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

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- (54) **ELECTRONIC KEY**
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- (52) **U.S. Cl.**
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- (58) **Field of Classification Search**
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D3/207, 208
CPC A44B 15/00; A44B 15/005; A44B 17/00;
A44B 17/0041; E05B 19/00; E05B 19/04;
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See application file for complete search history.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
2,883,851 A * 4/1959 Gold A44B 15/00
70/456 R
3,086,268 A * 4/1963 Chaffin, Jr. A41F 1/002
24/303
3,177,546 A * 4/1965 Bey A44B 15/002
24/303

- 4,432,219 A * 2/1984 Bassett E05B 19/00
70/456 R
- D290,311 S * 6/1987 Metzger D11/220
- 4,803,467 A * 2/1989 Peters E05B 45/10
200/61.64
- D322,370 S * 12/1991 Cross D10/74
- D334,528 S * 4/1993 Franklin D8/347
- D343,783 S * 2/1994 Zaugg D8/347
- D378,465 S * 3/1997 Fekete D11/79
- D380,896 S * 7/1997 Grant D3/208
- D397,866 S * 9/1998 Hartmann D3/212
- 6,016,676 A * 1/2000 McConnell A44B 15/005
70/395
- D434,344 S * 11/2000 Nezu D11/200
- D442,061 S * 5/2001 Harris D8/346
- 6,248,451 B1 * 6/2001 Smith A44B 15/005
40/634
- D454,079 S * 3/2002 Fong D10/40
- D478,720 S * 8/2003 Lo D3/209
- D495,585 S * 9/2004 Osada D8/347
- 6,812,817 B2 * 11/2004 Thibideau A44B 15/005
335/285
- D502,182 S * 2/2005 Mitchell D14/436
- D538,033 S * 3/2007 Schaecken D3/207

(Continued)

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(57) **CLAIM**
The ornamental design for an electronic key, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of an electronic key according to our new design;
FIG. 2 is a front side view thereof;
FIG. 3 is a rear side view thereof;
FIG. 4 is a right side view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D538,628 S * 3/2007 O. Johansson D8/347
 D557,588 S * 12/2007 Stifle D8/347
 D562,778 S * 2/2008 Bonnaud D13/168
 D575,629 S * 8/2008 Kim D8/347
 7,423,867 B2 * 9/2008 Yamamoto G07C 9/00944
 340/502
 D583,648 S * 12/2008 Cushman D8/343
 7,463,134 B1 * 12/2008 Stilley A45C 11/18
 340/5.61
 D595,113 S * 6/2009 Agresta D8/347
 D598,423 S * 8/2009 Lamarche D14/191
 D599,323 S * 9/2009 Petersen D14/191
 D627,153 S * 11/2010 Schmidt D3/207
 7,897,888 B2 * 3/2011 Dimig E05B 19/0082
 200/302.2
 D635,841 S * 4/2011 Lindley D8/347
 D647,810 S * 11/2011 Bohrer D10/106.9
 D657,229 S * 4/2012 Chang D8/347
 D660,682 S * 5/2012 Mahaffey D8/330
 D665,992 S * 8/2012 Wilbur D10/64
 D692,400 S * 10/2013 Ni D10/104.1
 D704,931 S * 5/2014 Abellera D3/207
 D714,538 S * 10/2014 Bestard-Ribas D3/207

D726,129 S * 4/2015 Chin D13/168
 D729,512 S * 5/2015 Latthe D3/207
 D731,356 S * 6/2015 Luke D11/207
 9,112,303 B2 * 8/2015 Zelif H01R 13/6205
 D739,360 S * 9/2015 Shippen D13/168
 D778,206 S * 2/2017 Sullivan D11/202
 D780,436 S * 3/2017 Fraser D3/207
 D794,556 S * 8/2017 Liao D13/107
 9,799,154 B2 * 10/2017 Engel-Dahan G07C 9/00571
 D806,715 S * 1/2018 Chen D14/480.6
 D815,562 S * 4/2018 Schommer D11/200
 D818,347 S * 5/2018 Kim D8/346
 9,963,909 B2 * 5/2018 Watanabe B60R 25/24
 D822,376 S * 7/2018 Konotopskyi D3/208
 D822,780 S * 7/2018 Fallon D21/793
 10,033,050 B2 * 7/2018 Yu H01M 2/0222
 10,140,824 B2 * 11/2018 Schultz G08B 13/12
 10,176,655 B2 * 1/2019 Gullicksen G07C 9/00309
 D844,971 S * 4/2019 Laurans D3/207
 10,271,443 B2 * 4/2019 Kajiura E05B 49/00
 2002/0173692 A1 * 11/2002 Kaufman A61N 2/008
 600/9
 2003/0051520 A1 * 3/2003 Janssen E05B 19/04
 70/278.3
 2004/0079125 A1 * 4/2004 Morehart E05B 19/04
 70/408

* cited by examiner



FIG. 1

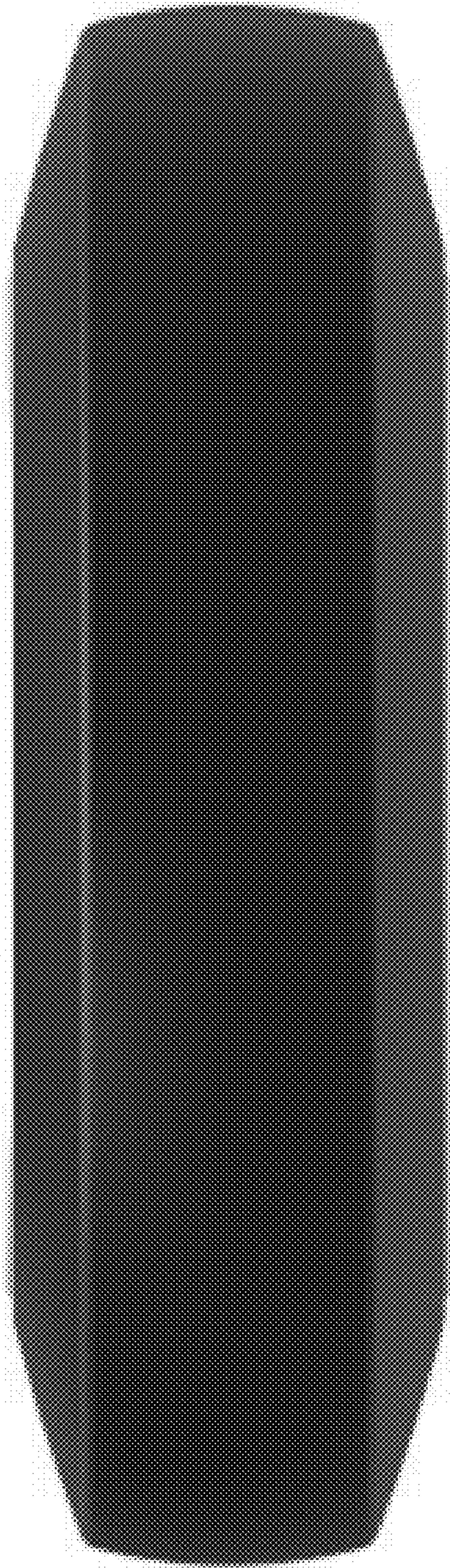


FIG. 2

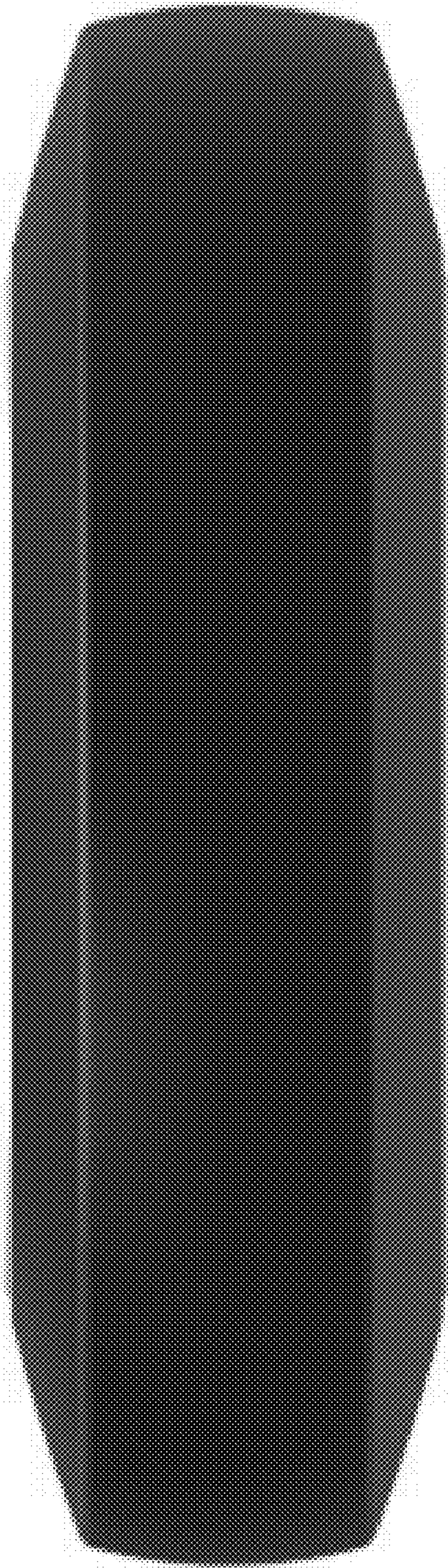


FIG. 3

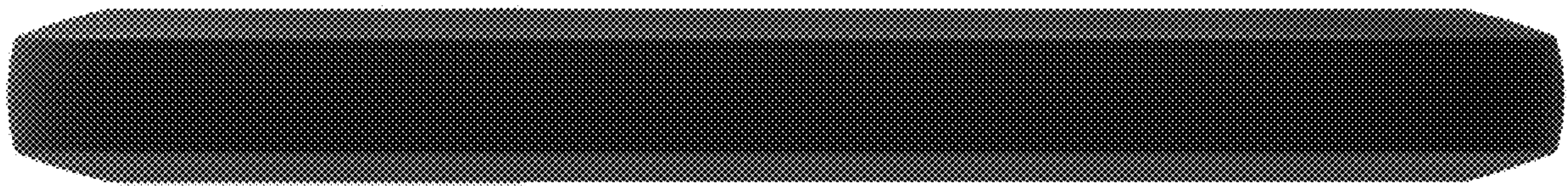


FIG. 4

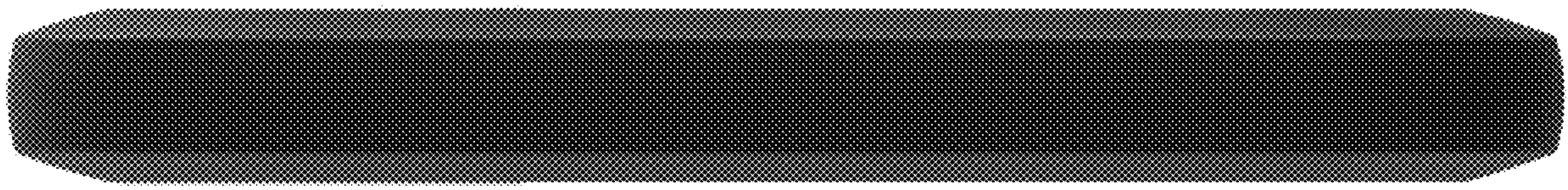


FIG. 5

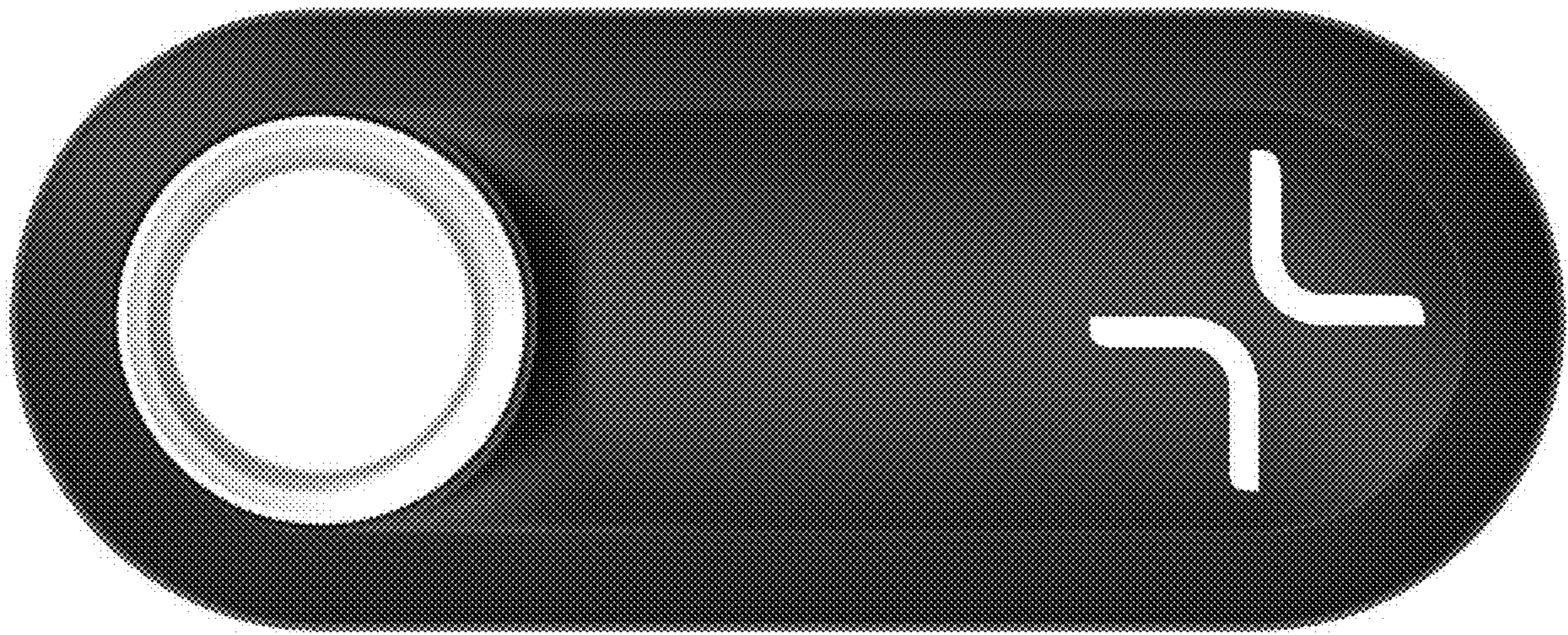


FIG. 6

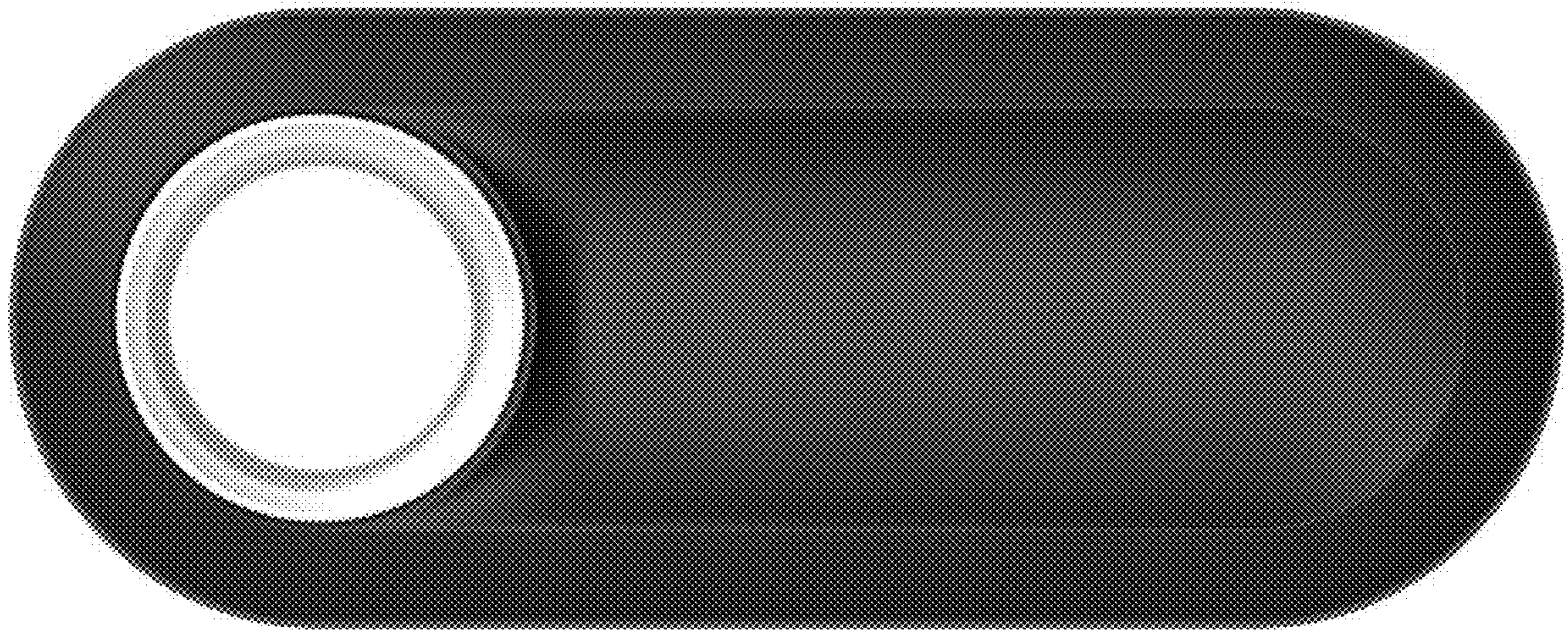


FIG. 7