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(12) **United States Design Patent** (10) **Patent No.:** **US D893,977 S**  
**Staniszewski et al.** (45) **Date of Patent:** **\*\* Aug. 25, 2020**

(54) **HINGED JOINT FOR A TOOL HANDLE**  
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5,217,315 A 6/1993 Rosane  
5,417,511 A 5/1995 Warden  
D375,451 S \* 11/1996 Ohkubo ..... D8/323  
5,746,533 A \* 5/1998 Schmidt ..... E05D 11/1007  
16/319

(Continued)

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AU 2006252097 1/2012  
CH 176776 6/1934

(Continued)

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

FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

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International Search Report and Written Opinion from PCT/US2019/  
018555 dated Apr. 26, 2019, pp. 1-13.

(Continued)

**Related U.S. Application Data**

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(51) **LOC (12) Cl.** ..... **08-06**

(52) **U.S. Cl.**  
USPC ..... **D8/107; D8/323**

(57) **CLAIM**

The ornamental design for a hinged joint for a tool handle,  
as shown and described.

(58) **Field of Classification Search**  
USPC .... D8/14, 107, 323, 328, 382, 394; D32/51,  
D32/52

CPC . A61G 1/013; E04H 15/48; Y10T 403/32073;  
Y10T 403/32409

See application file for complete search history.

**DESCRIPTION**

FIG. 1 is a top perspective view of a hinged joint for a tool handle according to new design;  
FIG. 2 is a bottom perspective view thereof;  
FIG. 3 is a first side view thereof;  
FIG. 4 is a second side view thereof opposite the first side;  
FIG. 5 is a third side view thereof;  
FIG. 6 is a fourth side view opposite the third side view;  
FIG. 7 is a top view thereof; and,  
FIG. 8 is a bottom view thereof.

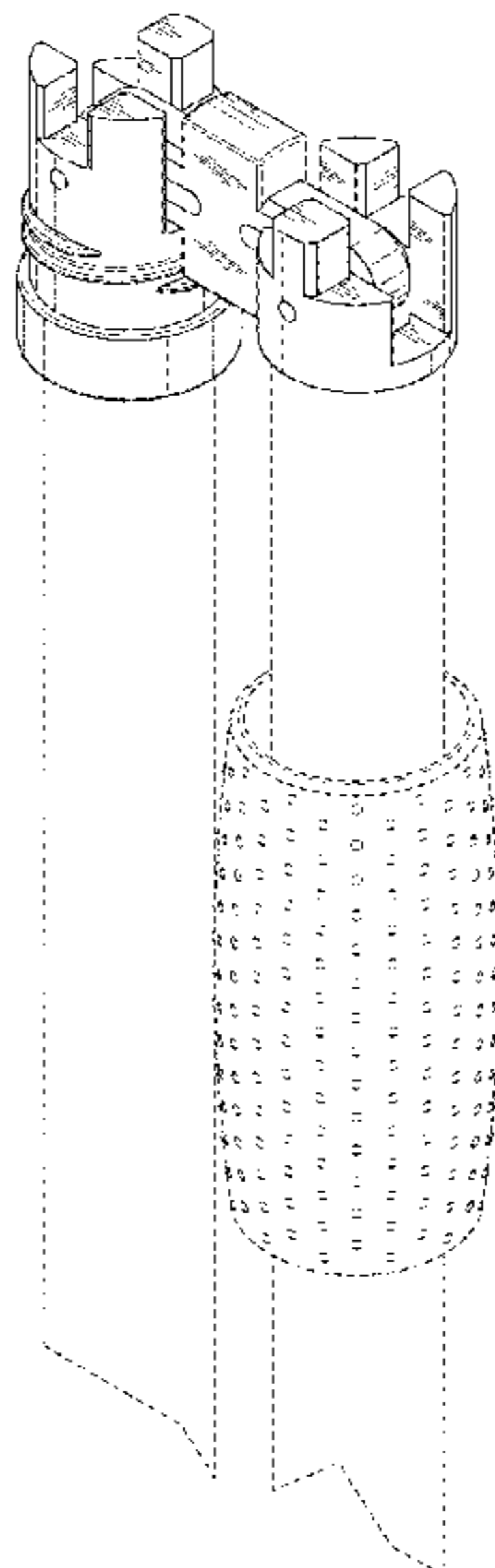
The broken line showing of the tool handle is provided for purposes of environment and forms no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,906,218 A 4/1933 Patchell  
3,380,097 A 4/1968 Pharris  
3,778,610 A \* 12/1973 Wolf ..... F21V 21/26  
362/418  
4,131,378 A 12/1978 Daws  
4,611,945 A 9/1986 Diego  
4,929,113 A \* 5/1990 Sheu ..... F16C 11/045  
403/157  
5,178,583 A 1/1993 Rankin

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,887,314 A 3/1999 Jordan, Jr.  
 6,371,873 B1 \* 4/2002 Wang ..... A63B 63/004  
 273/407  
 6,532,630 B1 3/2003 Newman et al.  
 6,546,596 B2 4/2003 Grote et al.  
 6,675,546 B2 \* 1/2004 Coles ..... F16B 7/185  
 403/157  
 6,711,783 B2 \* 3/2004 LeMole ..... B60J 7/1204  
 114/361  
 6,776,499 B2 8/2004 Chang  
 7,003,849 B2 \* 2/2006 Cohen ..... A63C 11/221  
 16/232  
 7,356,871 B2 4/2008 Heaven  
 7,549,194 B2 6/2009 Vosbikian et al.  
 7,673,365 B1 3/2010 Griffin, Sr.  
 7,677,619 B2 \* 3/2010 Hutchings ..... B25J 1/02  
 294/105  
 D660,535 S 5/2012 Menius  
 D667,598 S 9/2012 Menius  
 8,566,999 B1 10/2013 Casey  
 D699,412 S 2/2014 Smith  
 D714,613 S 10/2014 Jenkins  
 D719,712 S 12/2014 Widmer et al.  
 D782,273 S \* 3/2017 Cramer-Kelly ..... D8/323

D825,306 S \* 8/2018 Stinson ..... D8/70  
 10,076,221 B2 9/2018 Cook  
 D834,915 S \* 12/2018 Boyce ..... A63B 71/023  
 D8/323

2013/0291893 A1 11/2013 Stokes  
 2017/0282348 A1 10/2017 Mark

FOREIGN PATENT DOCUMENTS

CN 2610836 4/2004  
 CN 2850504 12/2006  
 CN 202355361 11/2011  
 CN 206151385 6/2016  
 CN 106725148 5/2017  
 EP 1572422 9/2003  
 FR 2523501 3/1982  
 WO WO 2018/154107 A1 8/2018

OTHER PUBLICATIONS

“Xifando Three-Section Telescopic Aluminum Alloy Rod Long  
 Handled Broom”, www.amazon.com, Jan. 10, 2019, pp. 1-3.  
 “Cassabella 86012 Height Adjustable Duster Broom with Dustpan”,  
 www.amazon.com, Jan. 10, 2019, pp. 1-5.

\* cited by examiner

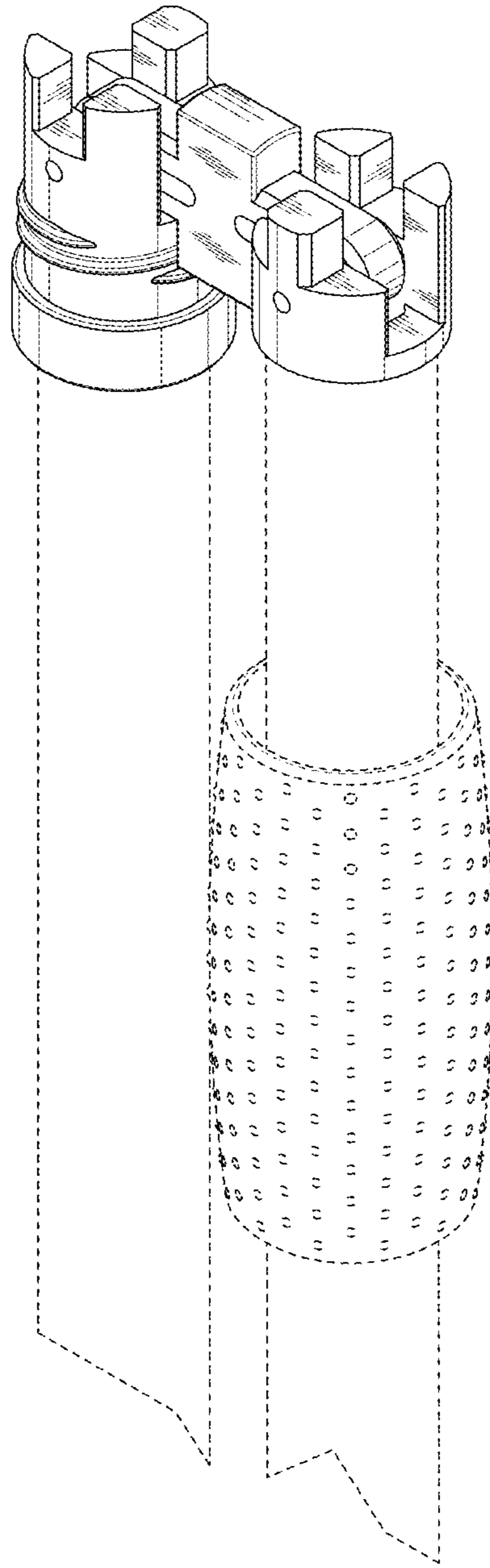


FIG. 1

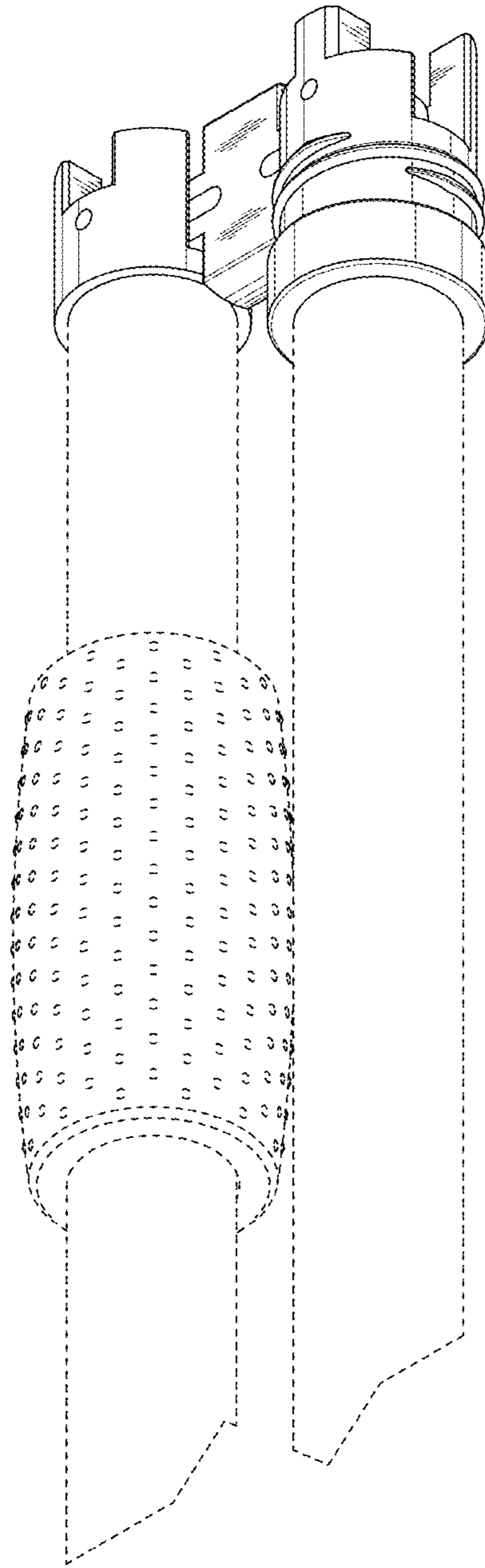


FIG. 2

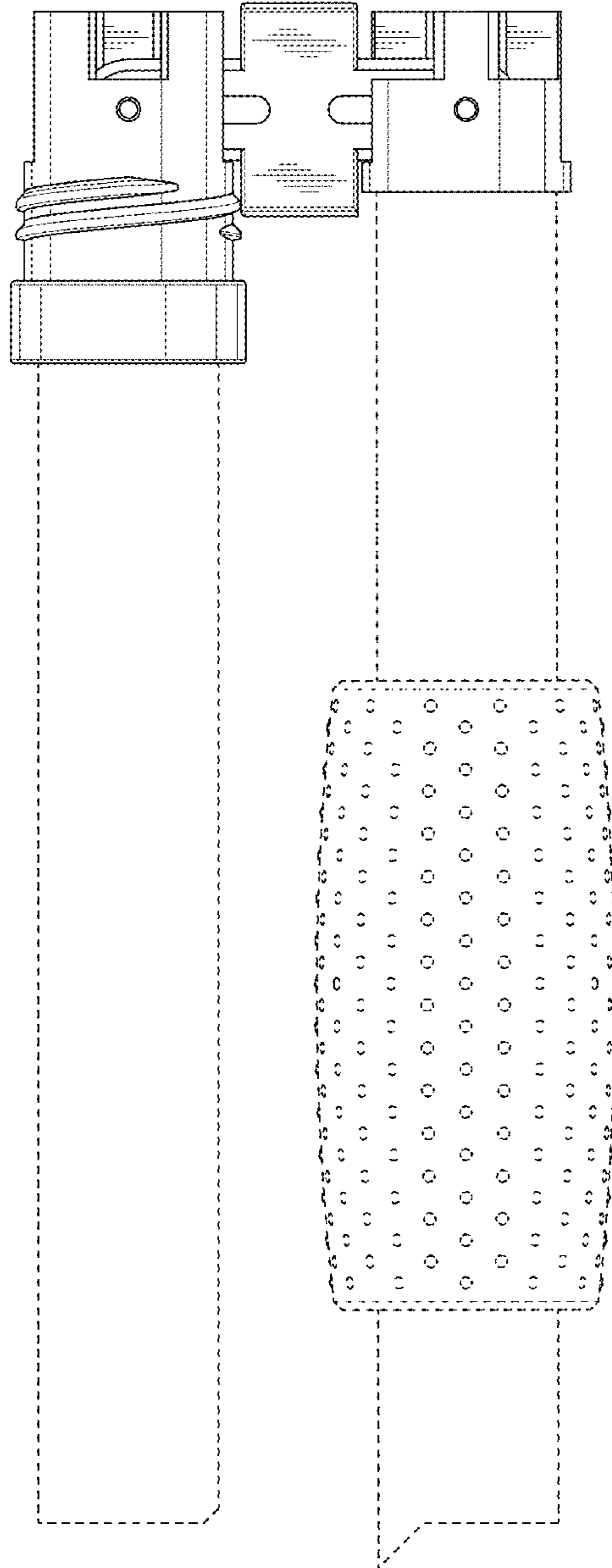


FIG. 3

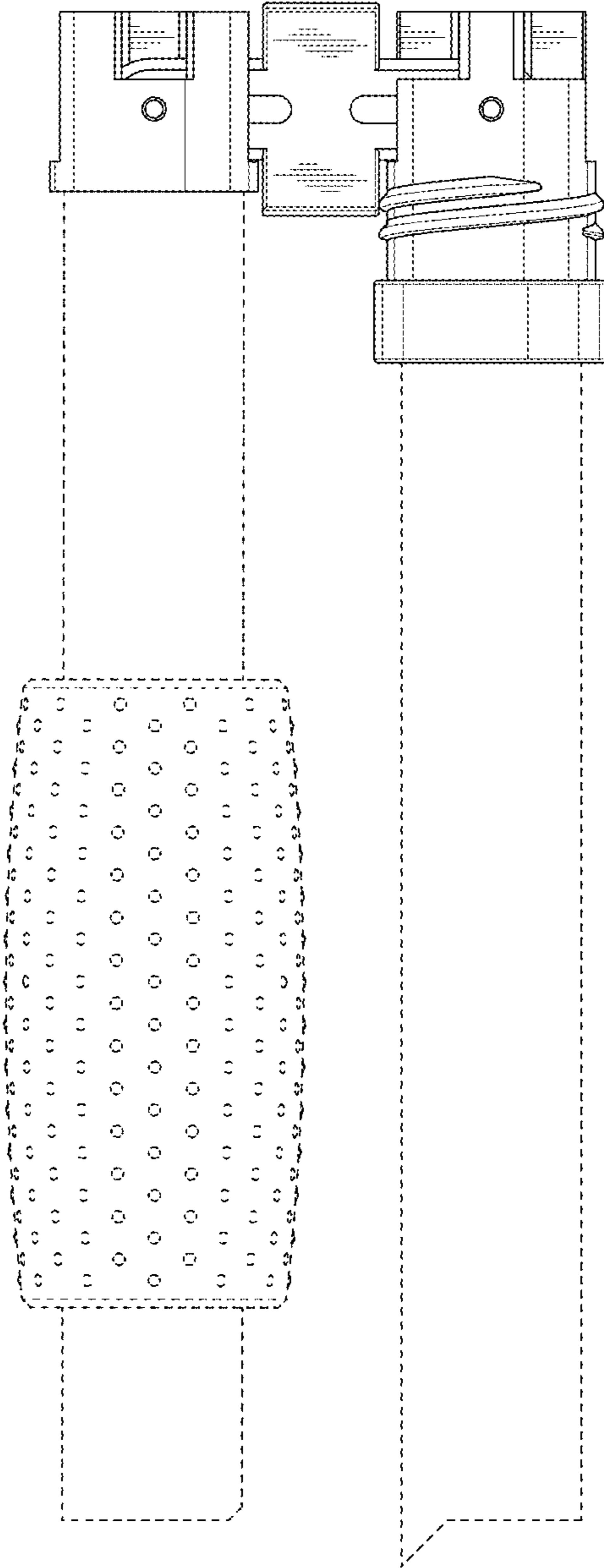


FIG. 4

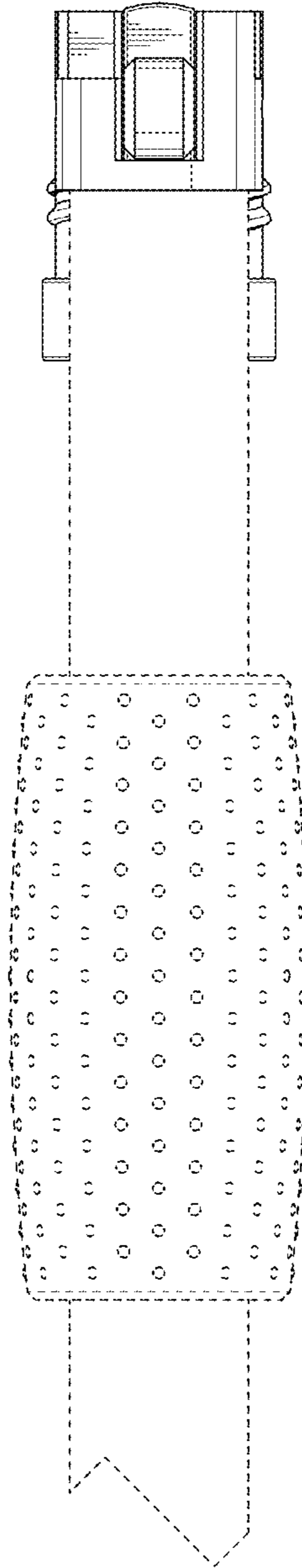


FIG. 5

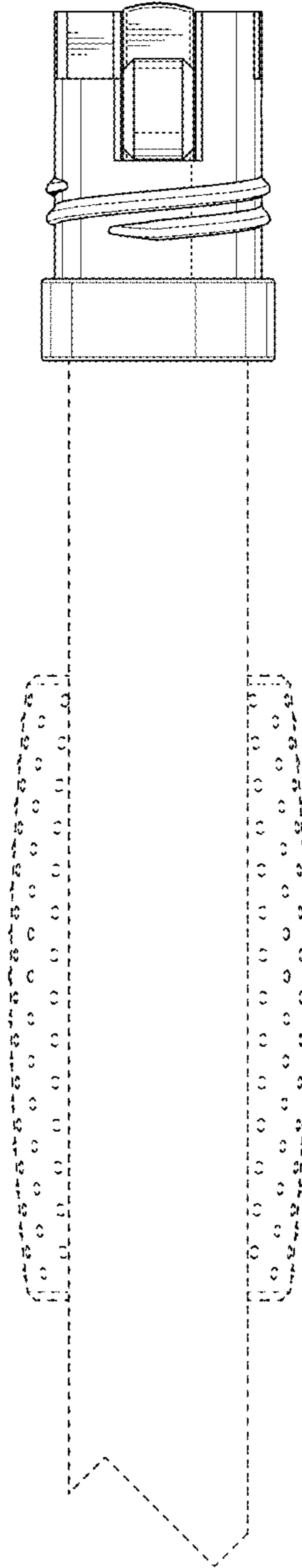


FIG. 6



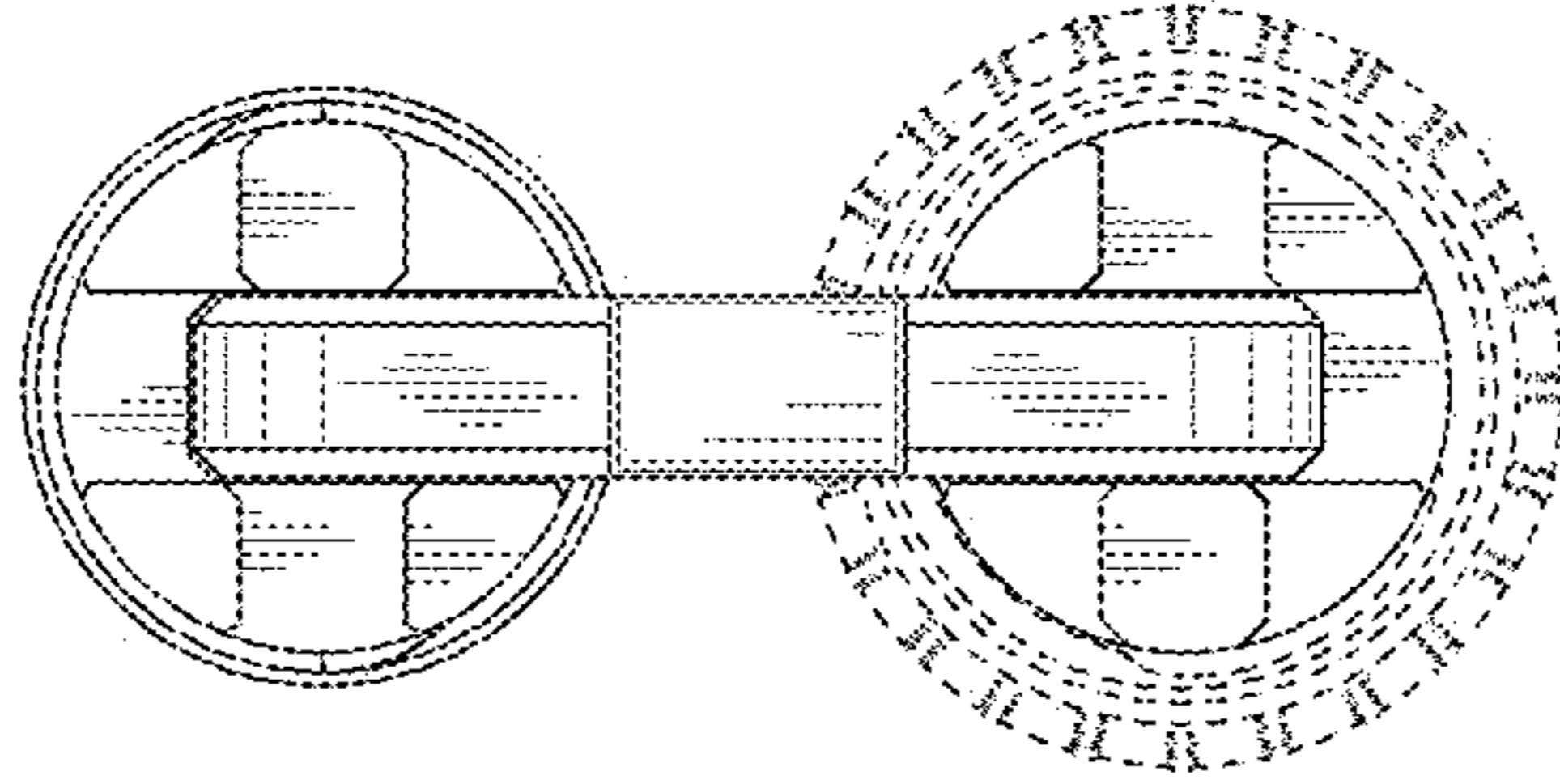


FIG. 7

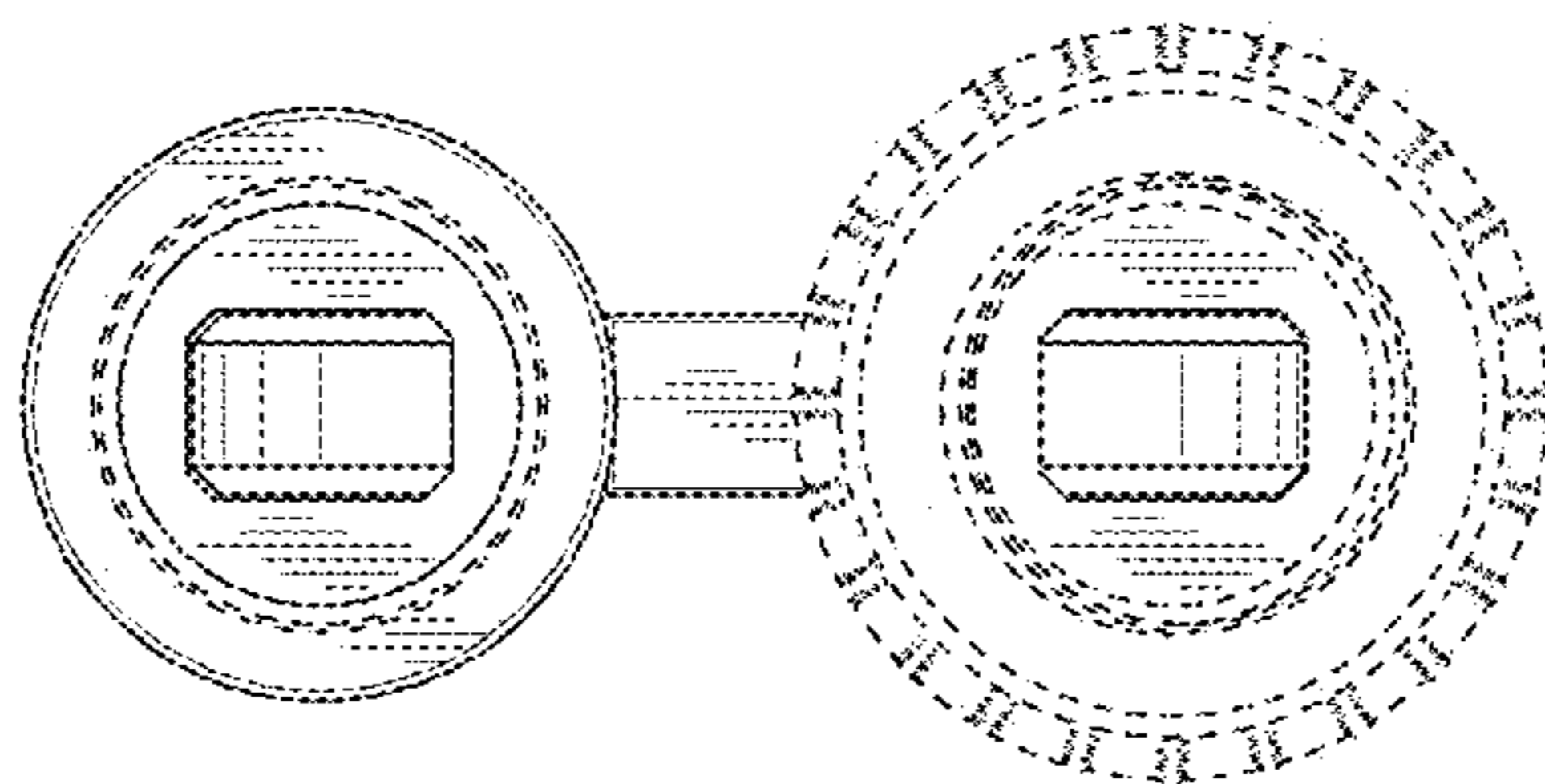


FIG. 8