



US00D879165S

(12) **United States Design Patent** (10) **Patent No.:** **US D879,165 S**
Eckel et al. (45) **Date of Patent:** **** Mar. 24, 2020**

(54) **COATED ABRASIVE BELT**

(56) **References Cited**

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U.S. PATENT DOCUMENTS
5,672,097 A * 9/1997 Hoopman B24D 3/28
451/526
6,121,143 A * 9/2000 Messner B24B 37/04
438/692
6,945,857 B1 * 9/2005 Doan B24B 53/017
451/443
7,410,413 B2 * 8/2008 Woo B24D 11/001
451/527

(Continued)

FOREIGN PATENT DOCUMENTS

EM 001466759 7/2018
EM 001466783 7/2018

(Continued)

OTHER PUBLICATIONS

Co-pending U.S. Appl. No 29/670,447 entitled "Coated Abrasive Belt", filed Nov. 15, 2018.

(Continued)

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

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(21) Appl. No.: **29/670,419**

(22) Filed: **Nov. 15, 2018**

(51) **LOC (12) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/126**

(58) **Field of Classification Search**
USPC D15/124, 126, 138, 139, 140; D8/61, 62, D8/63, 70, 71
CPC B23D 61/00; B23D 61/02; B23D 61/021; B23D 61/04; B23D 61/121; A23N 17/00; A23N 17/02
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a coated abrasive belt, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a coated abrasive belt showing an ornamental design in accordance with the present disclosure. As shown, the coated abrasive belt is oriented with the top surface shown uppermost on the coated abrasive belt;
FIG. 2 is an enlarged view of region 2 in FIG. 1;
FIG. 3 is a top view of the coated abrasive belt;

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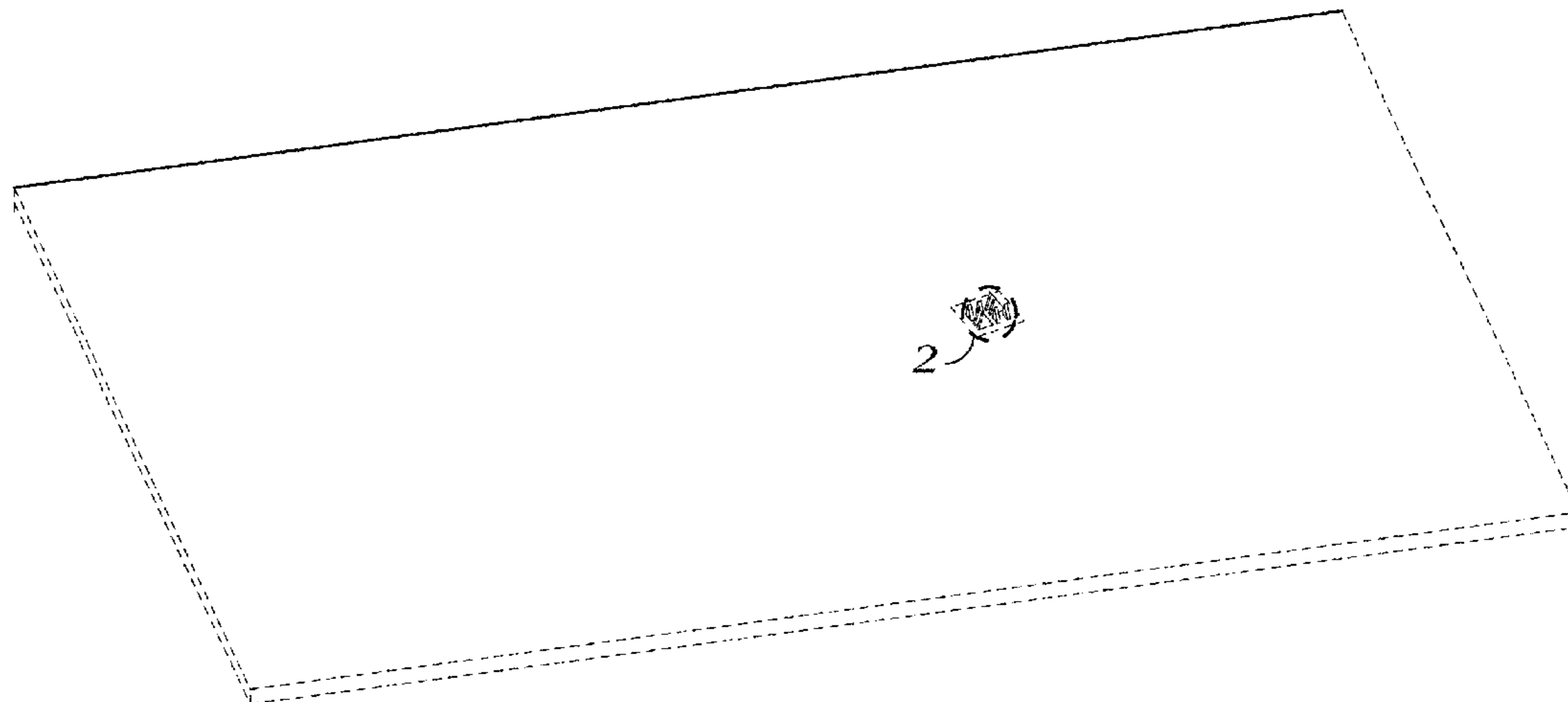


FIG. 4 is a back side view of the coated abrasive belt;
 FIG. 5 is a front side view of the coated abrasive belt;
 FIG. 6 is a right side view of the coated abrasive belt; and,
 FIG. 7 is a left side view of the coated abrasive belt.
 The broken lines shown in FIGS. 1-7 form no part of the
 claimed design.

1 Claim, 4 Drawing Sheets

(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | | |
|--------------|------|---------|-----------|-------|---------------------------|
| 8,951,099 | B2 * | 2/2015 | Wu | ..... | B24B 53/007 451/443 |
| 9,776,302 | B2 * | 10/2017 | Keipert | ..... | B24D 3/28 |
| D849,067 | S * | 5/2019 | Hanschen | ..... | D15/126 |
| D852,240 | S * | 6/2019 | Ferronato | ..... | D15/126 |
| D852,241 | S * | 6/2019 | Fritsch | ..... | D15/126 |
| D852,242 | S * | 6/2019 | Fritsch | ..... | D15/126 |
| D852,243 | S * | 6/2019 | Fritsch | ..... | D15/126 |
| D862,538 | S * | 10/2019 | Hanschen | ..... | D15/126 |
| 2002/0026752 | A1 * | 3/2002 | Culler | ..... | B24D 3/28 51/298 |
| 2003/0022604 | A1 * | 1/2003 | Annen | ..... | B24D 3/26 451/59 |
| 2004/0003895 | A1 * | 1/2004 | Amano | ..... | B24B 37/245 156/345.12 |
| 2004/0020133 | A1 * | 2/2004 | Paxton | ..... | B24D 11/02 51/307 |

| | | | | |
|--------------|------|---------|---------|------------------------------|
| 2013/0344786 | A1 | 12/2013 | Keipert | |
| 2015/0004889 | A1 * | 1/2015 | Seth | B24D 11/001 451/529 |
| 2016/0311084 | A1 | 10/2016 | Culler | |

FOREIGN PATENT DOCUMENTS

| | | | | |
|----|----------------|-----------|--|--------|
| EM | | 001466668 | | 8/2018 |
| EM | | 001466676 | | 8/2018 |
| WO | WO 2016-028683 | | | 2/2016 |
| WO | WO 2016-089675 | | | 6/2016 |
| WO | WO 2019/102328 | A1 | | 5/2019 |
| WO | WO 2019/102329 | A1 | | 5/2019 |
| WO | WO 2019-102330 | A1 | | 5/2019 |
| WO | WO 2019-102331 | A1 | | 5/2019 |
| WO | WO 2019/102332 | A1 | | 5/2019 |

OTHER PUBLICATIONS

Co-pending U.S. Appl. No. 29/629,307 entitled "Coated Abrasive Disc", filed Dec. 12, 2017.
 Co-pending U.S. Appl. No. 29/629,295; entitled "Coated Abrasive Disc", filed Dec. 12, 2017.
 Co-pending U.S. Appl. No. 29/629,299; entitled "Coated Abrasive Disc", filed Dec. 12, 2017.
 Co-pending U.S. Appl. No. 29/629,305; entitled "Coated Abrasive Disc", filed Dec. 12, 2017.
 Co-pending U.S. Appl. No. 62/767,888; entitled "Coated Abrasive Belt and Methods of Making and Using the Same", filed Nov. 15, 2018.
 Co-pending U.S. Appl. No. 62/767,853; entitled "Coated Abrasive Belt and Methods of Making and Using the Same", filed Nov. 15, 2018.

* cited by examiner

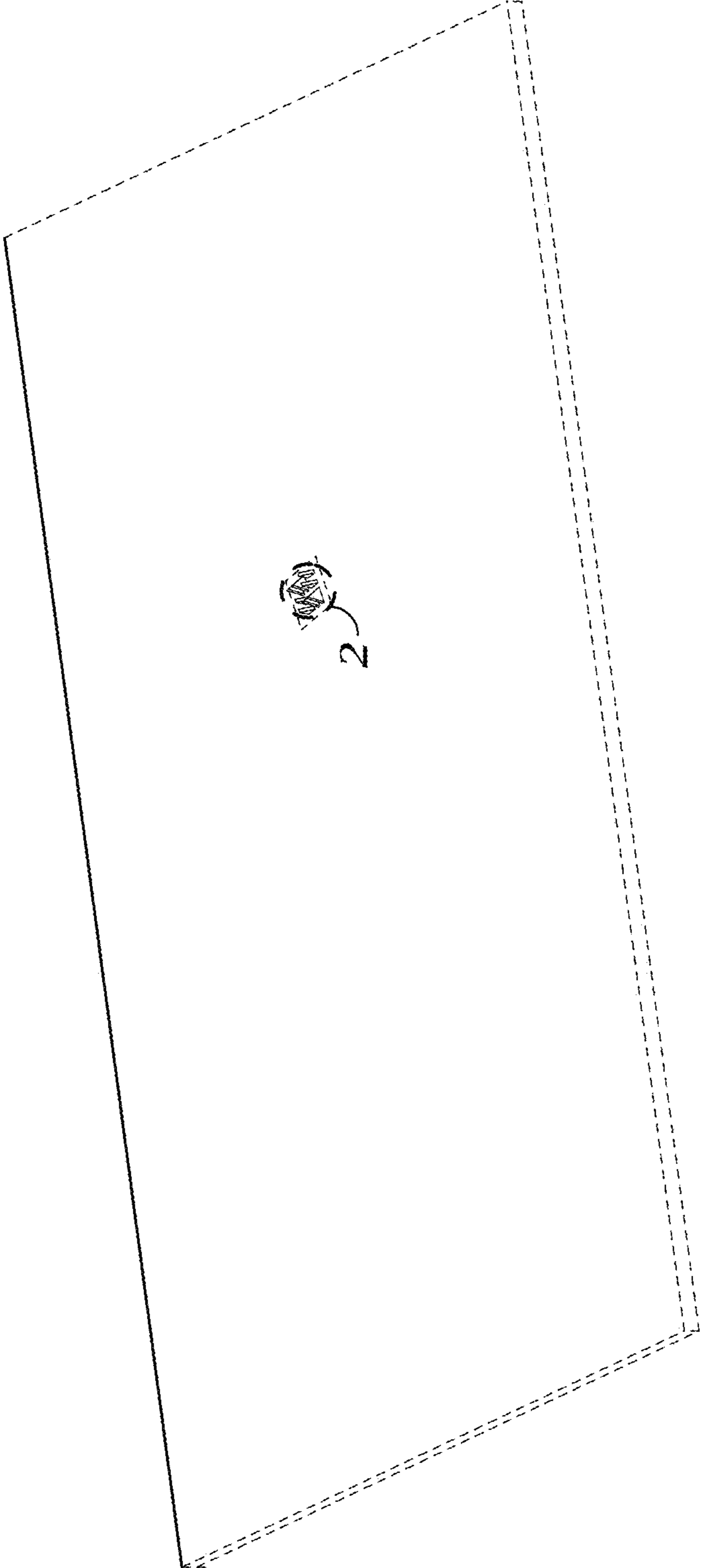


FIG. 1

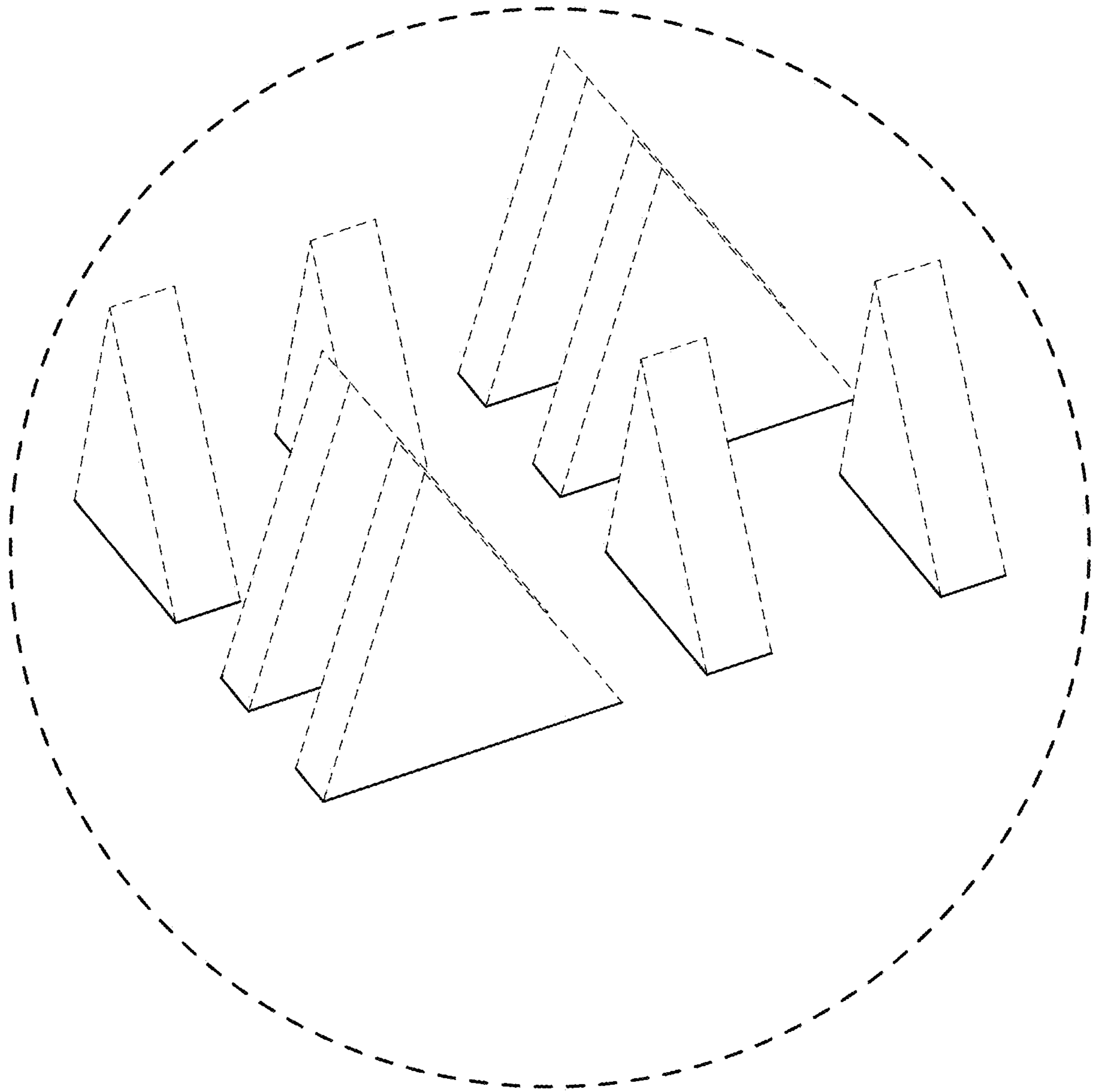


FIG. 2

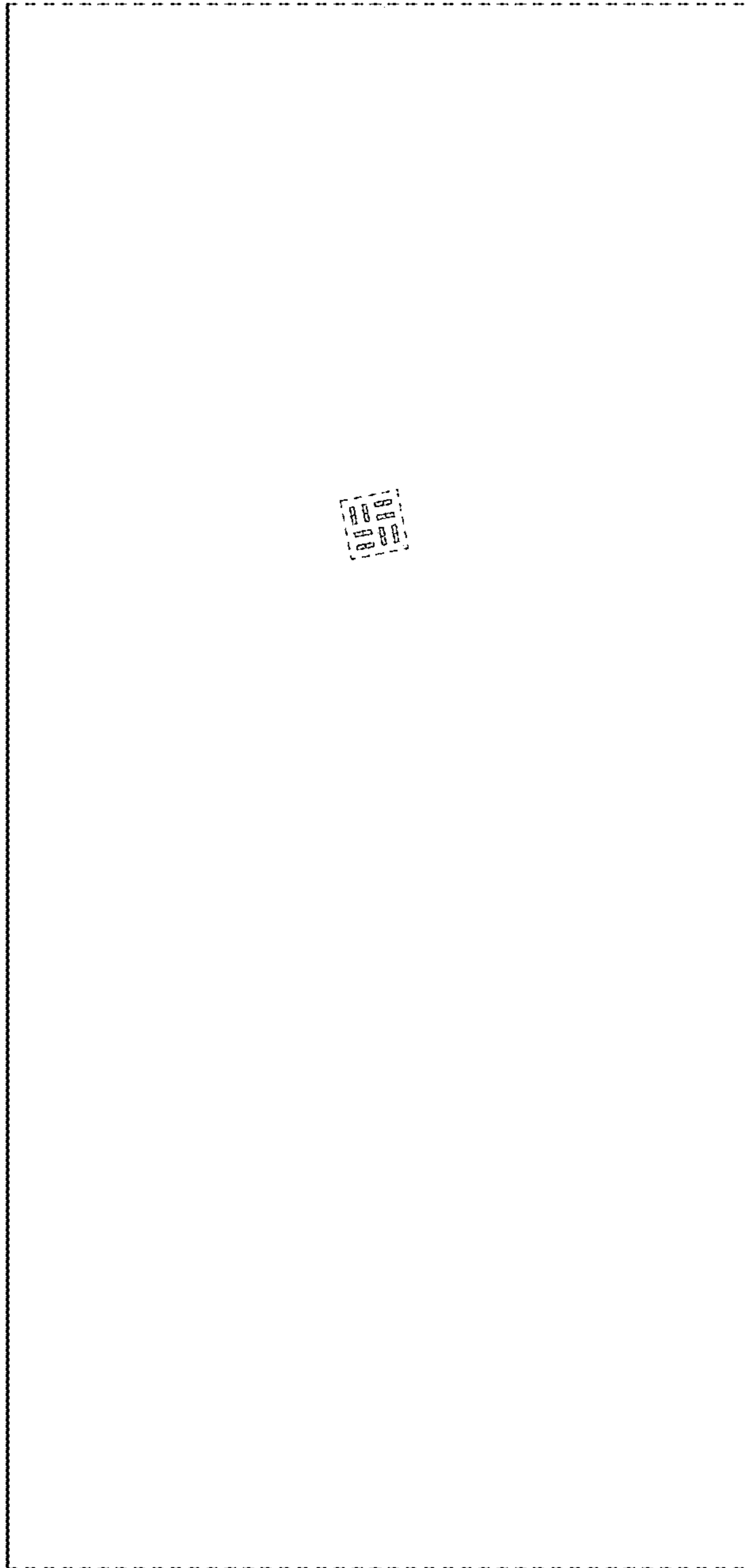


FIG. 3



FIG. 4



FIG. 5

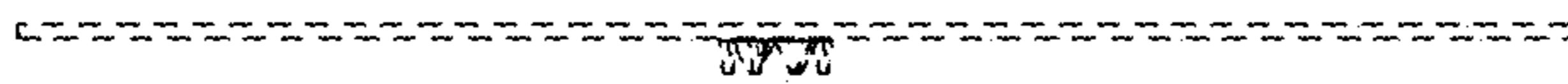


FIG. 6



FIG. 7