



US00D870691S

(12) **United States Design Patent** (10) **Patent No.:** **US D870,691 S**  
**Chen et al.** (45) **Date of Patent:** **\*\* Dec. 24, 2019**

(54) **HOME AUTOMATION HUB**  
(71) Applicant: **SHANGHAI ZHANGMEN SCIENCE AND TECHNOLOGY CO., LTD.**, Shanghai (CN)  
(72) Inventors: **Danian Chen**, Shanghai (CN); **Cong Zhu**, Shanghai (CN)  
(73) Assignee: **SHANGHAI ZHANGMEN SCIENCE AND TECHNOLOGY CO., LTD.**, Shanghai (CN)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **35/505,235**  
(22) Filed: **Dec. 1, 2017**

(80) **Hague Agreement Data**  
Int. Filing Date: **Dec. 1, 2017**  
Int. Reg. No.: **DM/101756**  
Int. Reg. Date: **Dec. 1, 2017**  
Int. Reg. Pub. Date: **Jul. 6, 2018**

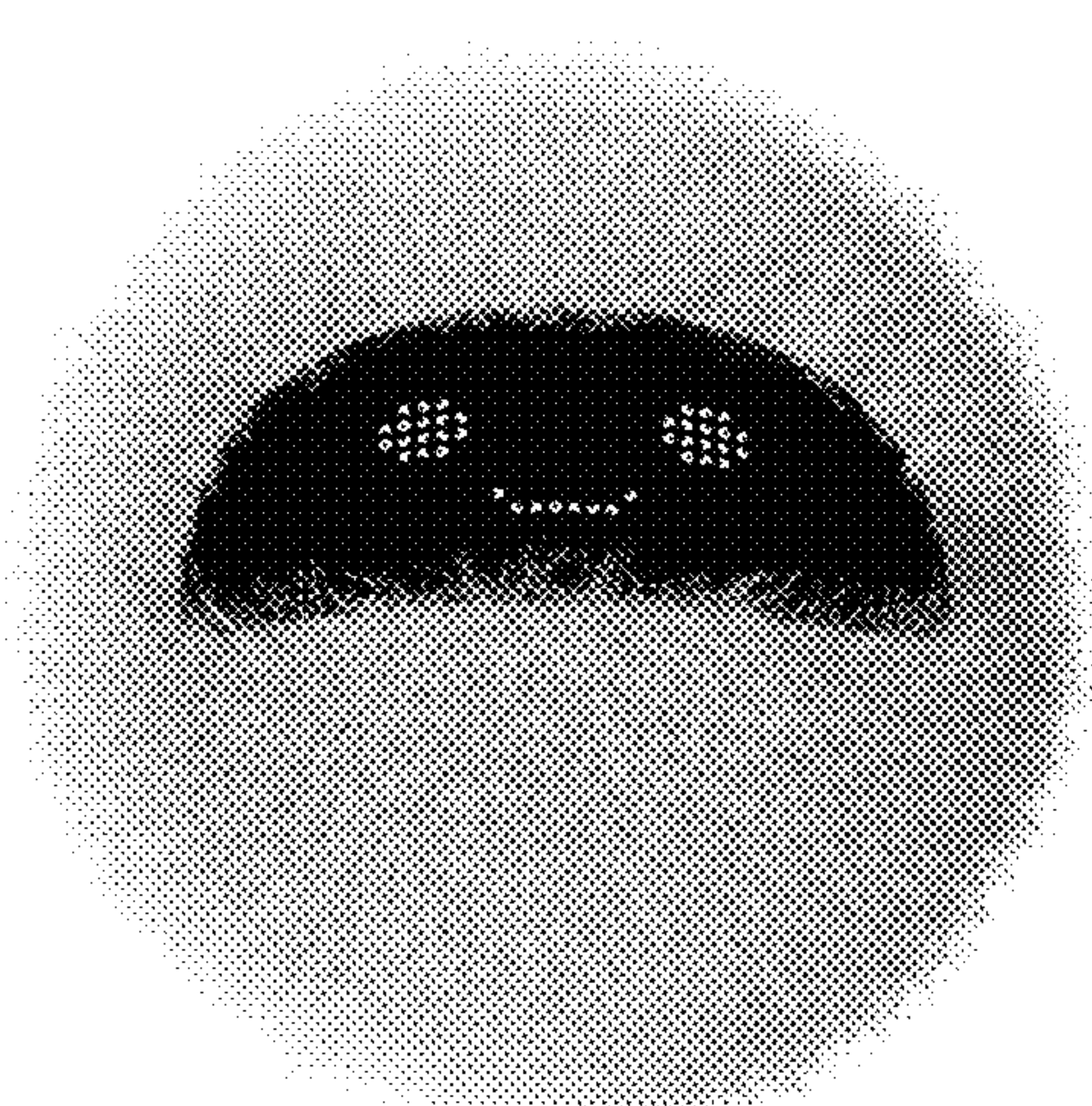
(30) **Foreign Application Priority Data**  
Jun. 8, 2017 (CN) ..... 2017 3 0230343  
(51) **LOC (12) Cl.** ..... **14-03**  
(52) **U.S. Cl.**  
USPC ..... **D14/159**  
(58) **Field of Classification Search**  
USPC ..... D14/125-134, 136, 159, 239, 336, 342, D14/371, 374-377, 440, 450, 448; D21/329, 331, 333, 433, 448, 452, 450, D21/505, 515, 577, 622; D10/15, 26; D6/300, 477, 479; D24/185; D34/14  
CPC ... G06F 1/1601; G06F 1/1643; H05K 5/0004; H05K 5/0017; H05K 5/02; H05K 5/0217  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
D666,575 S \* 9/2012 Marsh ..... D14/159  
D705,189 S \* 5/2014 Chovin ..... D14/159  
D722,032 S \* 2/2015 Chou ..... D14/125  
D780,729 S \* 3/2017 Shin ..... D14/242  
D781,274 S \* 3/2017 Kim ..... D14/242  
D783,581 S \* 4/2017 Kim ..... D14/242  
D794,599 S \* 8/2017 Reed ..... D14/159  
(Continued)

*Primary Examiner* — Darlington Ly  
(74) *Attorney, Agent, or Firm* — Margaret Polson; Polson Intellectual Property Law, PC

(57) **CLAIM**  
The ornamental design for a home automation hub, as shown and described.

**DESCRIPTION**  
The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.  
1.-2. Home automation hub  
1.1 is a front elevation view of a home automation hub showing our new design in accordance to a first embodiment;  
1.2 is a rear elevation view thereof;  
1.3 is a left side elevation view thereof;  
1.4 is a right side elevation view thereof;  
1.5 is a top plan view thereof; and  
1.6 is a bottom plan view thereof.  
2.1 is a front elevation view of a home automation hub showing our new design in accordance to a second embodiment;  
2.2 is a rear elevation view thereof;  
2.3 is a left side elevation view thereof;  
2.4 is a right side elevation view thereof;  
(Continued)



2.5 is a top plan view thereof; and  
2.6 is a bottom plan view thereof.

**1 Claim, 12 Drawing Sheets**  
**(12 of 12 Drawing Sheet(s) Filed in Color)**

(56) **References Cited**

U.S. PATENT DOCUMENTS

|                 |        |          |       |            |
|-----------------|--------|----------|-------|------------|
| D810,709 S *    | 2/2018 | Jou      | ..... | D14/125    |
| 10,004,451 B1 * | 6/2018 | Proud    | ..... | A61M 21/02 |
| 10,055,946 B2 * | 8/2018 | Gelonese | ..... | G08B 5/36  |
| 10,058,290 B1 * | 8/2018 | Proud    | ..... | A61B 5/749 |

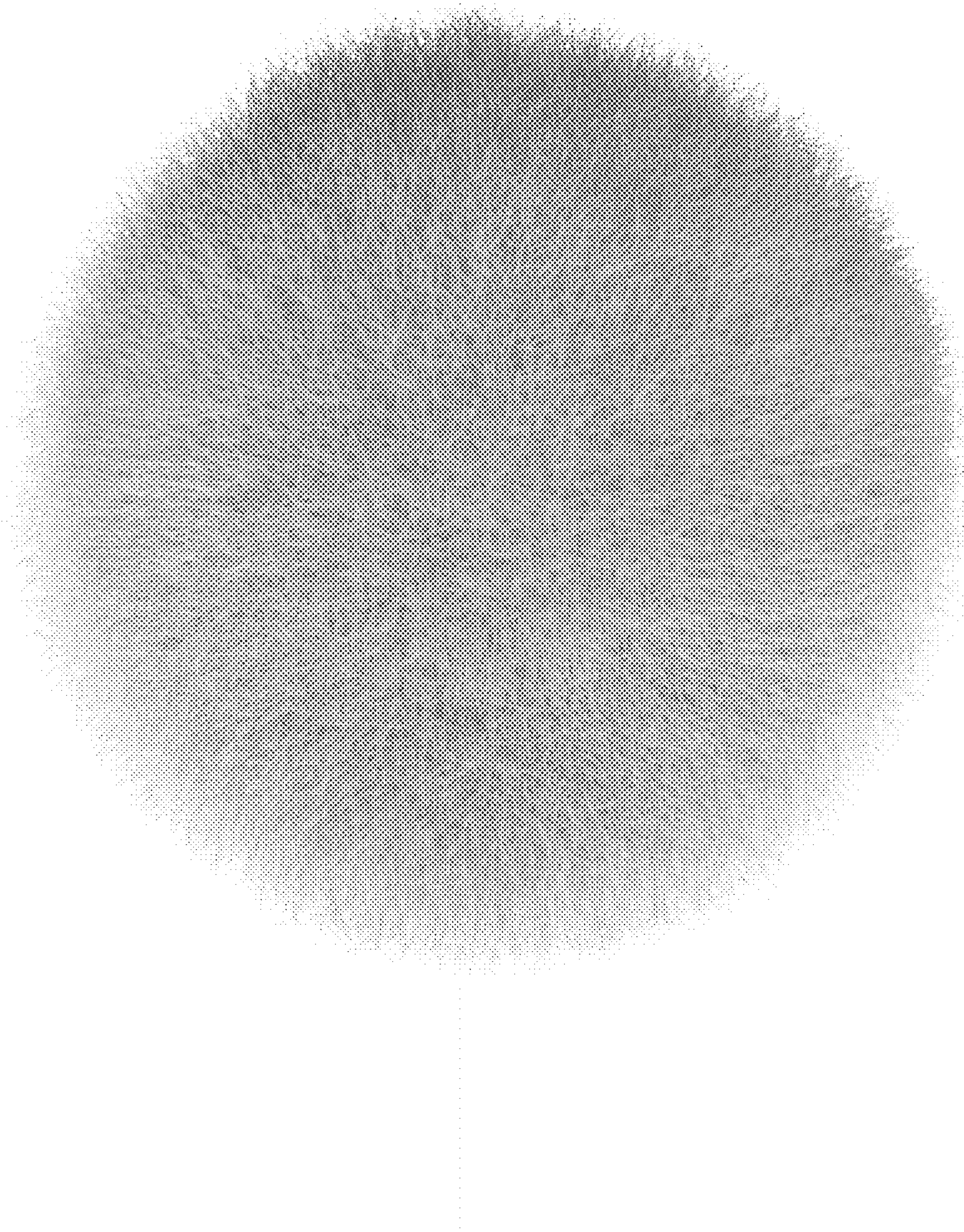
\* cited by examiner





1.1





1.2





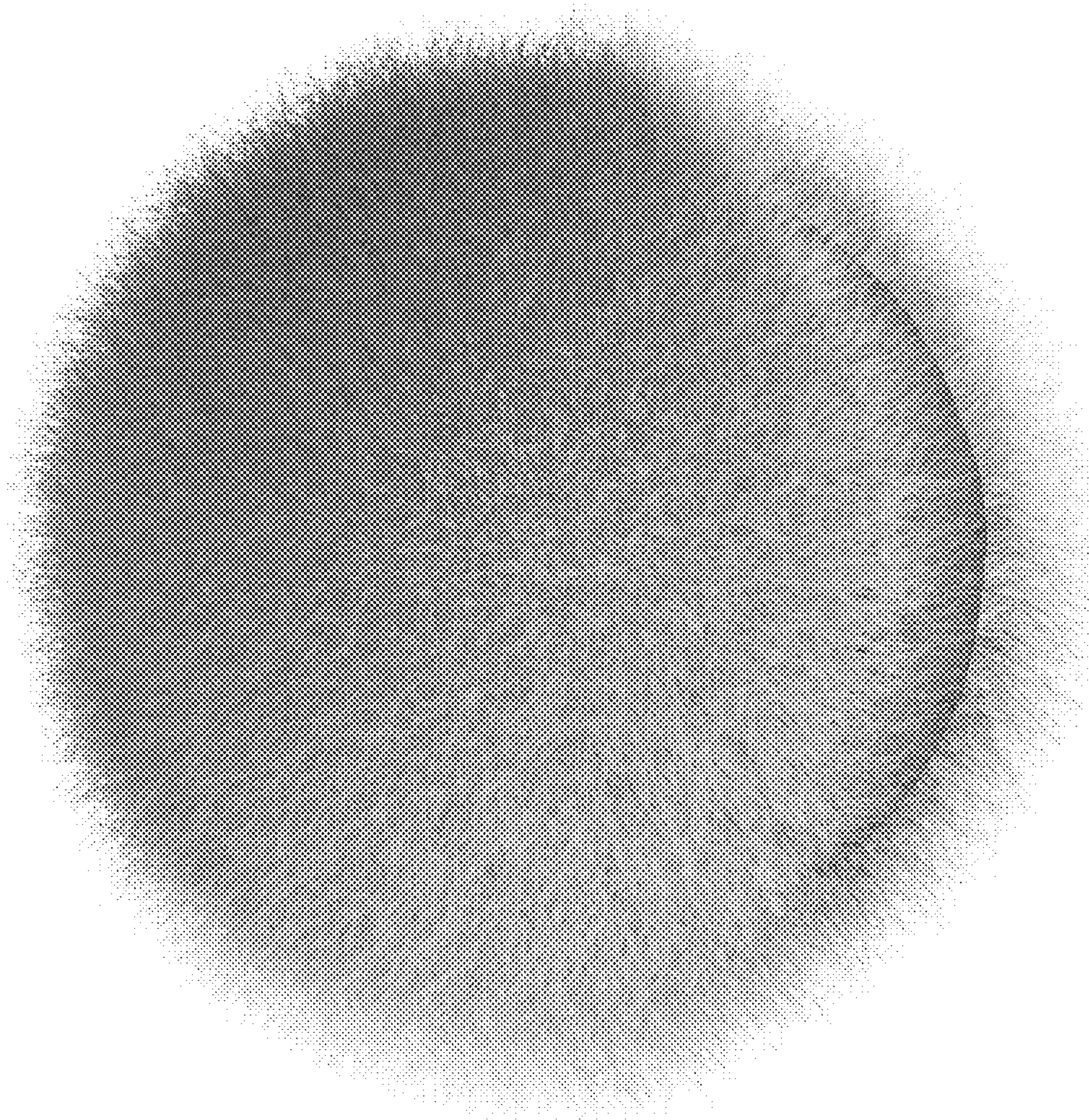
1.3





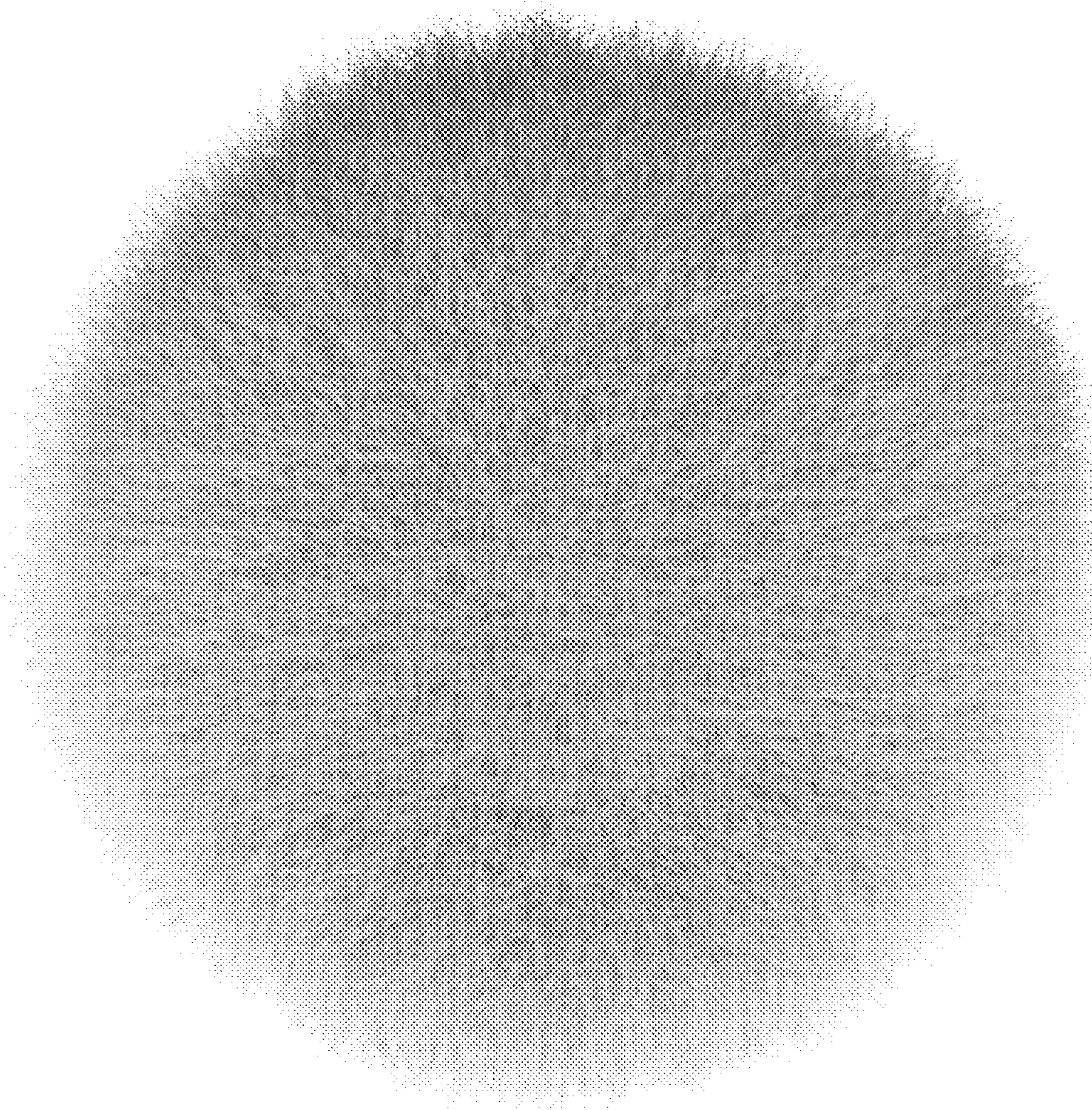
1.4





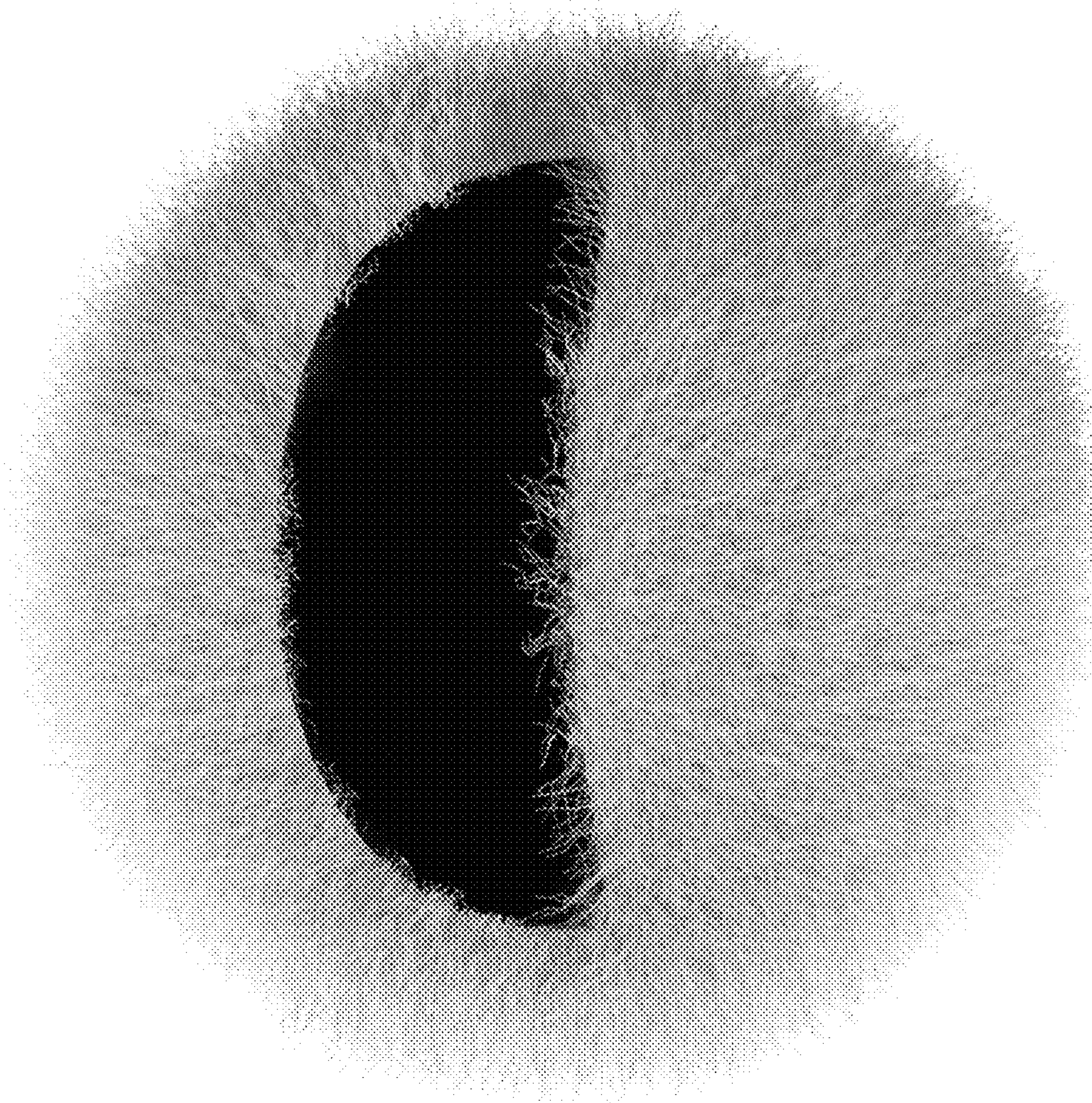
1.5





1.6





2.1





2.2





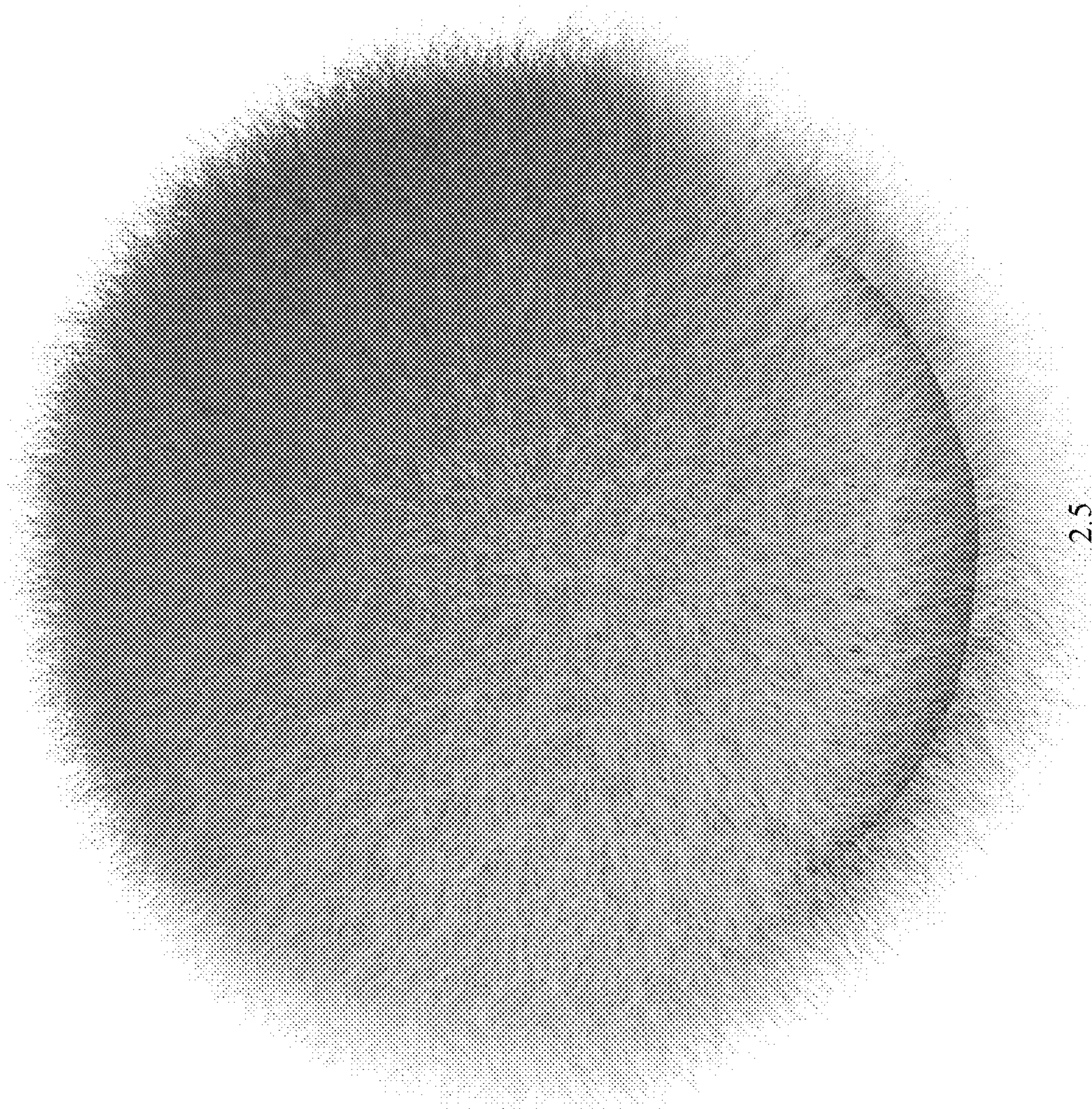
2.3





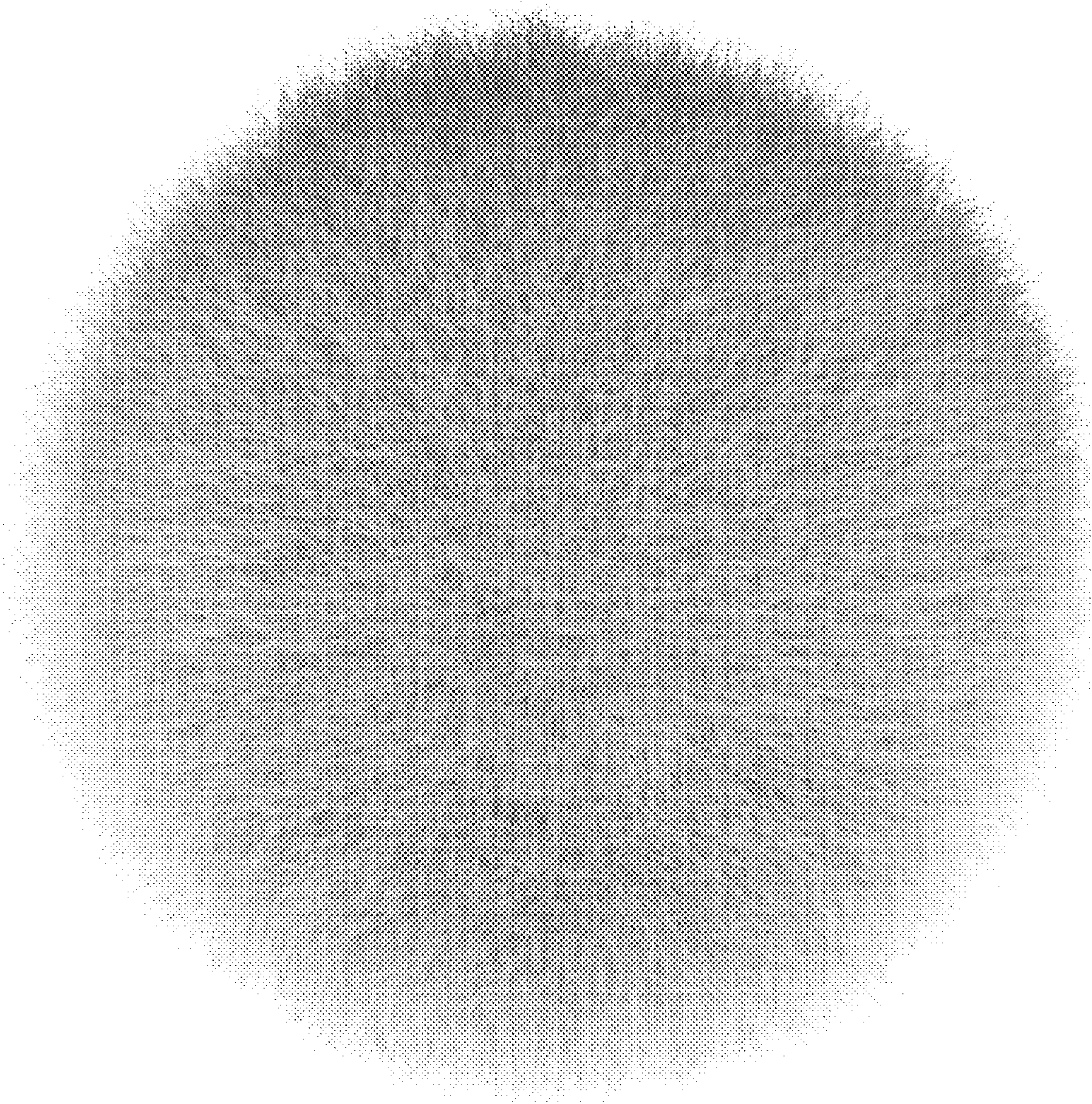
2.4





25





2.6