



US00D979040S

(12) **United States Design Patent** (10) **Patent No.:** **US D979,040 S**
Yan et al. (45) **Date of Patent:** **** Feb. 21, 2023**

(54) **COOLING FAN**

(56) **References Cited**

(71) Applicant: **Gree Electric Appliances, Inc. of Zhuhai, Zhuhai (CN)**
(72) Inventors: **Weikang Yan, Guangdong (CN); Sha Li, Guangdong (CN); Jingjing Wang, Guangdong (CN); Xue Zhang, Guangdong (CN); Yiwen Song, Guangdong (CN); Cong Xiao, Guangdong (CN)**

U.S. PATENT DOCUMENTS

D329,284 S *	9/1992	Patton	D23/378
D389,567 S *	1/1998	Gudefin	D23/370
D464,723 S *	10/2002	Fok	D23/378
D479,874 S *	9/2003	Shapiro	D23/378
D483,466 S *	12/2003	Shapiro	D23/378
D483,851 S *	12/2003	Fok	D23/378
D486,217 S *	2/2004	Shapiro	D23/378
D513,071 S *	12/2005	Lee	D23/378
D517,190 S *	3/2006	Wang	D23/378
D522,124 S *	5/2006	Bucher	D23/378
D546,932 S *	7/2007	Bucher	D23/378
D595,395 S *	6/2009	Lewis	D23/314
D814,000 S *	3/2018	Qiao	D23/333
D854,670 S *	7/2019	Fang	D23/352
D854,671 S *	7/2019	Fang	D23/352
D854,672 S *	7/2019	Fang	D23/352
D879,938 S *	3/2020	Rubin	D23/378
D888,223 S *	6/2020	Yuan	D23/378
D906,507 S *	12/2020	Kimball	D23/378
D910,828 S *	2/2021	Kimball	D23/378
D912,234 S *	3/2021	Liu	D23/351
D933,190 S *	10/2021	Sakamoto	D23/378
D937,400 S *	11/2021	Hong	D23/370
D945,590 S *	3/2022	Zhao	D23/378
D963,146 S *	9/2022	Huang	D23/378

(**) Term: **15 Years**
(21) Appl. No.: **35/511,715**
(22) Filed: **Jan. 21, 2021**
(80) **Hague Agreement Data**
Int. Filing Date: **Jan. 21, 2021**
Int. Reg. No.: **DM/213717**
Int. Reg. Date: **Jan. 21, 2021**
Int. Reg. Pub. Date: **Apr. 23, 2021**

(Continued)

(30) **Foreign Application Priority Data**
Aug. 13, 2020 (CN) 202030460935.4
(51) **LOC (14) Cl.** **23-04**
(52) **U.S. Cl.**
USPC **D23/378**
(58) **Field of Classification Search**
USPC D23/314, 325, 328, 332, 333, 335, 336,
D23/337, 341, 342, 351, 352, 364,
D23/370-382, 386, 387, 393, 411-414
CPC F04D 3/00; F04D 17/00; F04D 25/08;
F04D 25/88; F04D 29/34; F04D 29/388;
F04D 29/403; F04D 29/601; F04D
29/703; F04D 29/4226
See application file for complete search history.

Primary Examiner — Keli L Hill

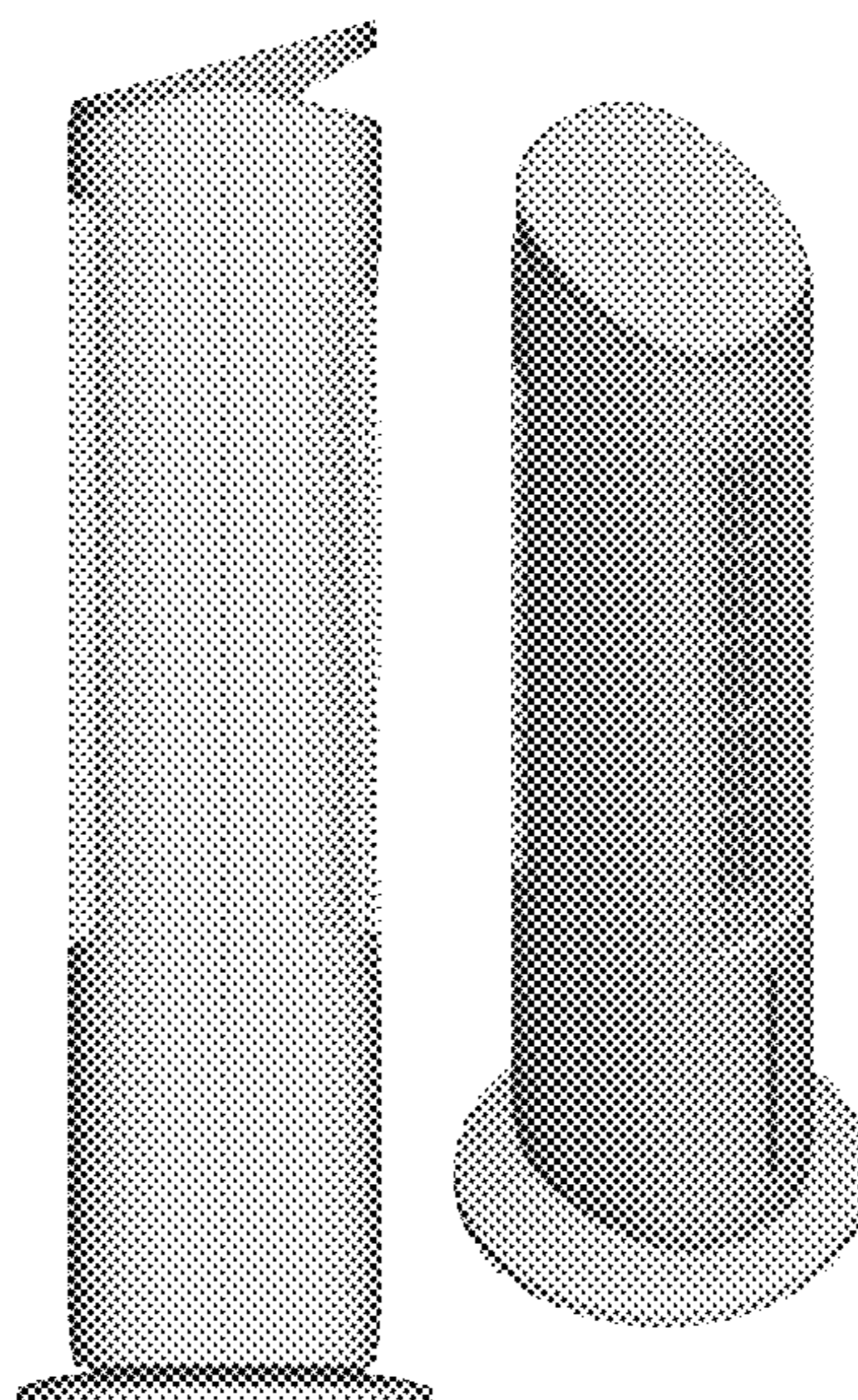
(57) **CLAIM**

The ornamental design for a cooling fan, as shown and described.

DESCRIPTION

- 1. Cooling fan
- 1.1 : Front
- 1.2 : Back
- 1.3 : Left
- 1.4 : Right
- 1.5 : Top
- 1.6 : Bottom
- 1.7 : Perspective

1 Claim, 7 Drawing Sheets



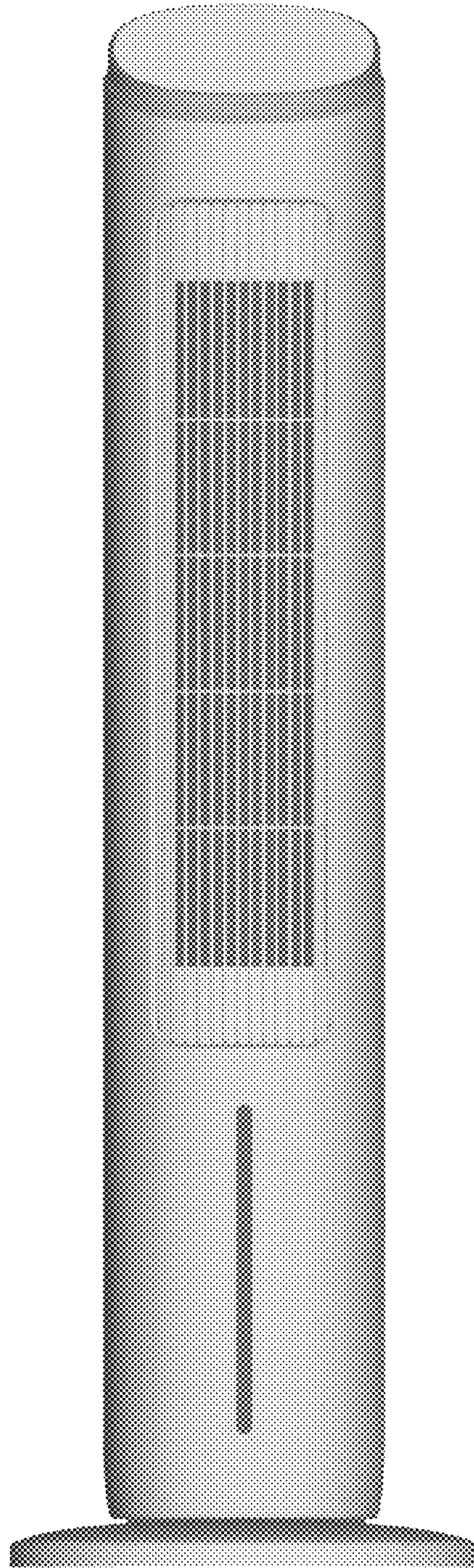
(56)

References Cited

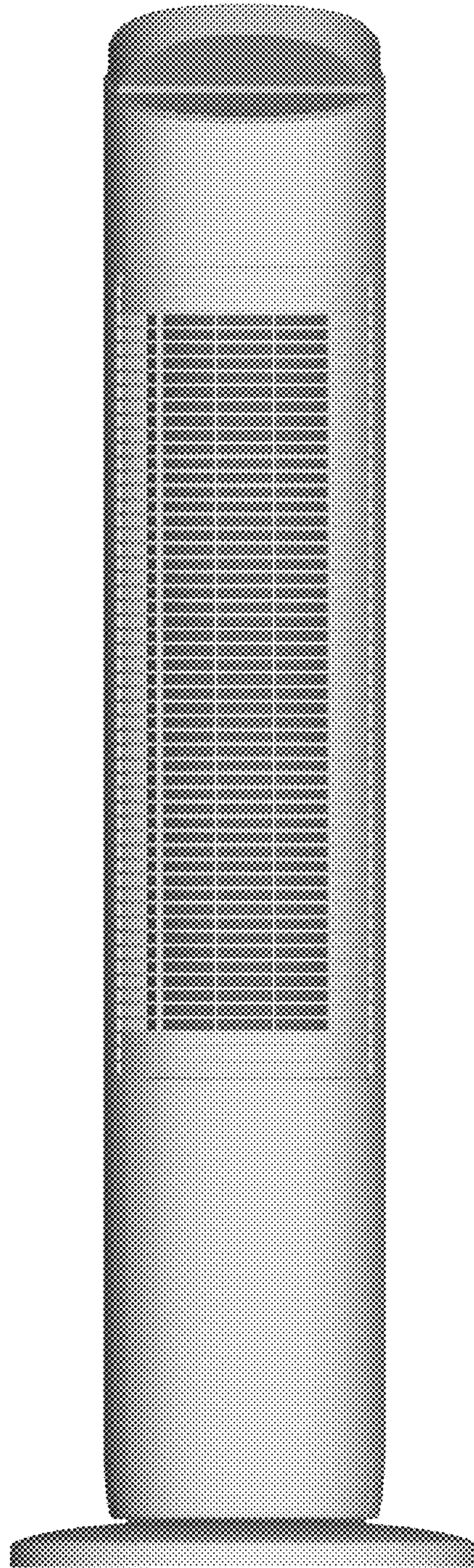
U.S. PATENT DOCUMENTS

D963,147 S * 9/2022 Lin F04D 25/08
D23/378
D964,542 S * 9/2022 Hong D23/378
D967,390 S * 10/2022 Shang 379/385

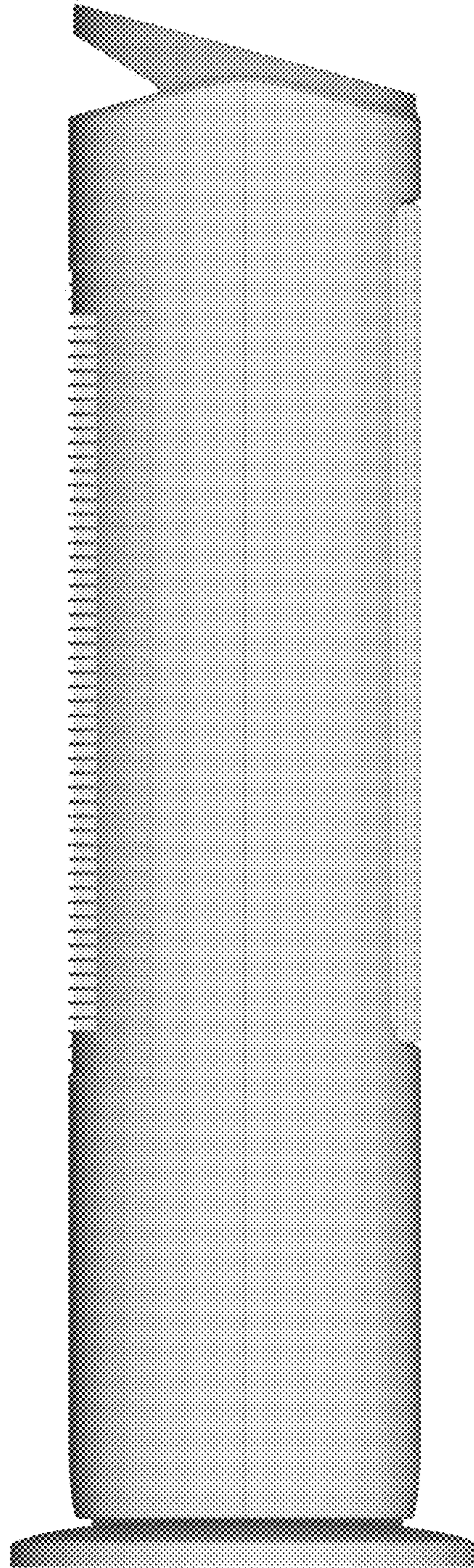
* cited by examiner

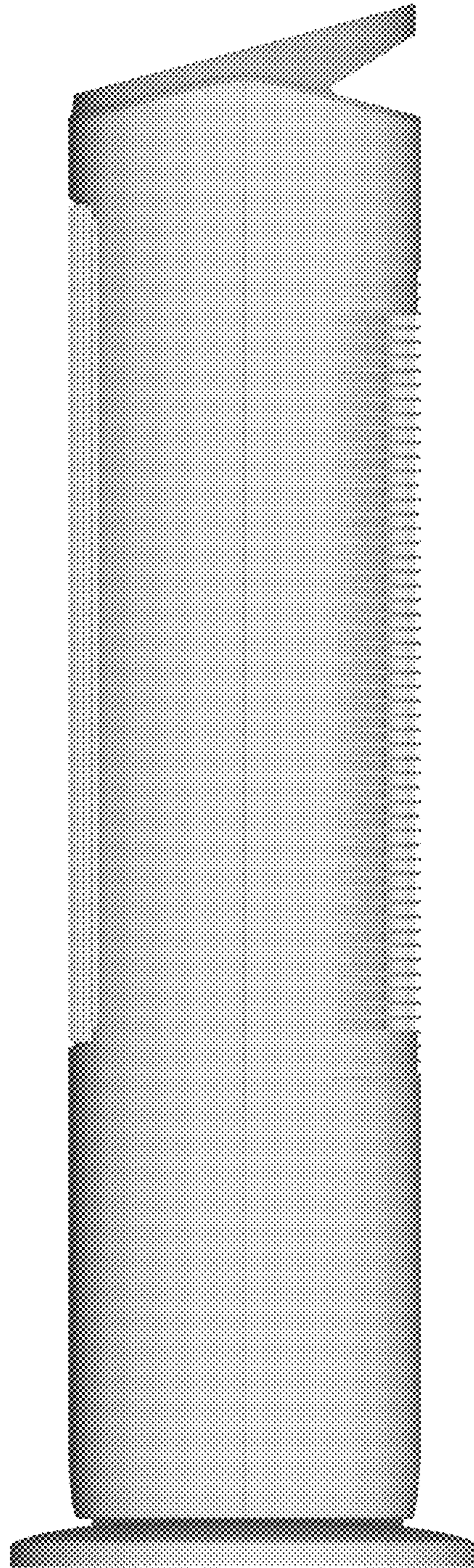


1.1

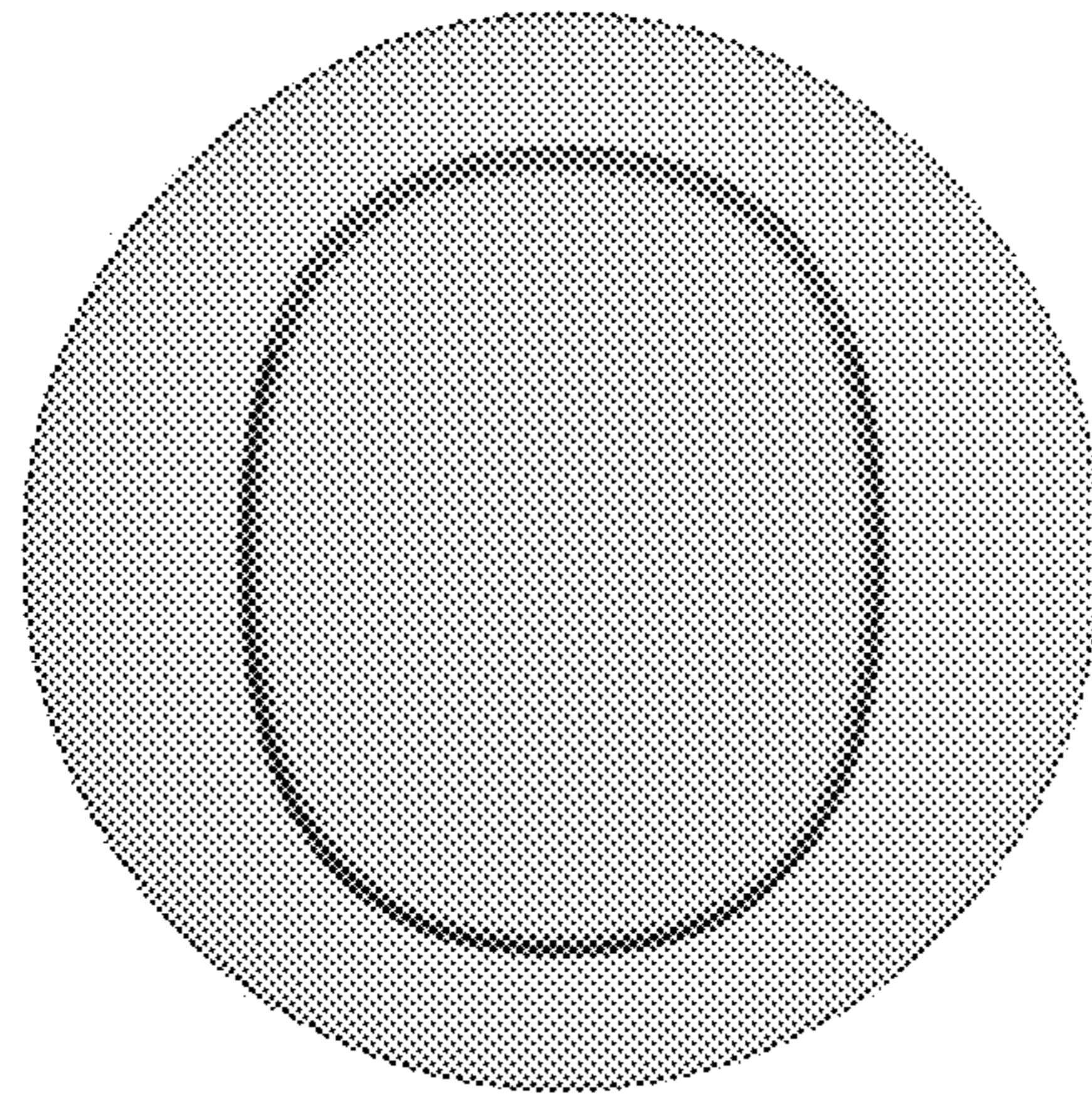


1.2

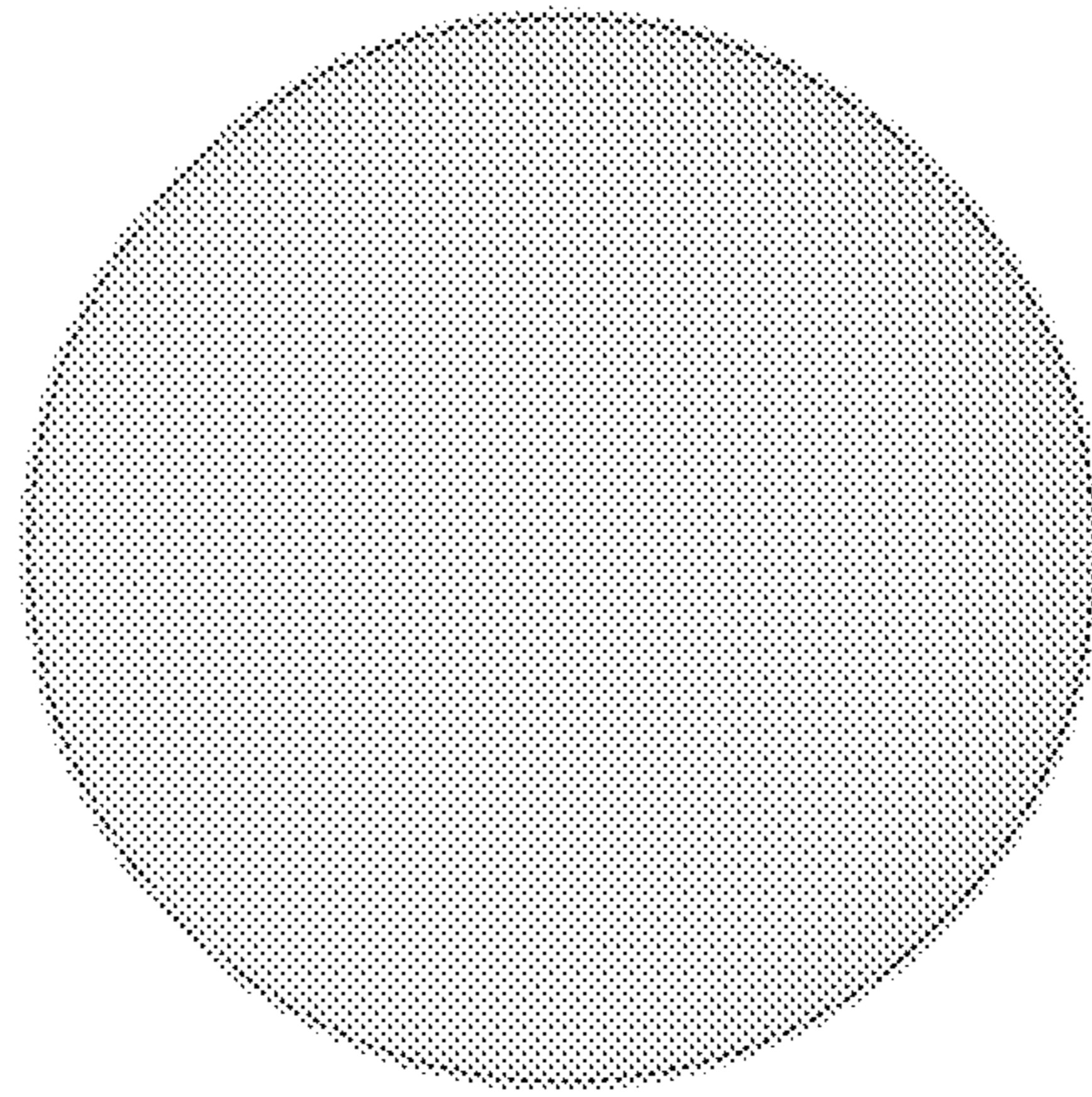




1.4



1.5



1.6

