

(12) **United States Design Patent** (10) **Patent No.:** **US D1,040,875 S**
Patil et al. (45) **Date of Patent:** **** *Sep. 3, 2024**

(54) **CUTTING INSERT**

(71) Applicant: **SECO TOOLS AB**, Fagersta (SE)

(72) Inventors: **Sudarshan Patil**, Fagersta (SE);
Magnus Sjölin, Fagersta (SE);
Tommy Pitkänen, Fagersta (SE);
Manoj Tathe, Fagersta (SE)

(73) Assignee: **SECO TOOLS AB**, Fagersta (SE)

(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/815,721**

(22) Filed: **Nov. 16, 2021**

(30) **Foreign Application Priority Data**

May 17, 2021 (EM) 008543920-0001

(51) **LOC (14) Cl.** **15-09**

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

(58) **Field of Classification Search**
USPC D15/21, 28, 77, 122, 126, 127, 131-133,
D15/138, 139, 144; D8/21, 66, 70, 71,
D8/90, 98
CPC B23C 2200/045; B23C 2200/0461; B23C
2200/0483; B23C 2200/081; B23C
2200/086; B23C 2200/128; B23C
2200/206; B23C 2200/32; B23C
2200/326; B23C 2210/02; B23C 2210/03;
B23C 5/207; B23C 5/06; B23C 5/15;
B27G 13/00; B27G 13/10; B02C 4/305;
B02C 7/12; B02C 13/28; B02C 13/2804;
B02C 18/18; B23B 2200/0461; B23B
2200/087; B23B 2200/321; B23B 27/007;
B23B 27/143; B23B 51/02; B23B 51/048

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,606,678 A * 8/1986 Zweekly B23B 27/143
407/116
4,626,140 A * 12/1986 Zweekly B23B 27/143
407/62
D351,606 S * 10/1994 Markusson D30/129
D390,578 S * 2/1998 Satran D15/139
5,934,844 A * 8/1999 Woolley B23B 27/143
407/115

(Continued)

OTHER PUBLICATIONS

[FomaSP Carbide Inserts for Aluminum RCGT1204], available in Amazon.com, date first available Jul. 7, 2020 [online], [site visited Dec. 5, 2023], Available from the internet URL: https://www.amazon.com/FomaSP-Carbide-Aluminum-RCGT1204-Finishing/dp/B08CV95RKC/ref=sr_1_17 (Year: 2020).*

(Continued)

Primary Examiner — Calvin E Vansant

Assistant Examiner — Kaitlyn G Wiltshire

(74) *Attorney, Agent, or Firm* — Volpe Koenig

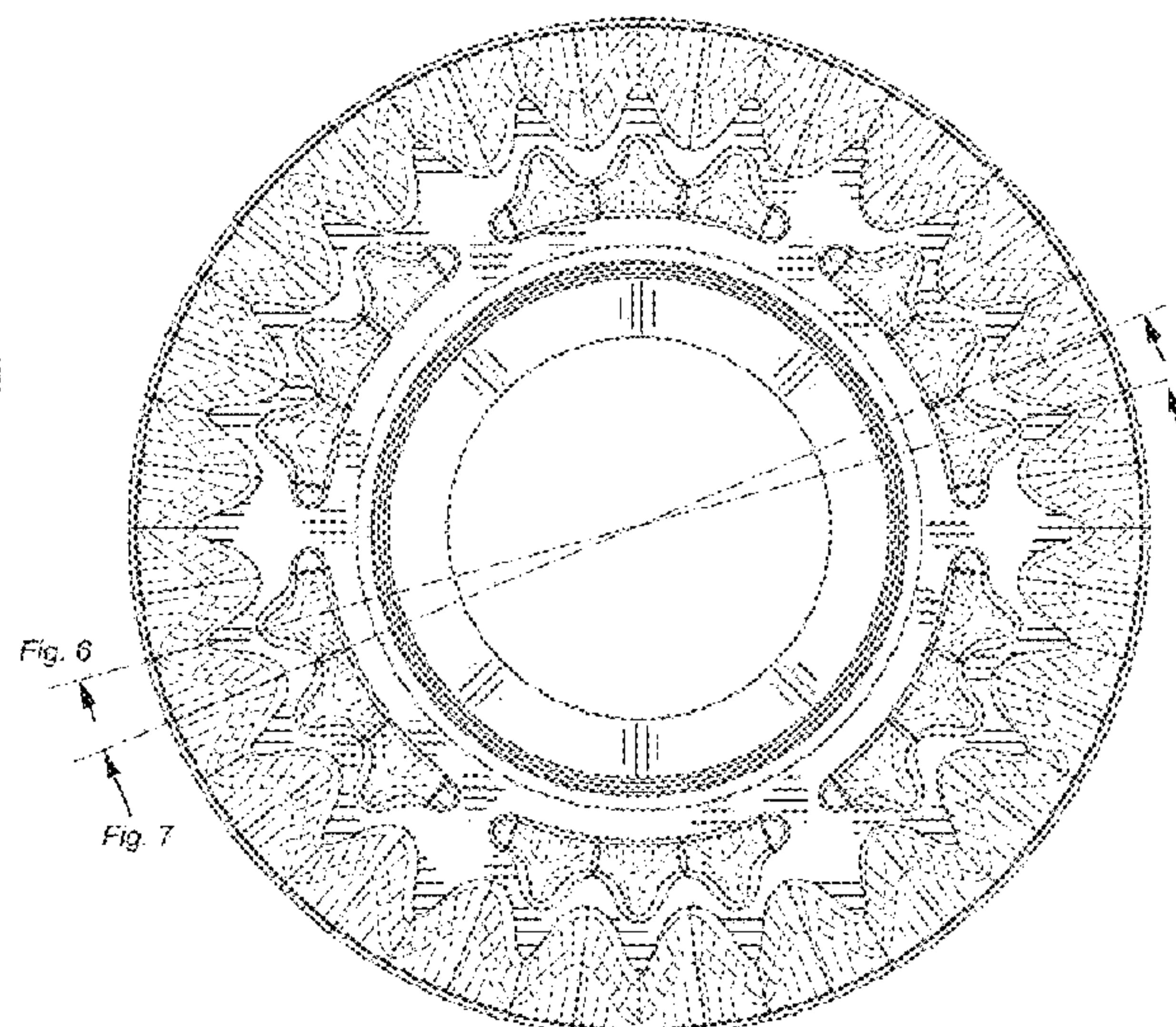
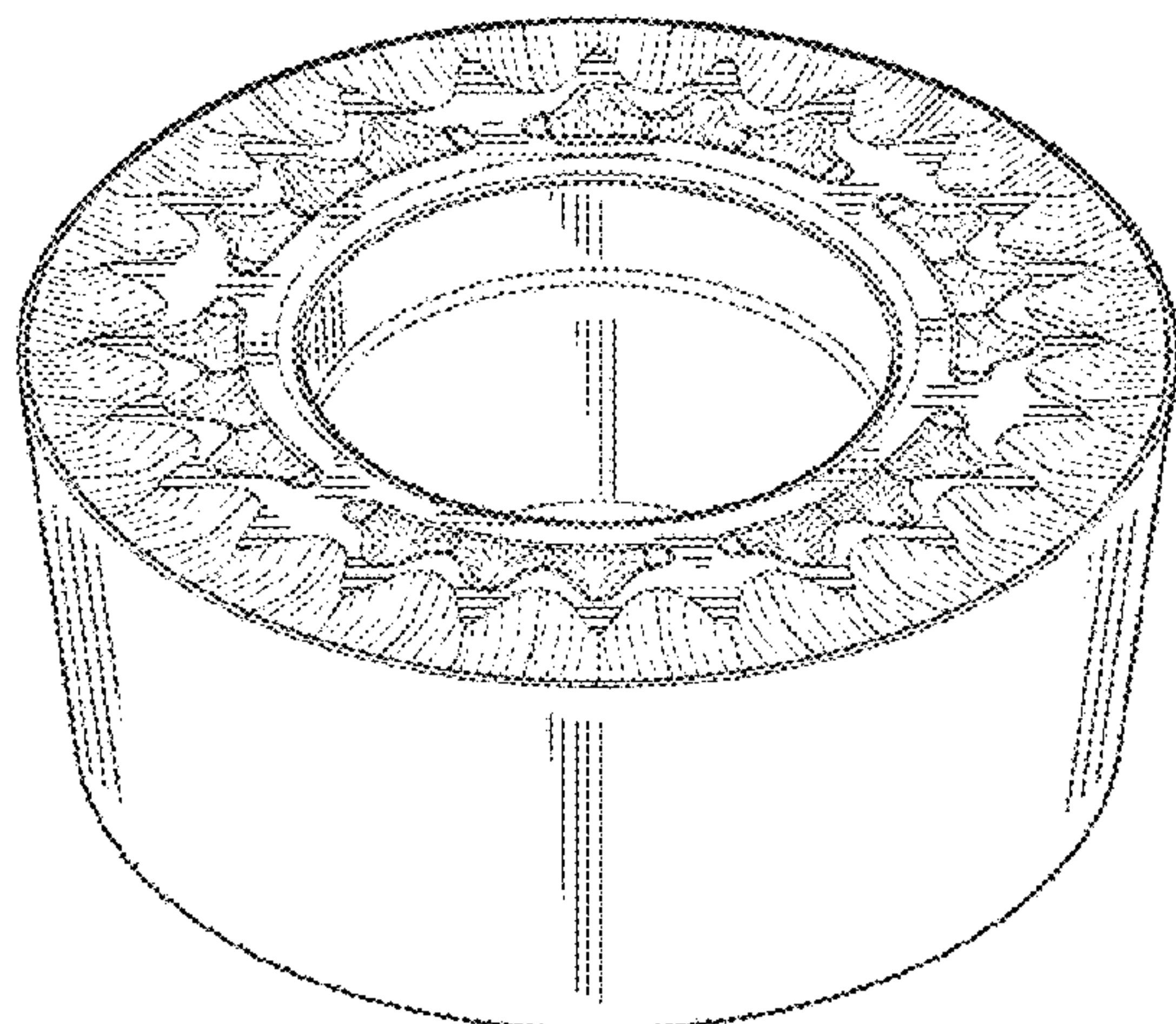
(57) **CLAIM**

The ornamental design for a cutting insert, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a cutting insert in accordance with our design;
FIG. 2 is a bottom perspective view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a side elevational view thereof;
FIG. 6 is a cross-sectional view taken along line 6-6 in FIG. 3 to show a portion of the top profile; and,
FIG. 7 is a cross-sectional view taken along line 7-7 in FIG. 3 to show a portion of the top profile.

1 Claim, 6 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

D442,193 S * 5/2001 Isaksson D15/139
D673,194 S * 12/2012 Kovac D15/139
D708,237 S * 7/2014 Matsubara D15/139
D710,411 S * 8/2014 Matsubara D15/139
D890,235 S * 7/2020 Maeno D15/139
D891,490 S * 7/2020 Maeno D15/139
D937,330 S * 11/2021 Kukino D15/139
2011/0164934 A1 * 7/2011 Chen B23B 27/143
407/116
2014/0219734 A1 * 8/2014 Hoffer B23C 5/003
29/428
2015/0298226 A1 * 10/2015 Deguchi B23C 5/205
407/62
2016/0067797 A1 * 3/2016 Deguchi B23C 5/202
407/115
2016/0271707 A1 * 9/2016 Lee B23C 5/202
2018/0257086 A1 * 9/2018 Yeung A23F 3/06
2020/0406376 A1 * 12/2020 Jansson B23C 5/202
2022/0234115 A1 * 7/2022 Lof B23B 27/1614

[CDBP RCGT0602MO-LH CNC Lathe Cutter Cutting Blades],
available in Amazon.com, date first available Mar. 8, 2022 [online],
[site visited Dec. 5, 2023], Available from the internet URL:
<https://www.amazon.com/CDBP-Carbide-Inserts-Aluminum-Finishing/dp/B09V2748M9> (Year: 2022).*
[Steel Turning demo with hypnotic chip flow], announced in YouTube
on Oct. 17, 2022 [online], [site visited Dec. 5, 2023], Available from
the internet URL: <https://www.youtube.com/watch?v=vREpZ58dSEI>
(Year: 2022).*
[Seco MF2 Chipbreaker on Round RCMT/RCGT Inserts], available
in secotools.com, unknown publish date [online], [site visited Dec.
5, 2023], Internet URL: <https://www.secotools.com/article/124654>
(Year: 2023).*

* cited by examiner

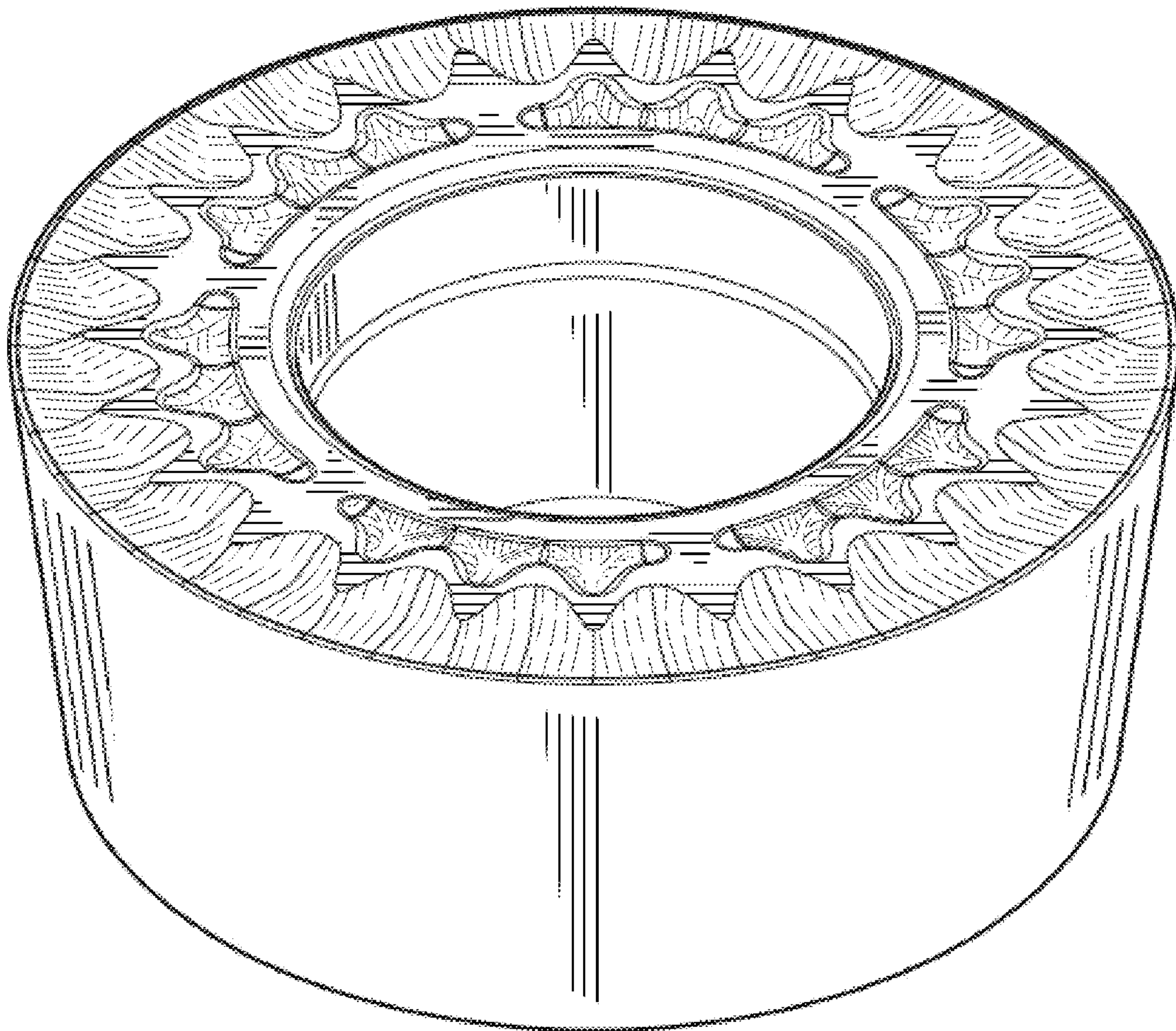


Fig. 1

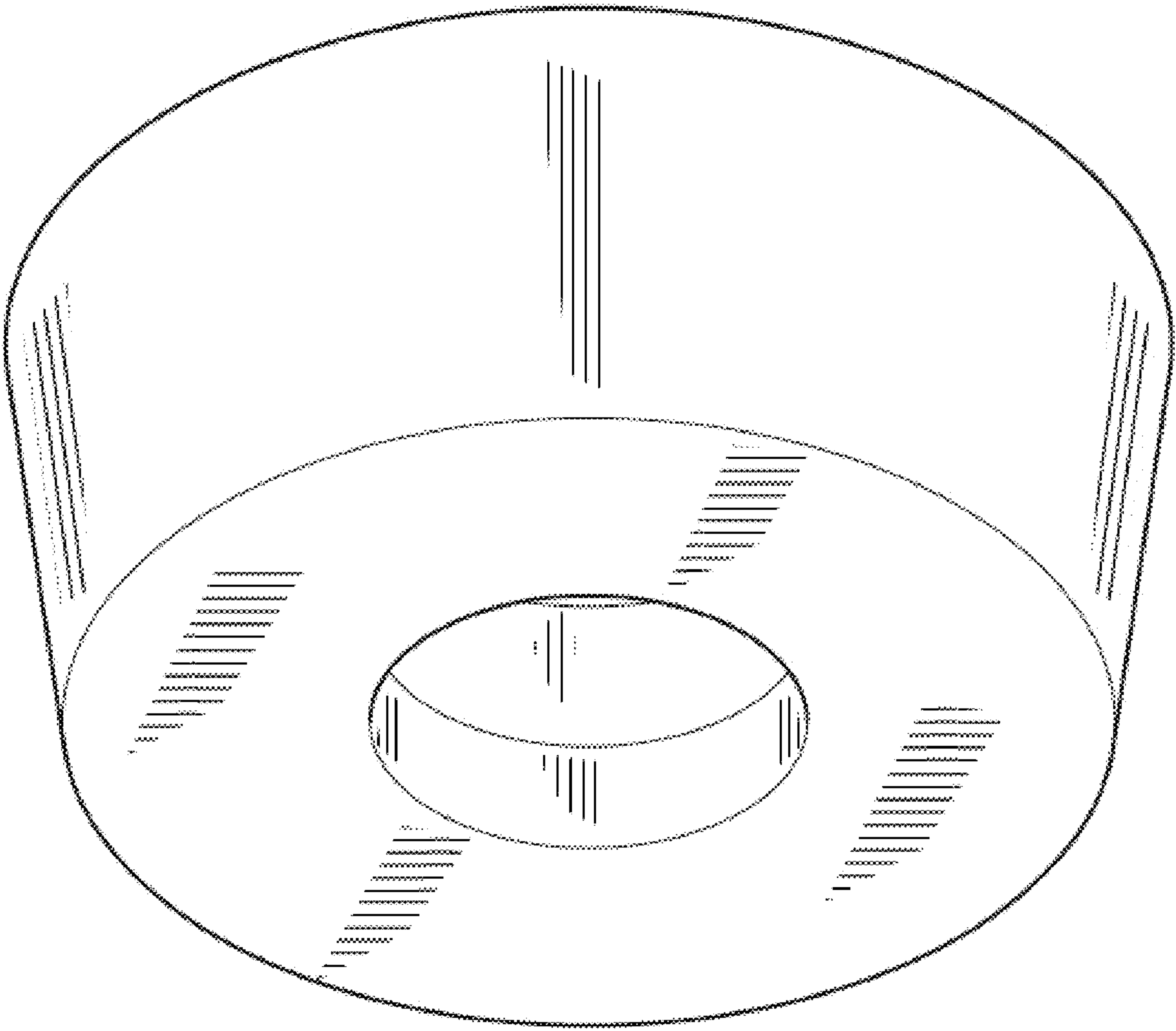


Fig. 2

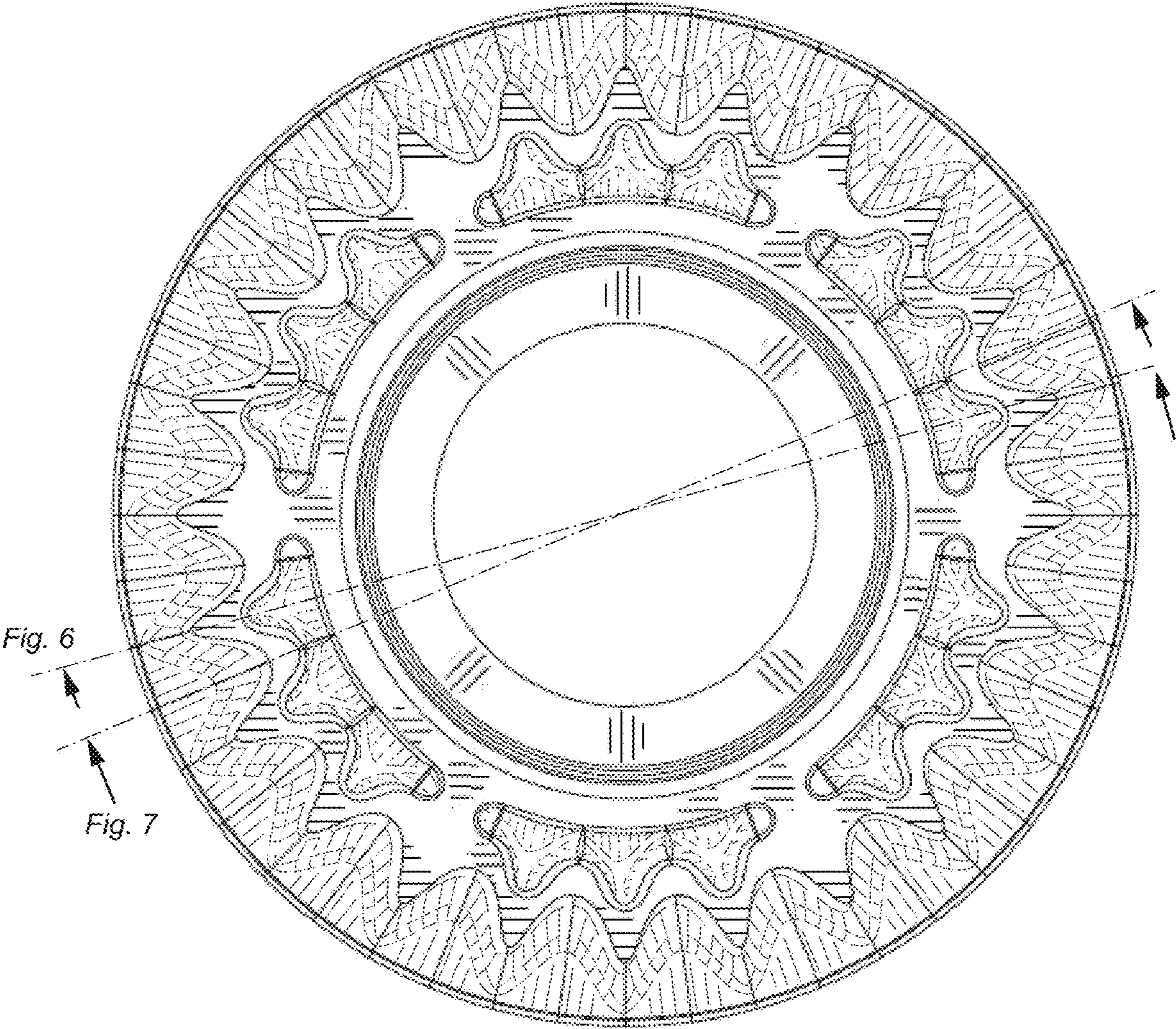


Fig. 3

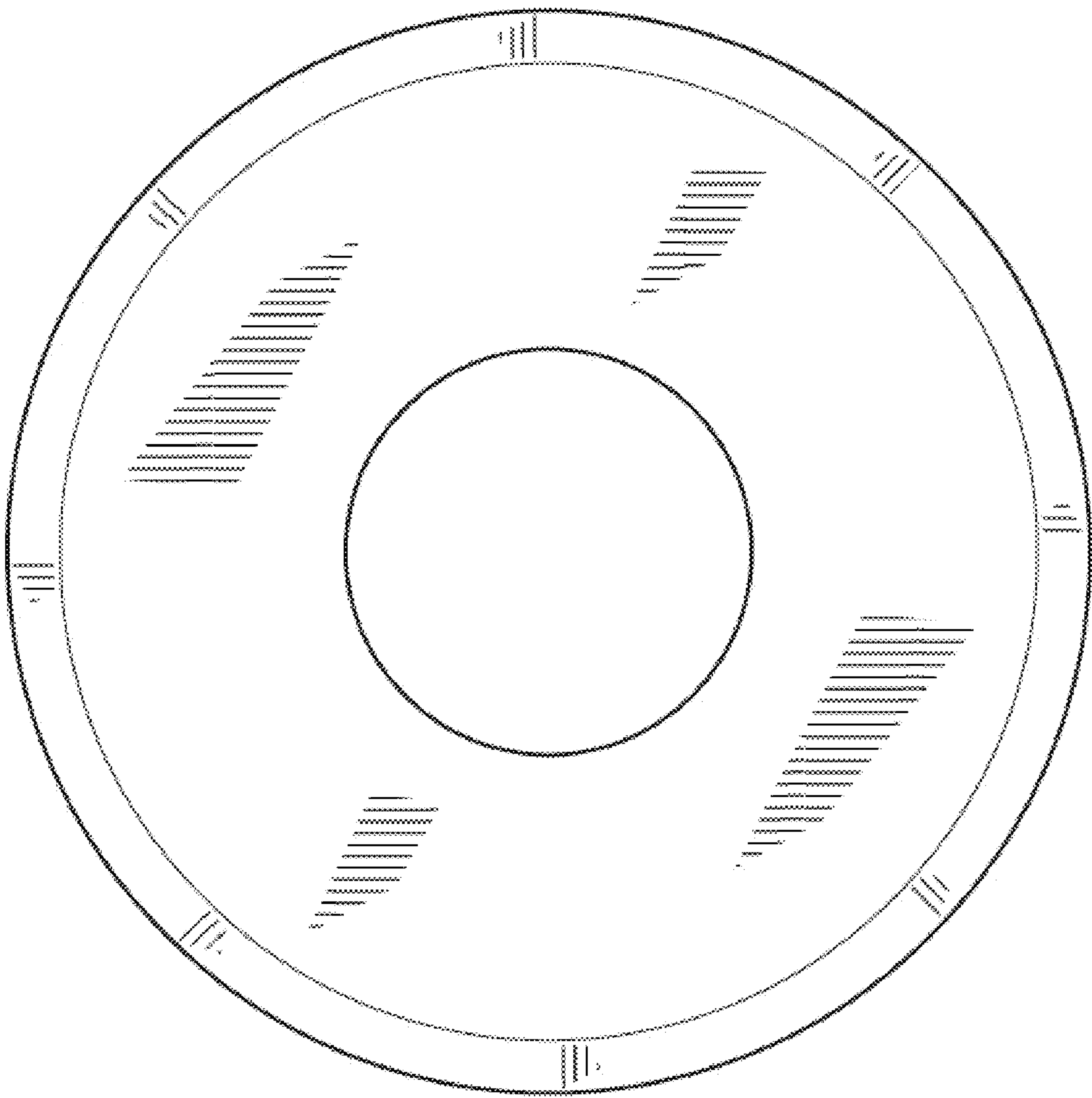


Fig. 4

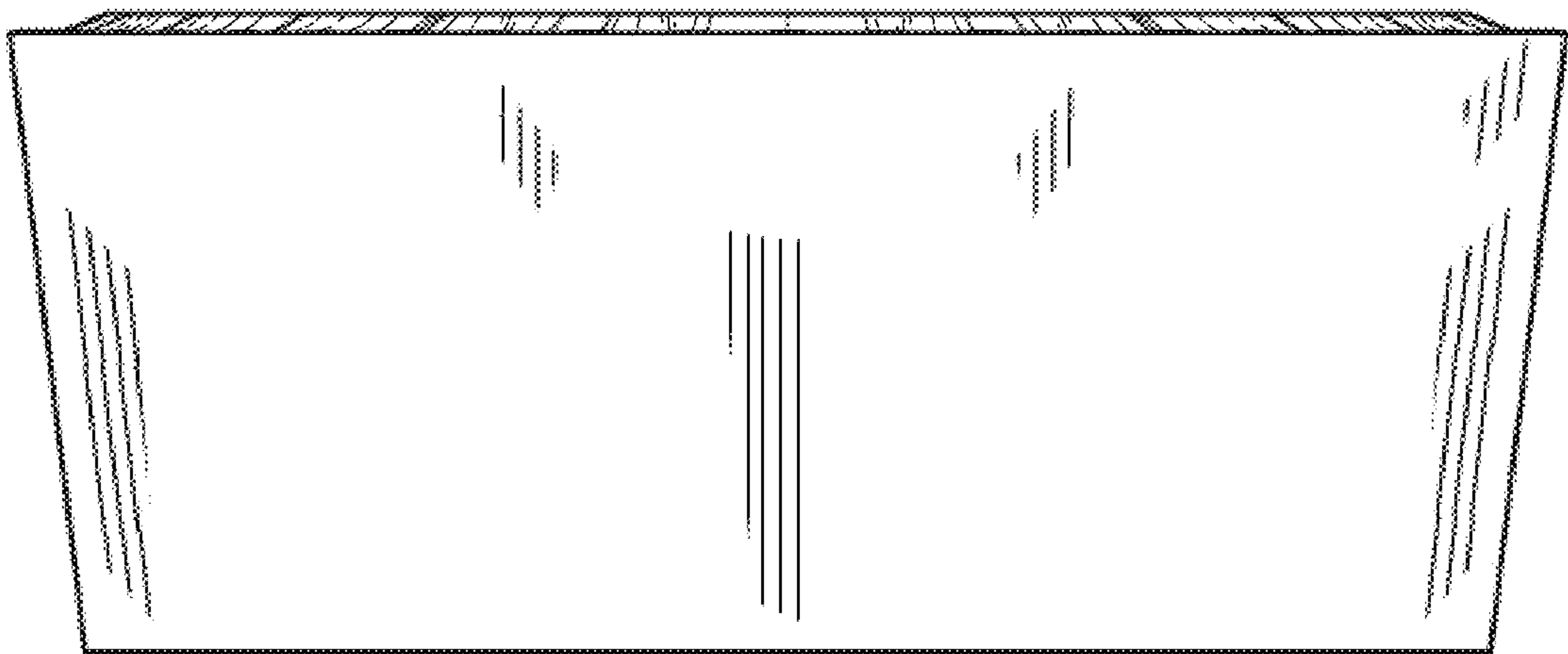


Fig. 5

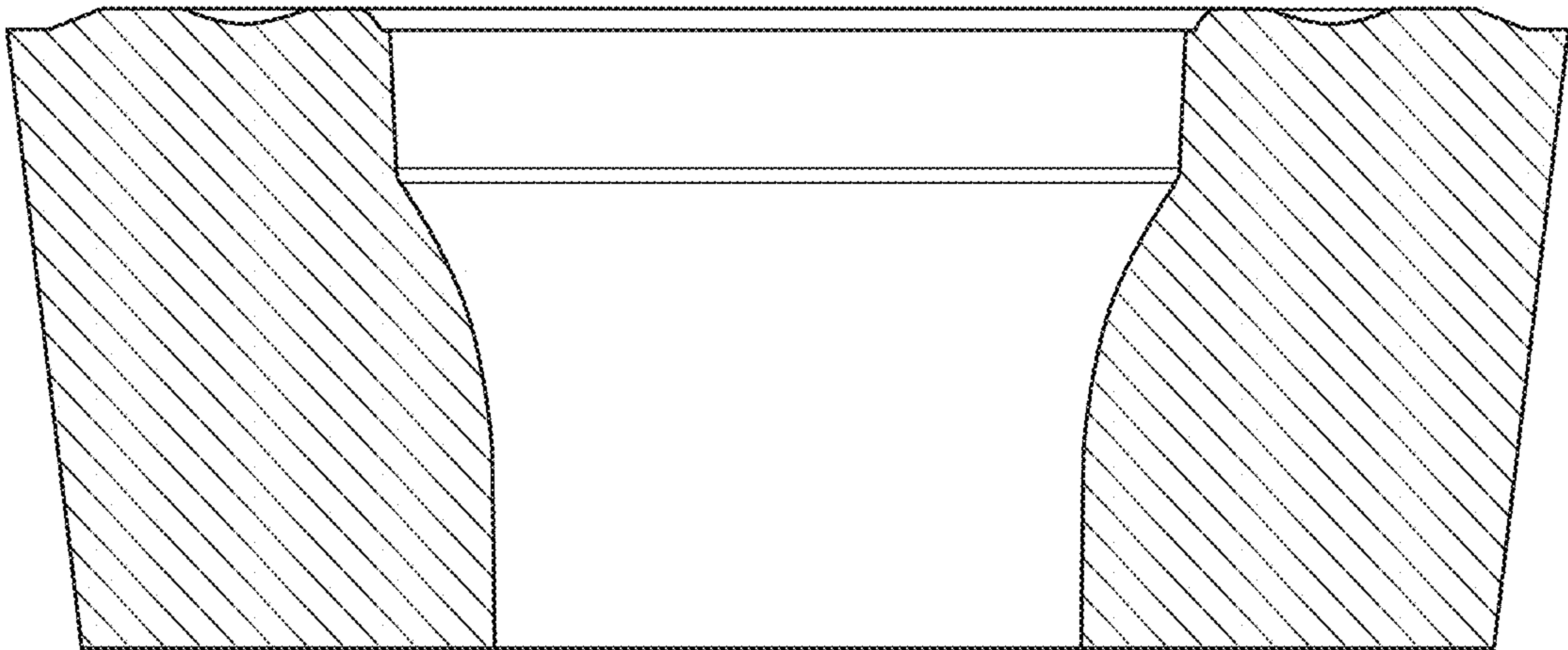


Fig. 6

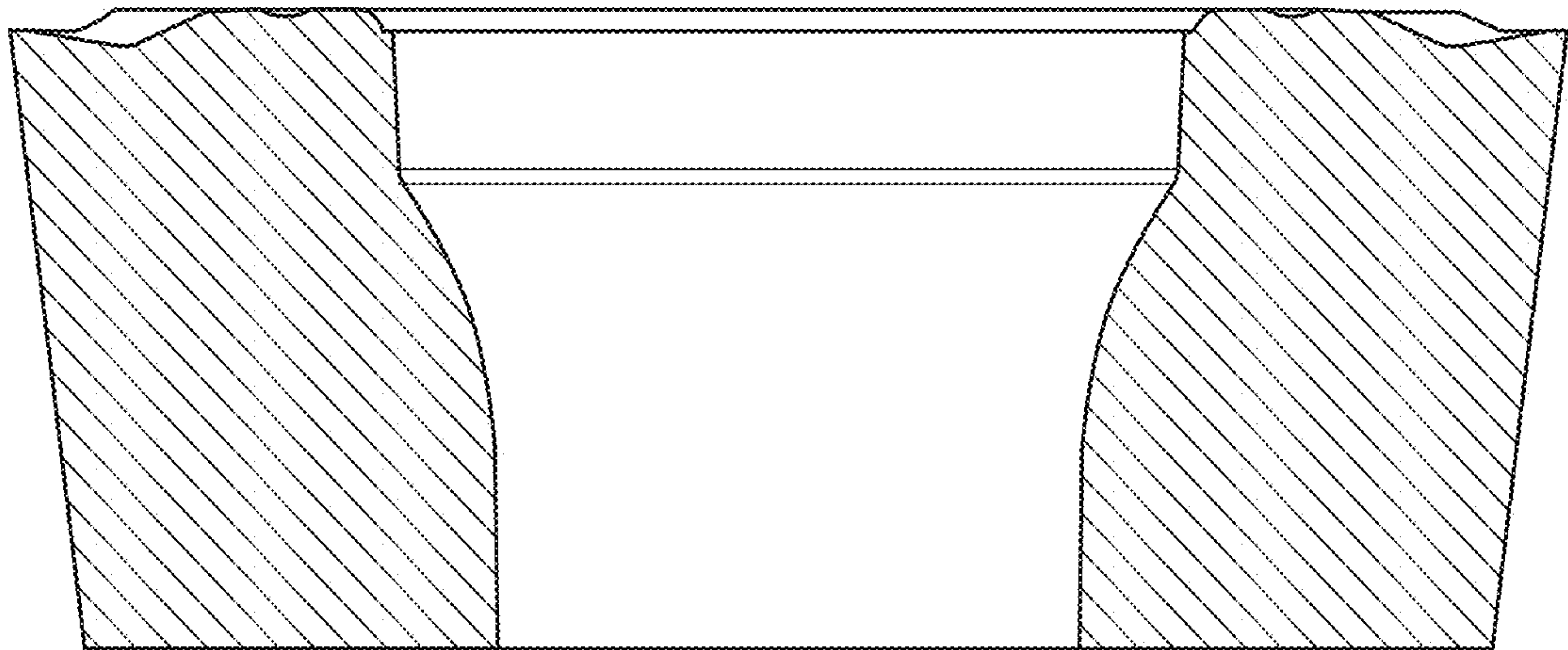


Fig. 7