5 is a bottom plan view thereof; 1.6 is a perspective view thereof; and 1.7 is another perspective view thereof; the product incorporating the design is mainly used for charging a sweeper or the like; and the drawing designated to best show the essential features of the design is 1.6.

1 Claim, 7 Drawing Sheets



(56)

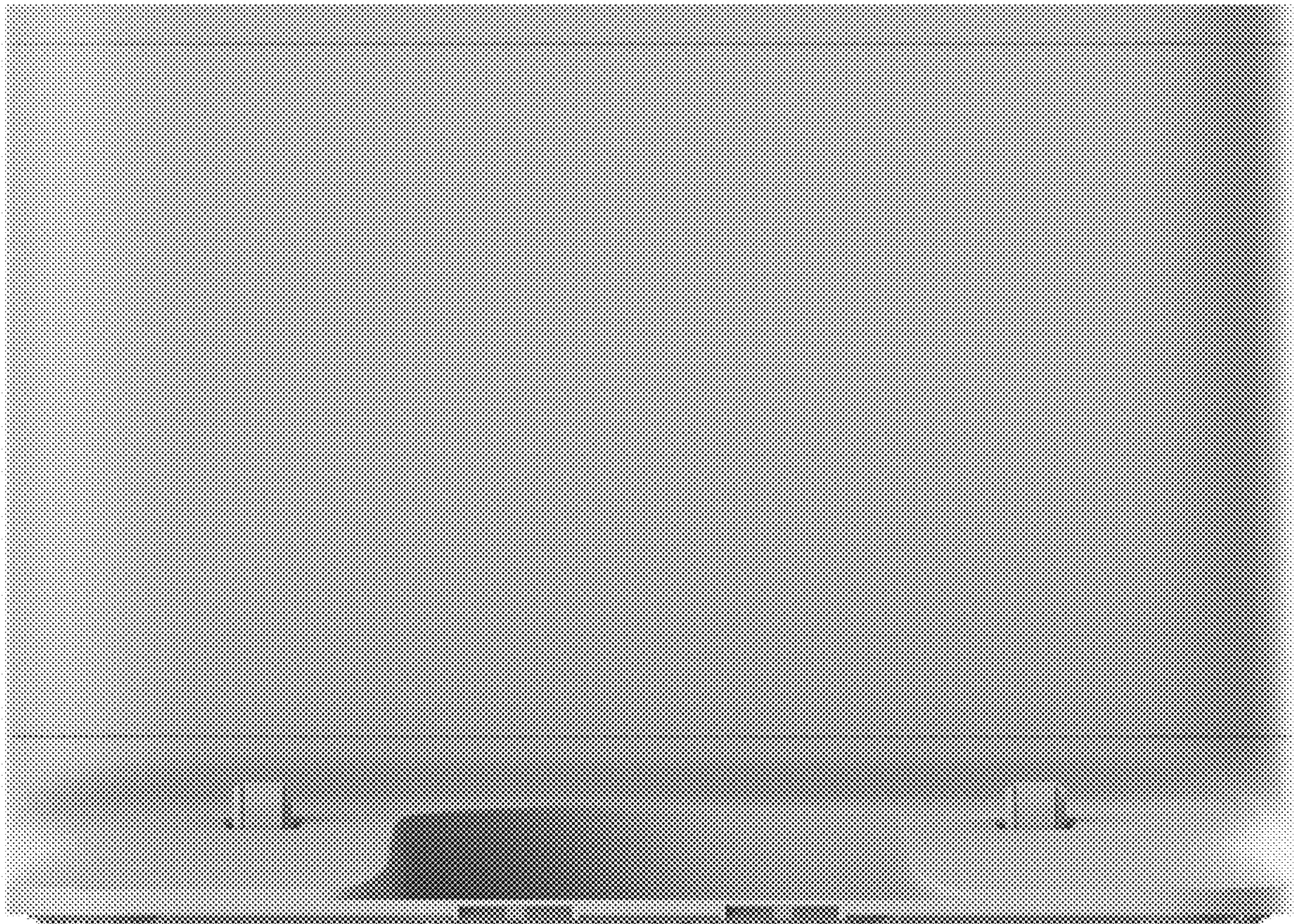
References Cited

U.S. PATENT DOCUMENTS

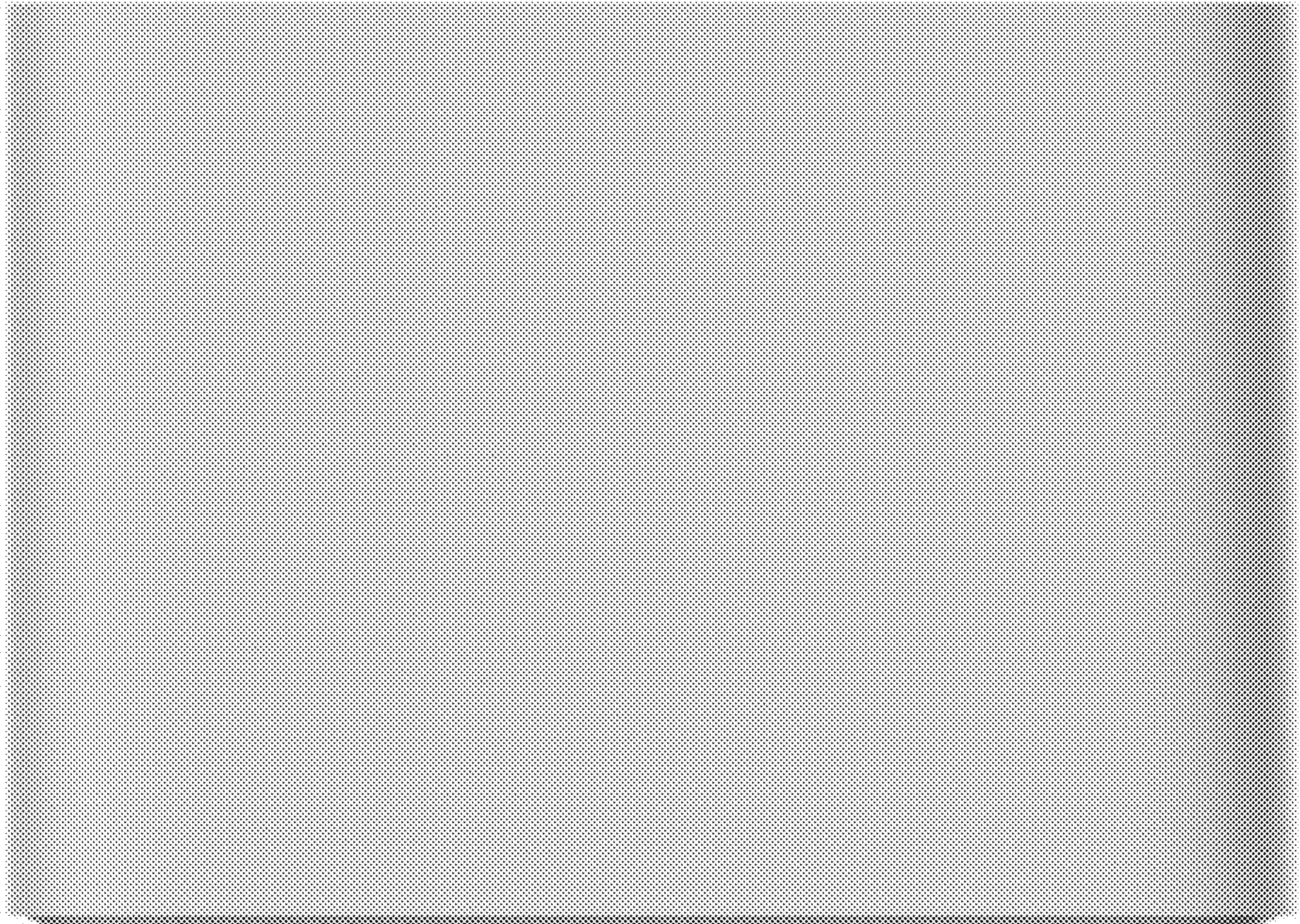
7,055,210 B2 *	6/2006	Keppler	.....	A47L 9/009	15/319	8,898,854 B2 *	12/2014	Tso	.....	A47L 9/2852	15/319
D559,485 S *	1/2008	Fjellman	.....	D13/108		9,134,733 B2 *	9/2015	Yoo	.....	G05D 1/0234	
7,332,890 B2 *	2/2008	Cohen	.....	G05D 1/0227	320/109	D782,412 S *	3/2017	Kim	.....	D13/108	
D566,352 S *	4/2008	Ågren	.....	D13/108		D804,414 S *	12/2017	Tang	.....	D13/108	
D588,059 S *	3/2009	Fujita	.....	D13/108		9,931,007 B2 *	4/2018	Morin	.....	A47L 9/127	
D589,442 S *	3/2009	Crawley	.....	D13/108		D818,433 S *	5/2018	Ebrahimi Afrouzi	.....	D13/108	
D620,882 S *	8/2010	Houghton	.....	D13/108		D818,950 S *	5/2018	Ebrahimi Afrouzi	.....	D13/108	
D628,961 S *	12/2010	Kim	.....	D13/108		D818,951 S *	5/2018	Ebrahimi Afrouzi	.....	D13/108	
D639,237 S *	6/2011	Lee	.....	D13/108		10,143,348 B2 *	12/2018	Machida	.....	A47L 9/2873	
D639,735 S *	6/2011	Lee	.....	D13/108		D847,740 S *	5/2019	Yamanouchi	.....	D13/108	
D647,475 S *	10/2011	Spencer	.....	D13/108		D849,682 S *	5/2019	Dou	.....	D13/108	
D656,459 S *	3/2012	Crawley	.....	D13/108		D860,934 S *	9/2019	Ebrahimi Afrouzi	.....	D13/108	
D675,154 S *	1/2013	Nam	.....	D13/108		D867,987 S *	11/2019	Mi	.....	D13/108	
D691,553 S *	10/2013	Deoksang	.....	D13/108		D896,750 S *	9/2020	Tokoi	.....	D13/108	
D698,310 S *	1/2014	Yun	.....	D13/108		D897,949 S *	10/2020	Pearce	.....	D13/108	
8,660,736 B2 *	2/2014	Chen	.....	G05D 1/0225	701/24	D897,956 S *	10/2020	Yang	.....	D13/108	
8,756,751 B2 *	6/2014	Jung	.....	A47L 9/2805	15/319	D906,236 S *	12/2020	Tat	.....	D13/108	
8,825,256 B2 *	9/2014	Kim	.....	A47L 9/2852	701/23	D908,083 S *	1/2021	Kuang	.....	D13/107	
D719,911 S *	12/2014	Lathrop	.....	D13/108		D908,992 S *	1/2021	Jang	.....	D32/30	
						2004/0158357 A1 *	8/2004	Lee	.....	G05D 1/0272	700/258
						2008/0174268 A1 *	7/2008	Koo	.....	G05D 1/0234	320/109
						2012/0086389 A1 *	4/2012	Li	.....	G05D 1/0225	320/107
						2019/0328189 A1 *	10/2019	Singh	A47L 9/1625	
						2020/0298415 A1 *	9/2020	Sun	A47L 9/2826	

* cited by examiner

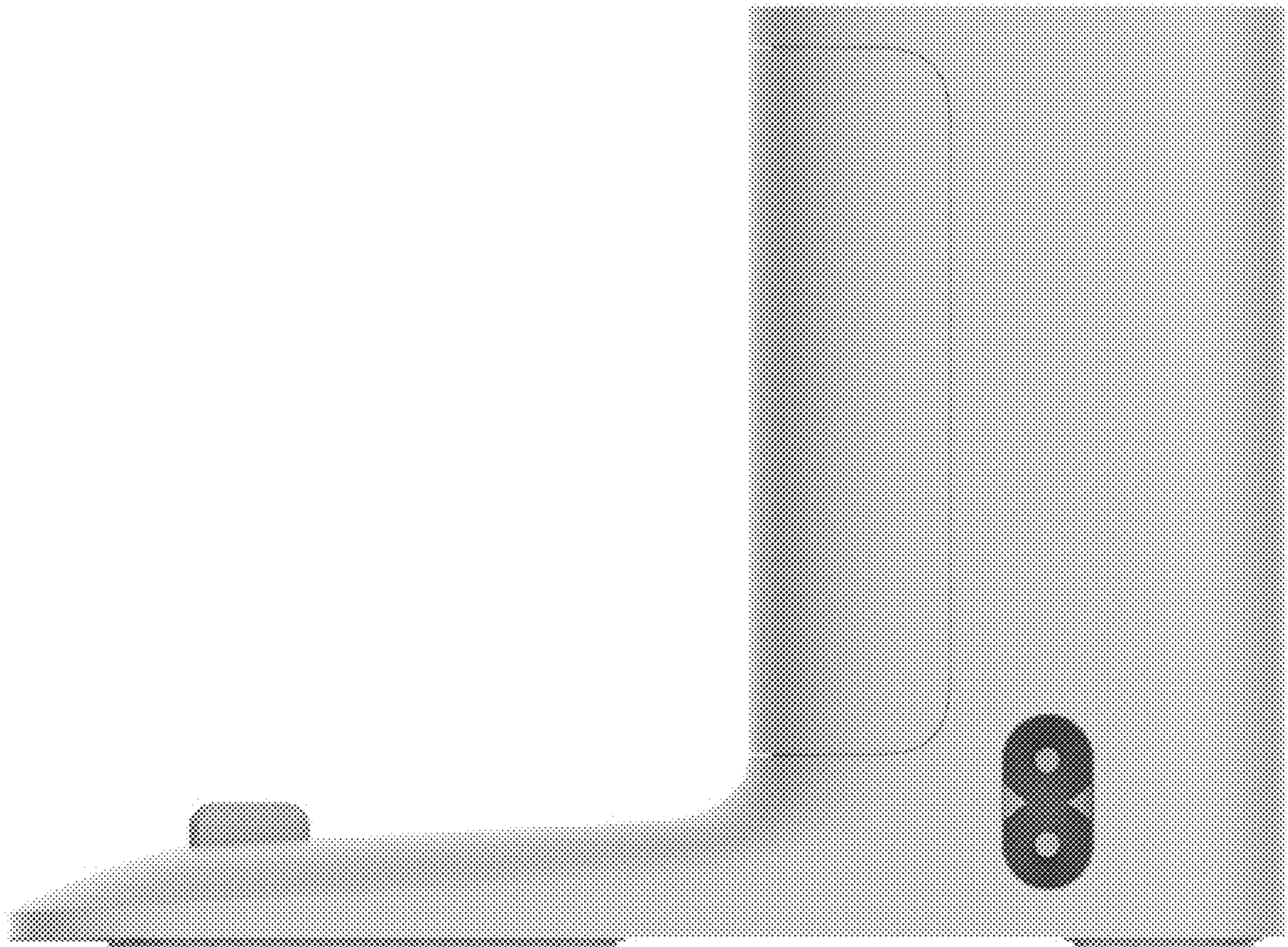
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1.2



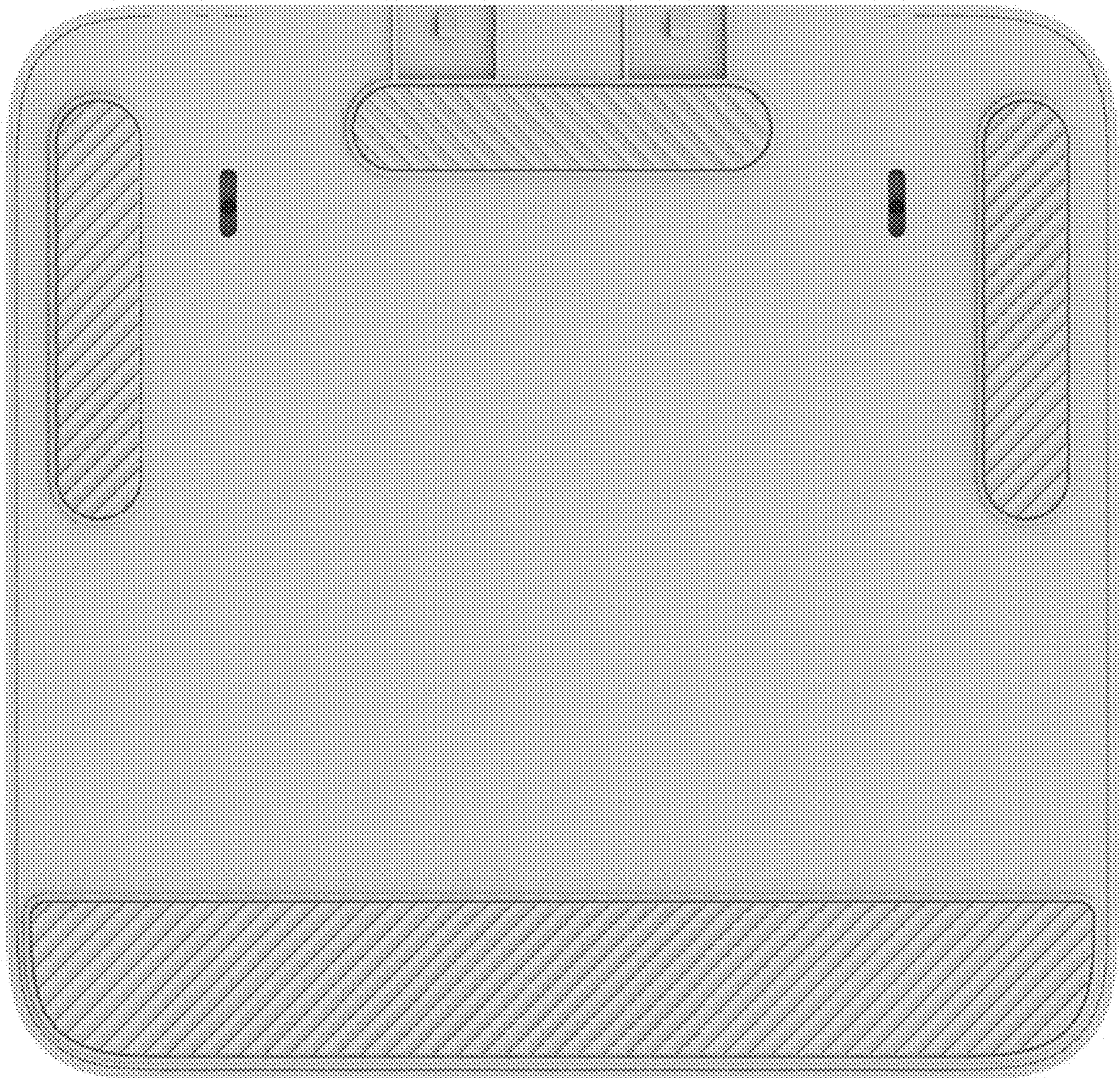
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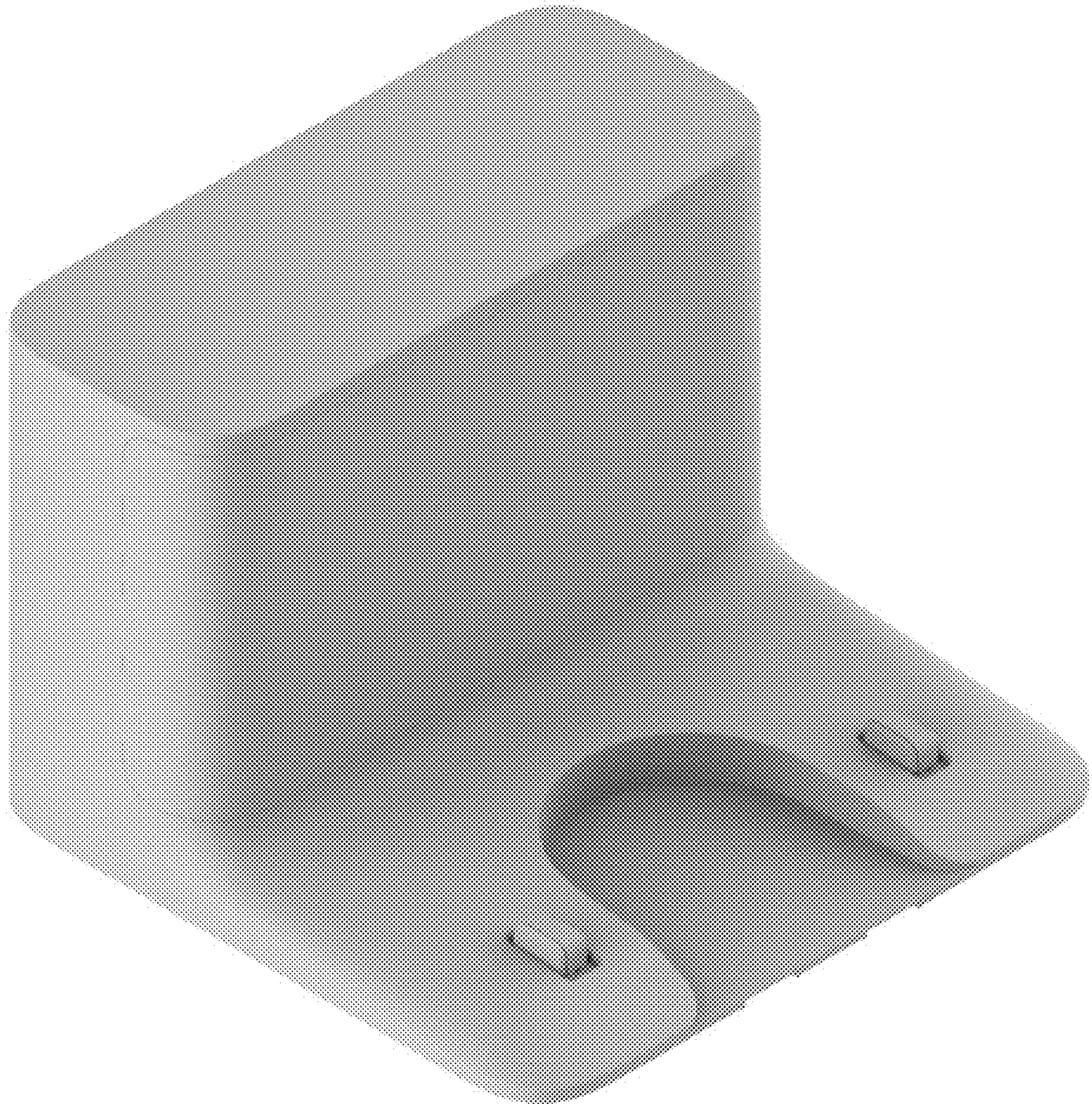
1.4



1.5



1.6



1.7

