



US00D578310S

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

(10) **Patent No.:** **US D578,310 S**
(45) **Date of Patent:** **** Oct. 14, 2008**

(54) **ABRASIVE ARTICLE WITH HOLES**

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(**) Term: **14 Years**

(21) Appl. No.: **29/283,588**

(22) Filed: **Aug. 17, 2007**

(51) **LOC (8) Cl.** **05-06**

(52) **U.S. Cl.** **D5/57; D8/90**

(58) **Field of Classification Search** D8/90;
D5/1, 2, 3, 11, 12, 15, 30, 47, 56, 57, 58,
D5/60, 62; 451/446, 526, 527, 538, 539;
428/43, 99; D23/388; D14/441

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D419,782 S * 2/2000 Saito et al. D5/57
- D428,267 S * 7/2000 Romano et al. D5/61
- D441,539 S * 5/2001 Streit D5/3
- D444,631 S * 7/2001 Woodbridge et al. D5/53
- D472,056 S * 3/2003 Jahner D5/57
- D503,283 S * 3/2005 Boerschinger D5/37
- D509,667 S * 9/2005 Ebisawa D5/57
- D513,884 S * 1/2006 Ebisawa D5/57
- D516,318 S * 3/2006 Hasenoehrl et al. D5/1
- D516,319 S * 3/2006 Hasenoehrl et al. D5/1
- D529,295 S * 10/2006 Kressner et al. D5/57
- D532,800 S 11/2006 Braunschweig et al.
- D533,200 S 12/2006 Braunschweig et al.

- D536,714 S 2/2007 Braunschweig et al.
- D538,051 S * 3/2007 Kuehn et al. D5/57
- D538,312 S 3/2007 Braunschweig et al.
- D538,313 S 3/2007 Braunschweig et al.
- D541,317 S 4/2007 Braunschweig et al.
- D543,562 S 5/2007 Braunschweig et al.

FOREIGN PATENT DOCUMENTS

- EM 535265-1/7 4/2006
- JP 1171614 4/2003

OTHER PUBLICATIONS

- U.S. Appl. No. 29/283,582, Braunschweig et al., filed Aug. 17, 2007.
- U.S. Appl. No. 29/283,584, Braunschweig et al., filed Aug. 17, 2007.
- U.S. Appl. No. 29/283,589, Braunschweig et al., filed Aug. 17, 2007.

* cited by examiner

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(57) **CLAIM**

The ornamental design for an abrasive article with holes, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view showing the new design for an abrasive article with holes, as shown;

FIG. 2 is a front view thereof;

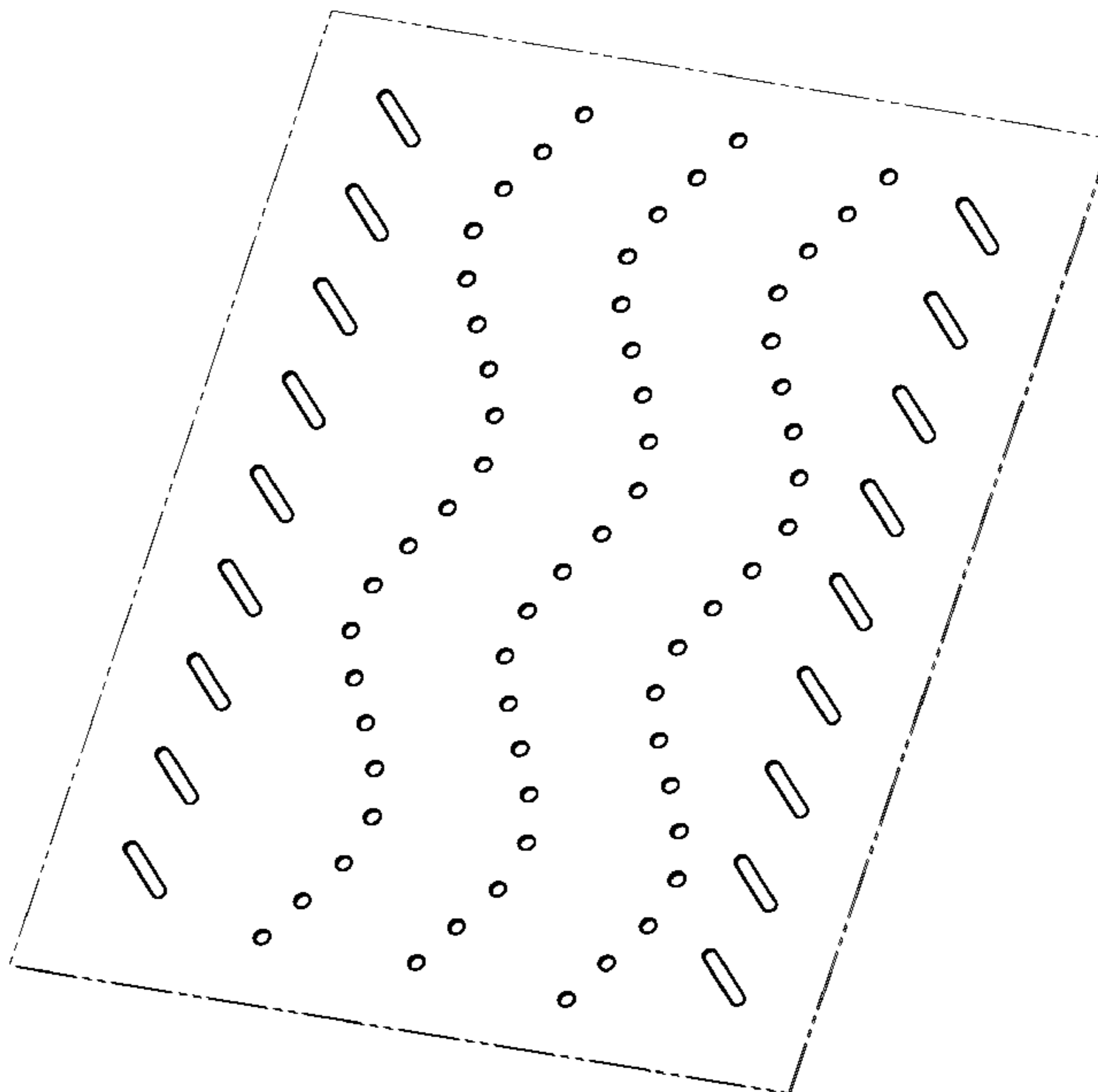
FIG. 3 is a back view thereof;

FIG. 4 is a right and left side view thereof; and,

FIG. 5 is a top and bottom view thereof.

The broken lines in the drawings indicate the outer perimeter of the abrasive article and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



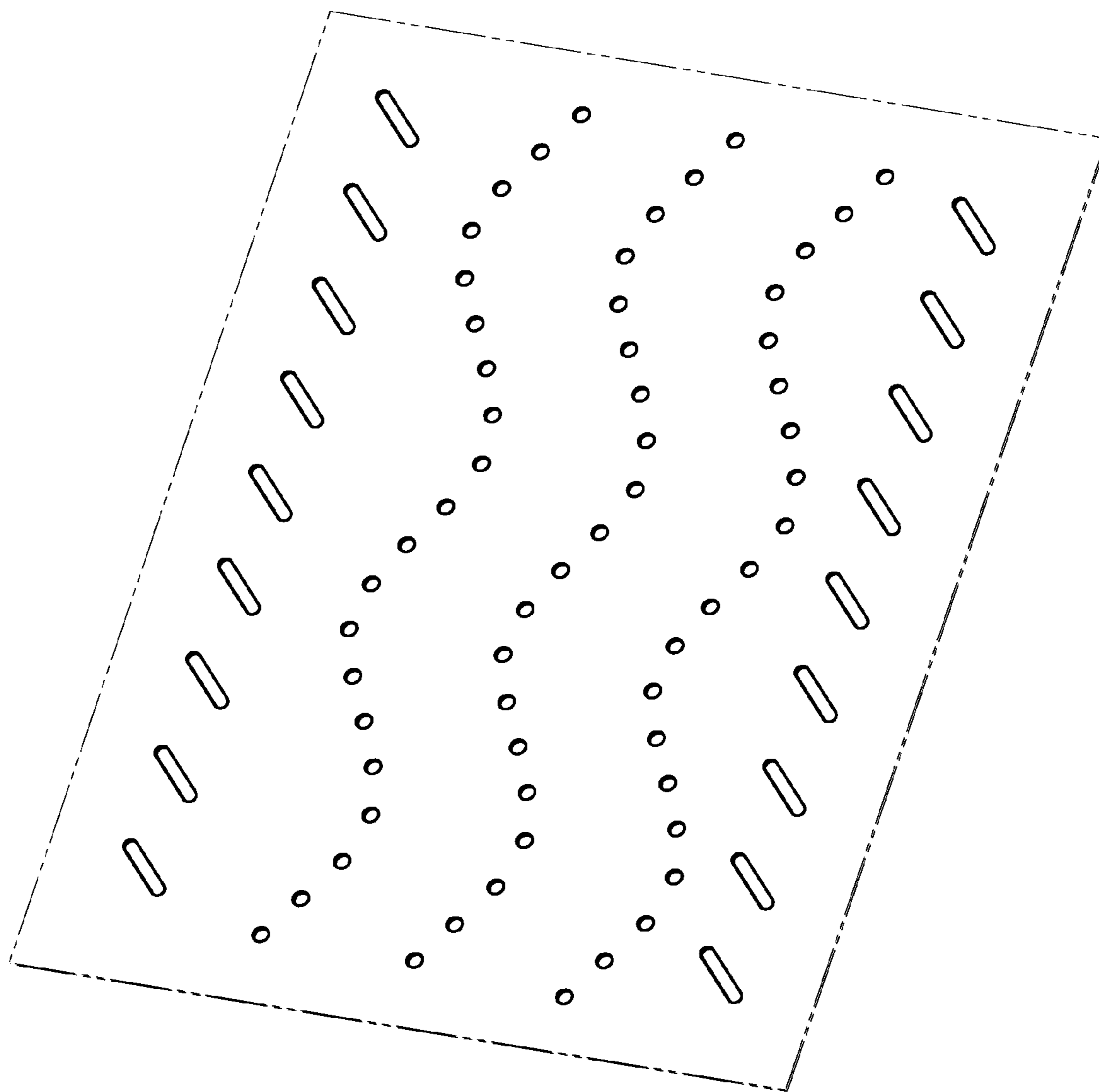


Fig. 1

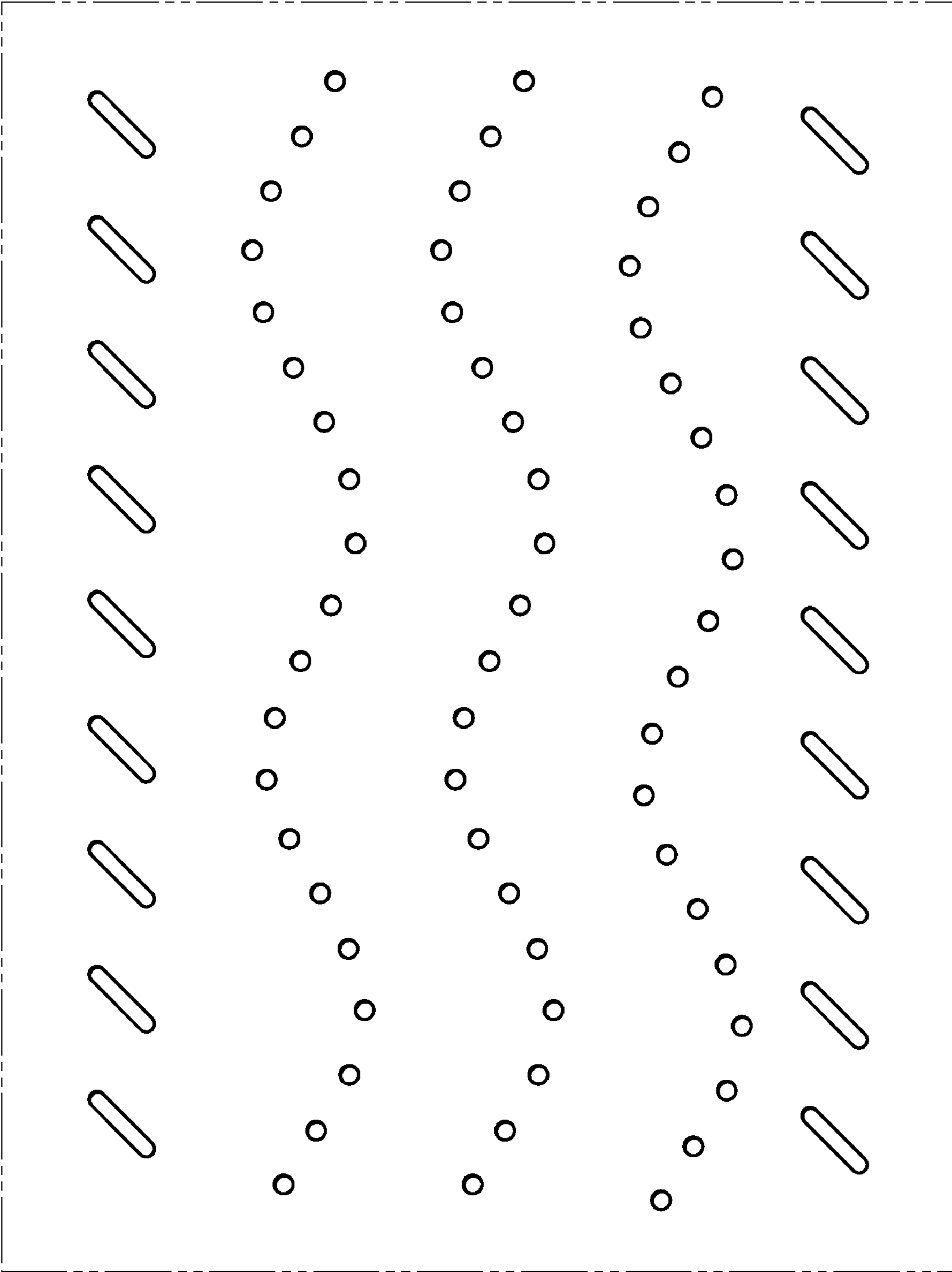


Fig. 2

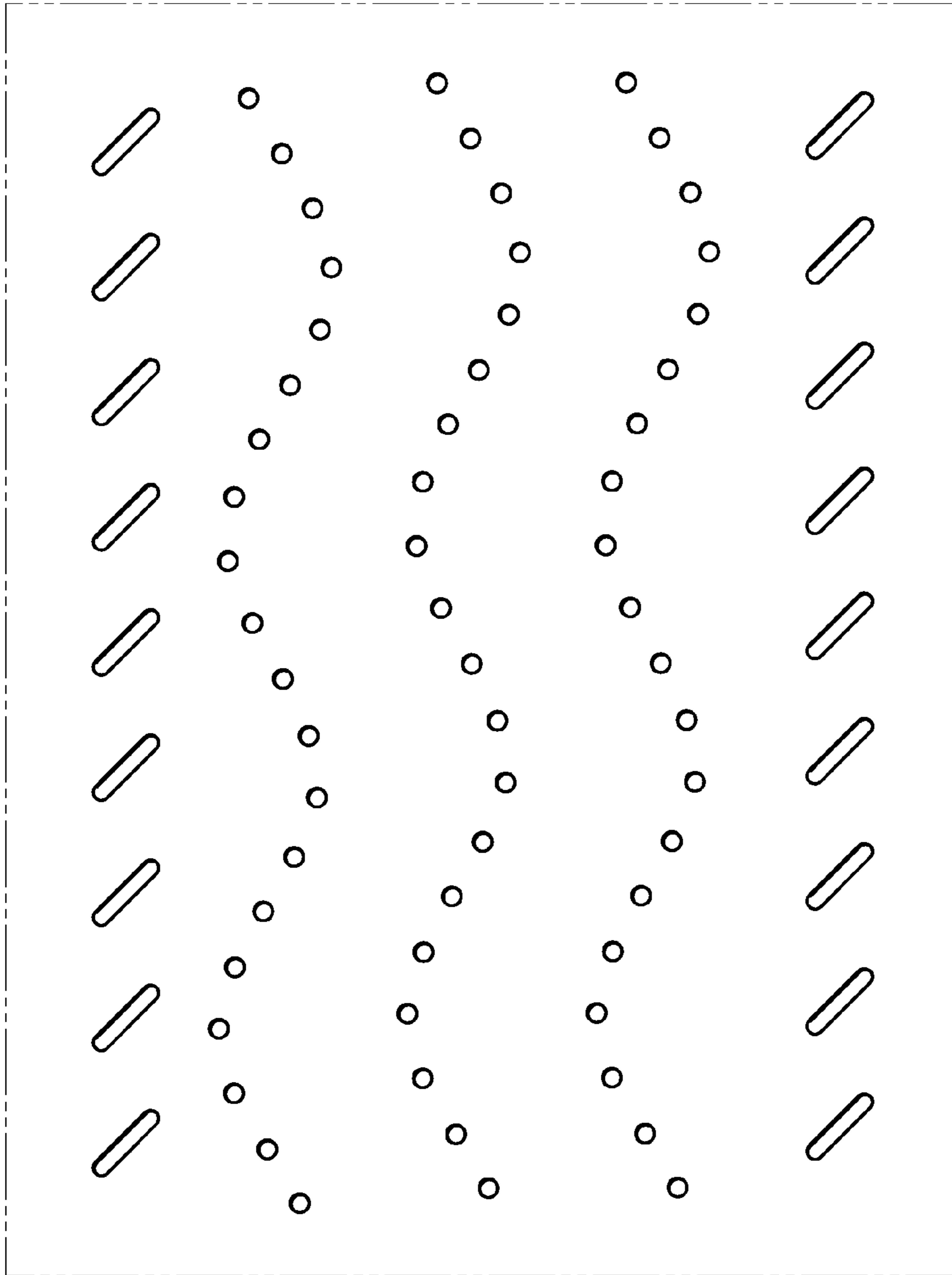


Fig. 3



Fig. 4



Fig. 5