



US00D947910S

(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
- (73) Assignee: **US Synthetic Corporation,** Orem, UT 5,649,604 A 7/1997 Fuller et al.
(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

- (21) Appl. No.: **29/786,961** EP 0542237 A1 5/1993
- (22) Filed: **Jun. 3, 2021** EP 0841463 A2 5/1998

(Continued)

Related U.S. Application Data

- (62) Division of application No. 29/676,553, filed on Jan. 11, 2019, now Pat. No. Des. 924,949.
- (51) **LOC (13) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/139; D15/138**
- (58) **Field of Classification Search**
USPC D15/77, 133, 138, 139; D8/66
CPC A01G 23/067; B02C 4/305; B02C 7/12;
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

Issue Notification for U.S. Appl. No. 29/676,553 dated Jun. 23, 2021.

(Continued)

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(57) **CLAIM**

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

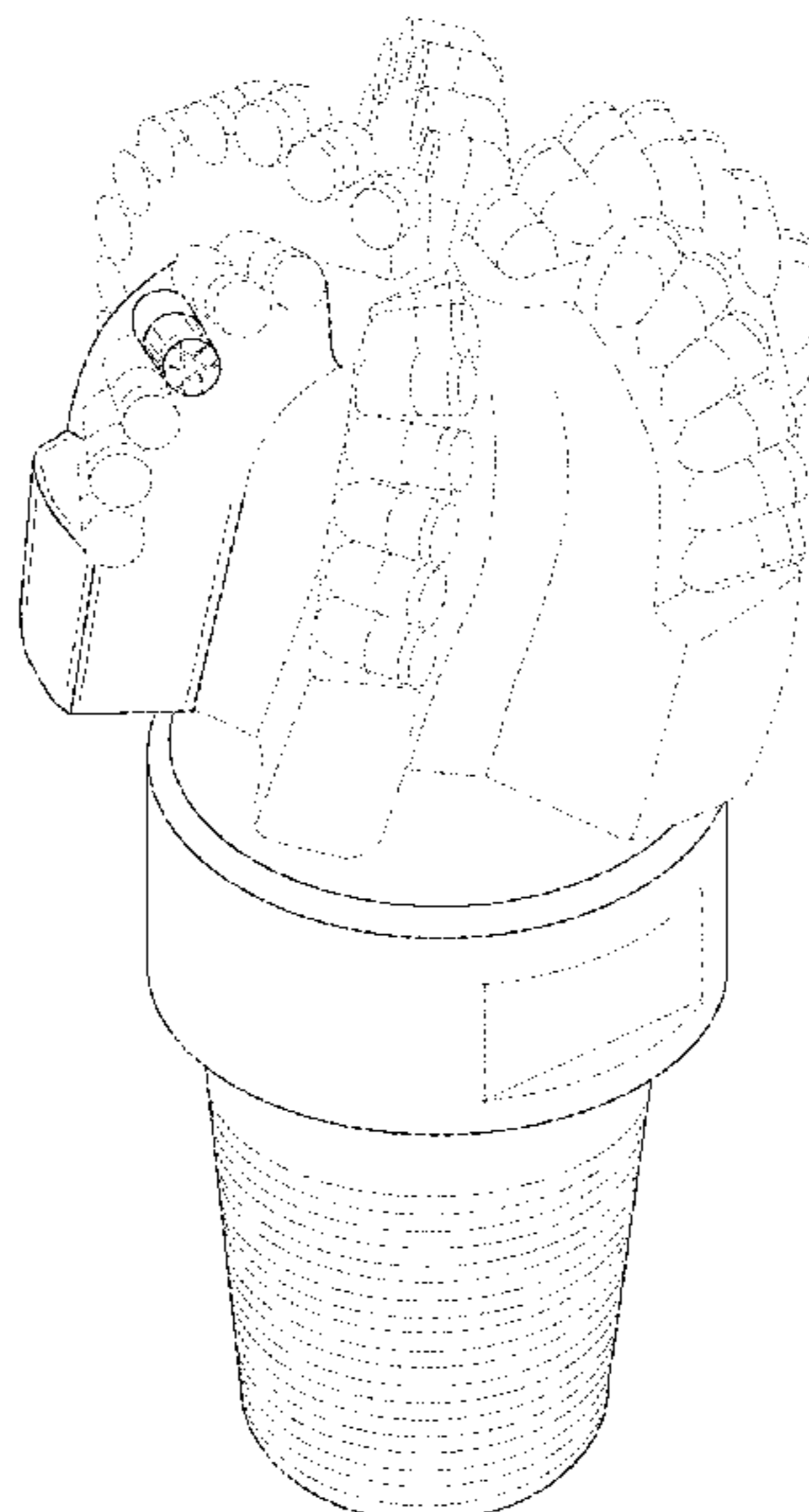
DESCRIPTION

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

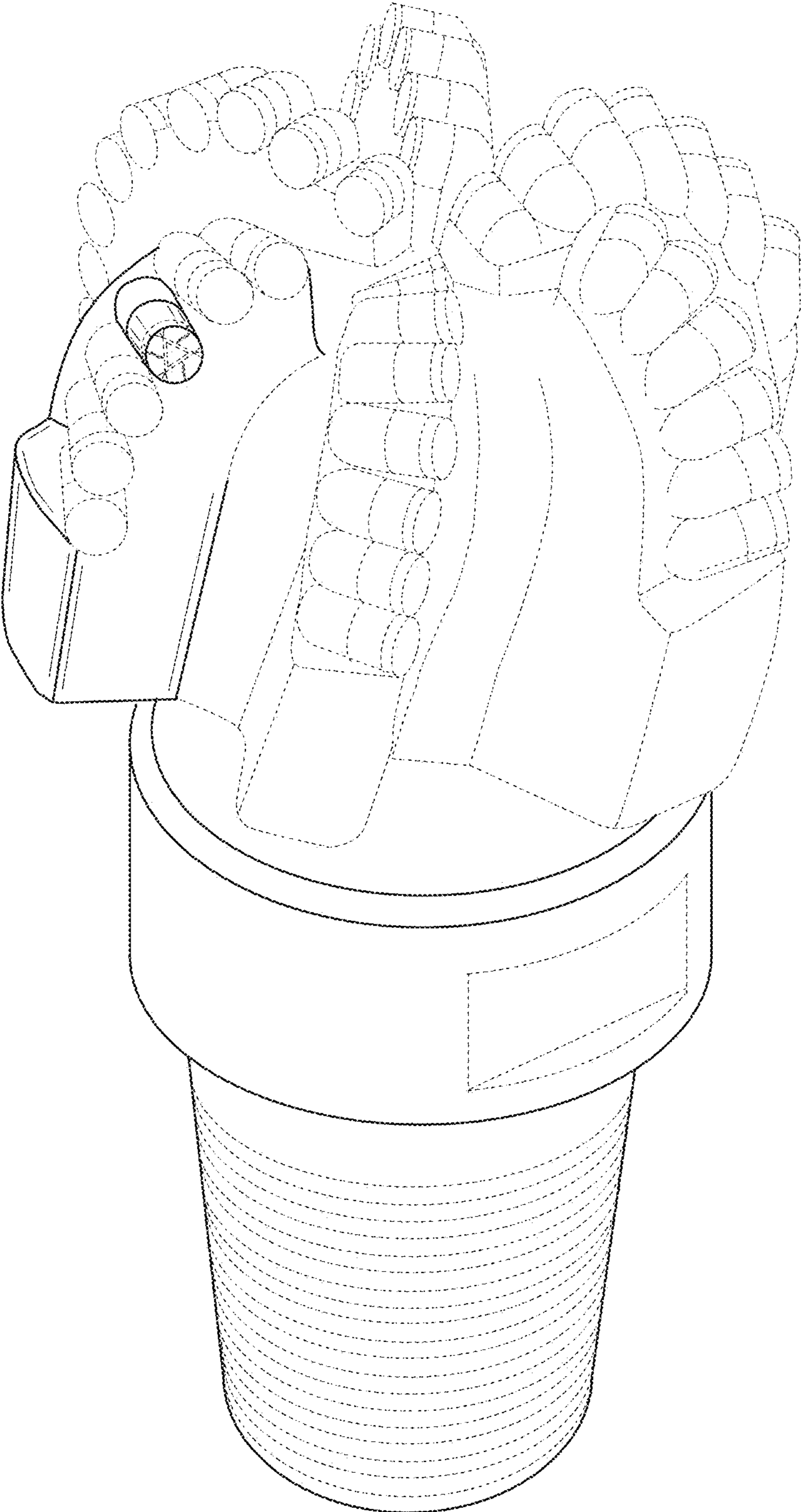


FIG. 1

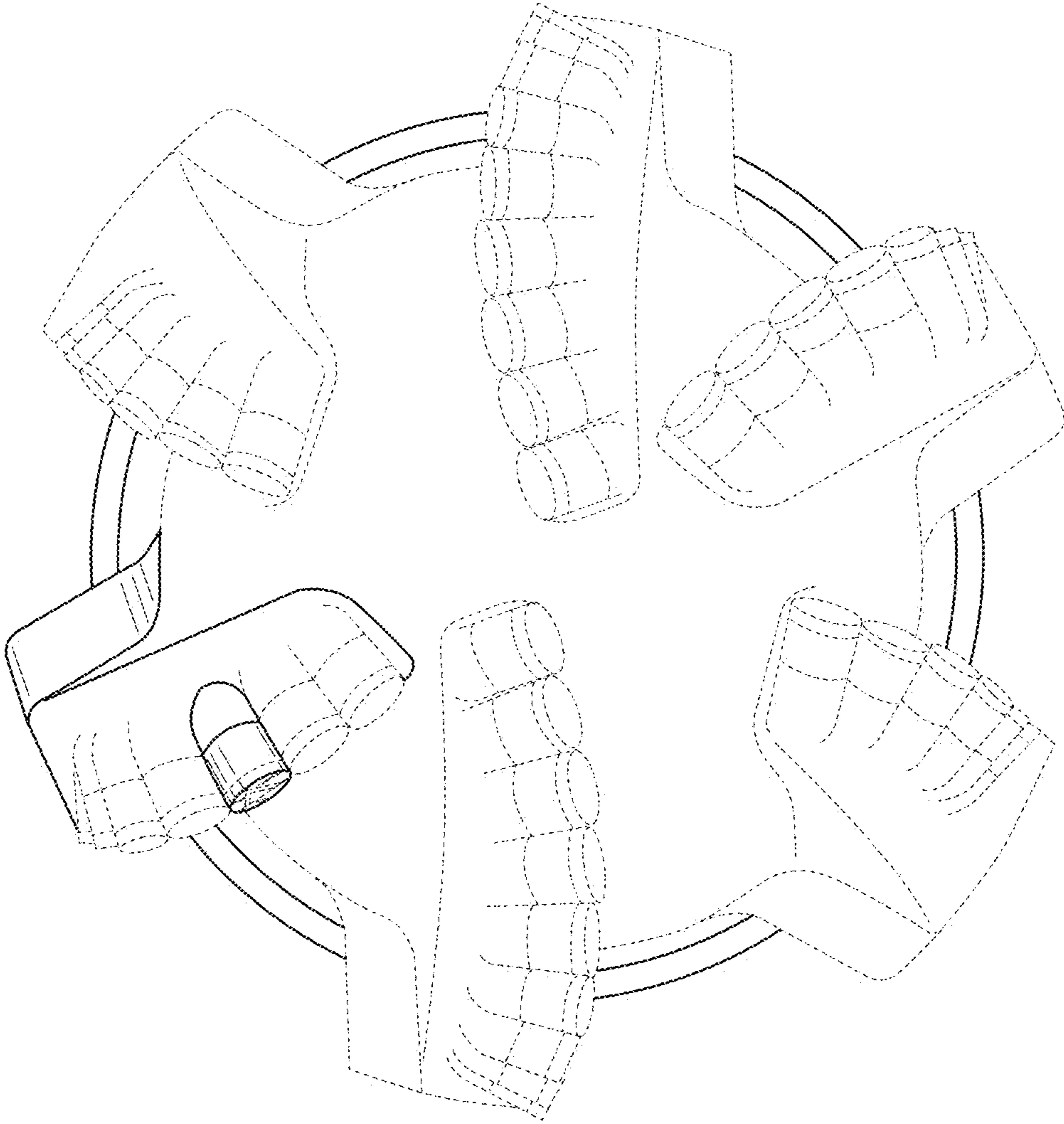


FIG. 2