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(12) **United States Design Patent** (10) **Patent No.:** **US D947,910 S**  
**Mortensen** (45) **Date of Patent:** **\*\* Apr. 5, 2022**

- (54) **DRILL BIT** 5,054,246 A 10/1991 Phaal et al.
- D324,056 S 2/1992 Frazee
- (71) Applicant: **US SYNTHETIC CORPORATION,** D324,226 S 2/1992 Frazee  
Orem, UT (US) 5,115,873 A 5/1992 Pastusek
- 5,172,778 A 12/1992 Tibbitts et al.
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Mountain, UT (US) 5,332,051 A 7/1994 Knowlton
- 5,379,854 A 1/1995 Dennis
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(US) 5,655,612 A 8/1997 Grimes et al.
- 5,752,573 A 5/1998 Scott et al.

(Continued)

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

**FOREIGN PATENT DOCUMENTS**

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- EP 0841463 A2 5/1998

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(51) **LOC (13) Cl.** ..... **15-09**

(52) **U.S. Cl.**  
USPC ..... **D15/139; D15/138**

(58) **Field of Classification Search**  
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B02C 18/18; B02C 13/28; B02C 13/2804;  
B27G 13/00; B27G 13/10; B27L 11/00;  
E21B 10/08; E21B 10/43; E21B 10/62;  
E21B 10/602; E21B 10/55

See application file for complete search history.

**OTHER PUBLICATIONS**

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(Continued)

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(57) **CLAIM**

The ornamental design for a drill bit, as shown and described.

**DESCRIPTION**

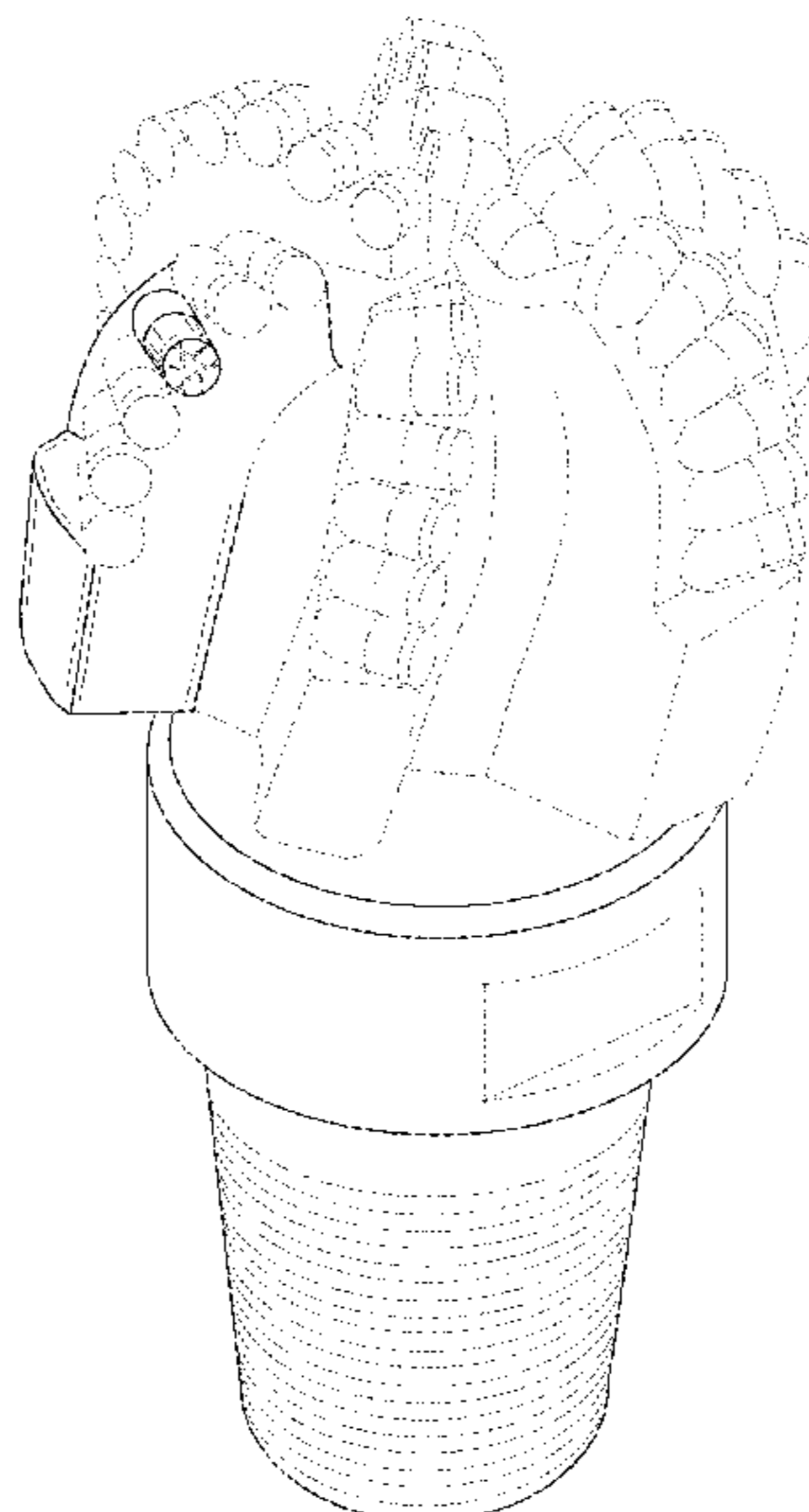
FIG. 1 is a front perspective view of a drill bit including a cutting tool according to a new design, with the back perspective view being identical; and, FIG. 2 is a top plan view thereof. The broken lines in the drawings depict portions of the drill bit that form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 4,333,540 A 6/1982 Daniels et al.
- 4,440,246 A 4/1984 Juergens
- 4,570,726 A 2/1986 Hall
- 4,593,777 A 6/1986 Barr
- 4,858,707 A 8/1989 Jones et al.
- 4,872,520 A 10/1989 Nelson
- 4,984,642 A 1/1991 Renard et al.



(56)

References Cited

U.S. PATENT DOCUMENTS

5,829,541 A 11/1998 Flood et al.  
 D404,044 S 1/1999 Martin et al.  
 D405,811 S \* 2/1999 Arfele ..... D15/139  
 5,871,060 A 2/1999 Jensen et al.  
 5,915,486 A 6/1999 Portwood et al.  
 5,944,129 A 8/1999 Jensen  
 6,003,623 A 12/1999 Miess  
 6,045,440 A 4/2000 Johnson et al.  
 6,053,263 A 4/2000 Meiners  
 6,065,554 A 5/2000 Taylor et al.  
 6,196,340 B1 3/2001 Jensen et al.  
 6,199,645 B1 3/2001 Anderson et al.  
 6,202,770 B1 3/2001 Tibbitts  
 6,227,318 B1 5/2001 Siracki  
 6,241,035 B1 6/2001 Portwood  
 6,447,560 B2 9/2002 Jensen et al.  
 6,550,556 B2 4/2003 Middlemiss et al.  
 D485,852 S 1/2004 Arvidsson  
 6,672,406 B2 1/2004 Beuershausen  
 6,904,983 B2 6/2005 Thigpen et al.  
 6,904,984 B1 6/2005 Estes et al.  
 6,929,079 B2 8/2005 Mcdonough et al.  
 7,086,488 B2 8/2006 Richman  
 7,086,489 B2 8/2006 Mcdonough  
 7,152,703 B2 12/2006 Meiners et al.  
 D554,162 S 10/2007 Hall et al.  
 7,475,744 B2 1/2009 Pope  
 D587,732 S 3/2009 Morozov  
 D588,175 S 3/2009 Morton  
 7,681,669 B2 3/2010 Cannon et al.  
 7,726,420 B2 6/2010 Shen et al.  
 7,743,855 B2 6/2010 Moss  
 D620,510 S 7/2010 Hall  
 7,757,785 B2 7/2010 Zhang et al.  
 8,037,951 B2 10/2011 Shen et al.  
 8,087,478 B2 1/2012 Patel  
 8,113,303 B2 2/2012 Zhang et al.  
 8,191,656 B2 6/2012 Dourfaye et al.  
 D682,325 S 5/2013 Monyak et al.  
 D682,326 S 5/2013 Monyak et al.  
 8,561,727 B1 10/2013 Pope et al.  
 8,783,387 B2 7/2014 Durairajan et al.  
 D712,941 S 9/2014 Mo  
 8,833,492 B2 9/2014 Durairajan et al.  
 8,851,206 B2 10/2014 Patel  
 8,960,337 B2 2/2015 Hall et al.  
 9,062,505 B2 6/2015 Crockett et al.  
 D736,281 S 8/2015 Phillips et al.  
 9,103,174 B2 8/2015 Digiovanni  
 9,316,057 B2 4/2016 Chen et al.  
 9,404,310 B1 8/2016 Sani et al.  
 9,428,966 B2 8/2016 Patel et al.  
 9,482,057 B2 11/2016 Digiovanni et al.  
 D775,676 S 1/2017 Matti  
 9,598,909 B2 3/2017 Patel  
 9,915,102 B2 3/2018 Hall et al.  
 9,945,186 B2 4/2018 Mukhopadhyay et al.

10,017,998 B2 7/2018 Bilen et al.  
 10,029,391 B2 7/2018 Hall et al.  
 10,036,208 B2 7/2018 Adia et al.  
 10,036,209 B2 7/2018 Alsup et al.  
 10,047,568 B2 8/2018 Mukhopadhyay et al.  
 10,071,354 B2 9/2018 Jonker et al.  
 10,071,355 B2 9/2018 Olofsson et al.  
 10,125,552 B2 11/2018 Zhao et al.  
 D835,163 S 12/2018 Mortensen et al.  
 D854,592 S 7/2019 Matsuda  
 D872,142 S 1/2020 Lyon  
 D875,147 S 2/2020 Xu et al.  
 D878,436 S 3/2020 Dunaway et al.  
 D882,653 S 4/2020 Abe et al.  
 10,697,248 B2 6/2020 Russell et al.  
 10,724,304 B2 7/2020 Bomidi et al.  
 10,731,421 B2 8/2020 Casad  
 10,738,538 B2 8/2020 Azar  
 10,753,155 B2 8/2020 Maurstad  
 10,760,346 B2 9/2020 Schroder et al.  
 10,774,595 B2 9/2020 Russell et al.  
 D908,753 S \* 1/2021 Dunaway ..... D15/139  
 D914,070 S \* 3/2021 Dunaway ..... D15/139  
 D920,401 S \* 5/2021 Congdon ..... D15/139  
 2007/0235230 A1 10/2007 Cuillier et al.  
 2014/0318873 A1 10/2014 Patel et al.  
 2015/0041225 A1 2/2015 Jonker et al.  
 2015/0047912 A1 2/2015 Pettiet  
 2015/0259988 A1 9/2015 Chen et al.  
 2015/0285005 A1 10/2015 Shamburger  
 2017/0043452 A1 2/2017 Daniels et al.  
 2017/0191316 A1 7/2017 Stockey et al.  
 2017/0234078 A1 8/2017 Patel et al.  
 2018/0087325 A1 3/2018 Bilen  
 2018/0291689 A1 10/2018 Palmer et al.  
 2018/0320450 A1 11/2018 Borge

FOREIGN PATENT DOCUMENTS

EP 1052367 B1 4/2005  
 GB 2300437 A 11/1996  
 WO 2017087920 A1 5/2017  
 WO 2017095715 A1 6/2017  
 WO 2017105804 A1 6/2017

OTHER PUBLICATIONS

Non-Final Office Action for U.S. Appl. No. 29/676,553 dated Oct. 6, 2020.  
 Notice of Allowance for U.S. Appl. No. 29/676,553 dated Mar. 5, 2021.  
 Restriction Requirement for U.S. Appl. No. 29/676,553 dated Jul. 10, 2020.  
 U.S. Appl. No. 14/515,768, filed Oct. 16, 2014.  
 U.S. Appl. No. 29/626,328, filed Nov. 16, 2017.  
 U.S. Appl. No. 29/676,553, filed Jan. 11, 2019.  
 U.S. Appl. No. 62/456,785, filed Feb. 9, 2017.

\* cited by examiner

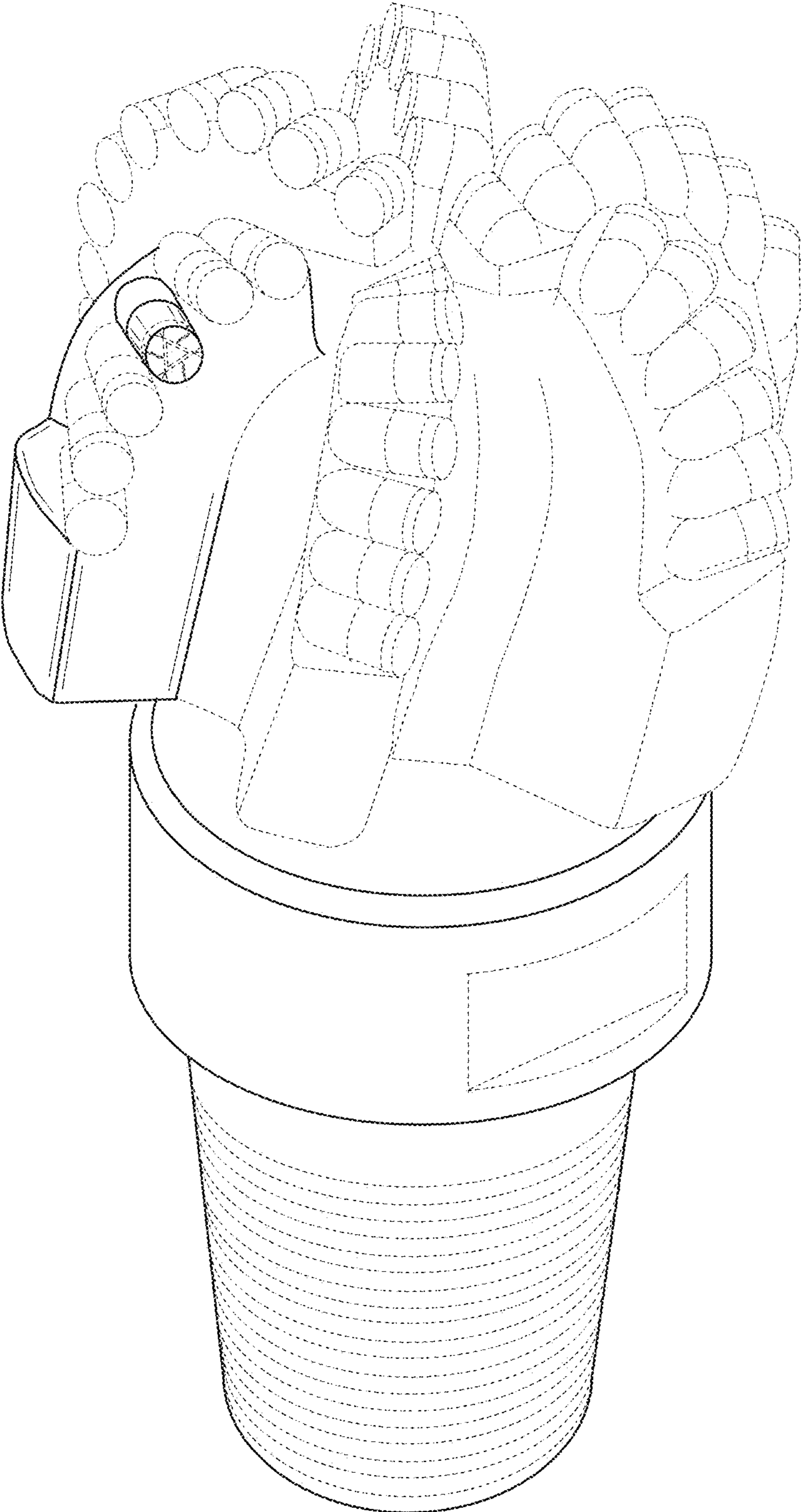


FIG. 1

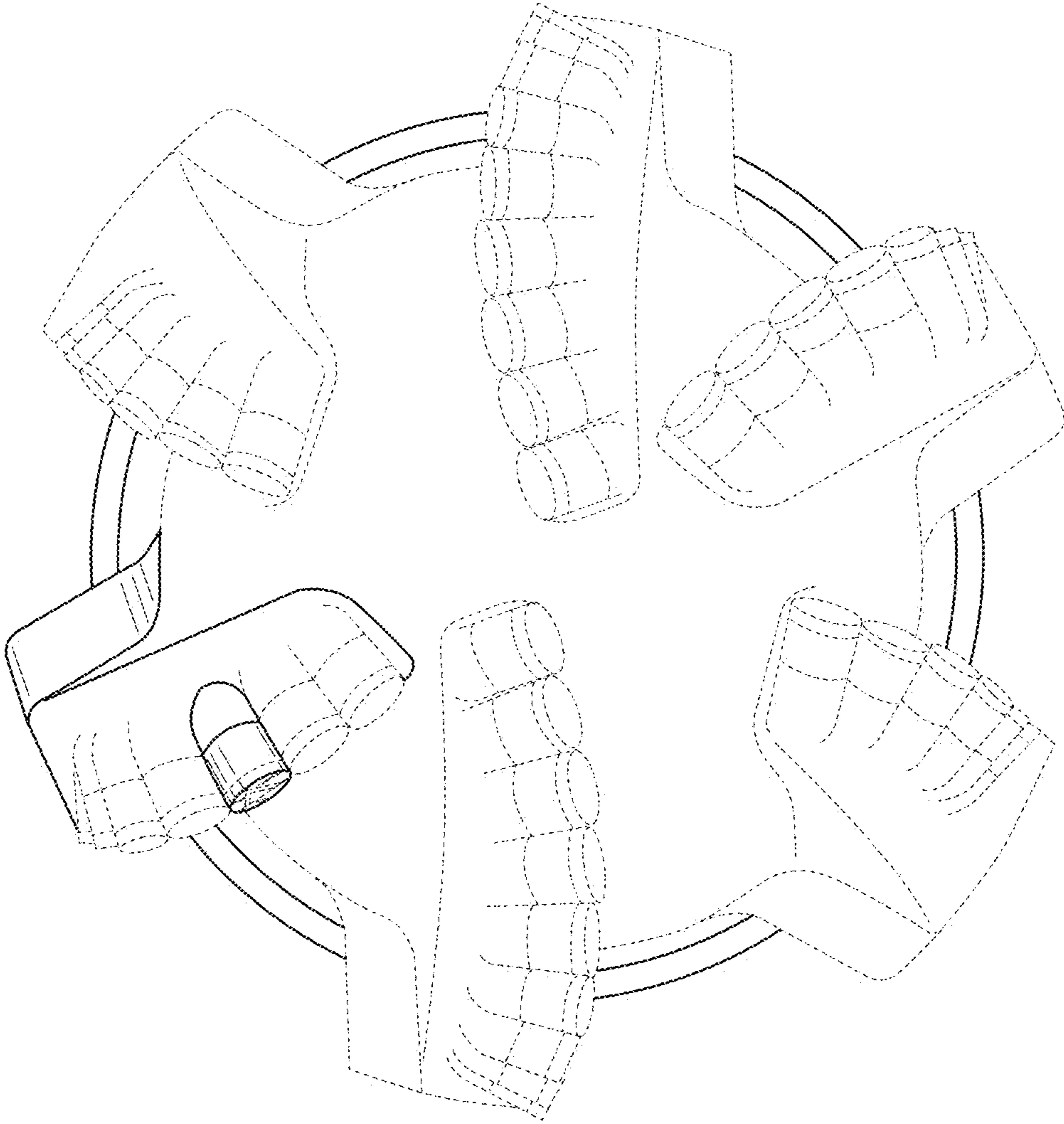


FIG. 2