



US00D935951S

(12) **United States Design Patent** (10) **Patent No.:** **US D935,951 S**
Handel et al. (45) **Date of Patent:** **** Nov. 16, 2021**

(54) **WHEELCHAIR HAND RIM** 4,593,929 A 6/1986 Williams
4,601,598 A 7/1986 Schwartz et al.
(71) Applicant: **HBT Innovations LLC**, Visalia, CA 4,687,218 A 8/1987 Okamoto
(US) D304,815 S * 11/1989 Jones D12/133
4,917,395 A 4/1990 Gabriele
(72) Inventors: **Brandon Handel**, Visalia, CA (US); D320,922 S 10/1991 Lurkis
Jacob Barber, Visalia, CA (US) 5,097,566 A 3/1992 Decker et al.
D364,372 S 11/1995 Rony
(73) Assignee: **HBT Innovations LLC**, Visalia, CA 5,848,559 A 12/1998 Harrill
(US) 5,857,241 A 1/1999 Camp et al.
5,927,739 A 7/1999 Evling
(**) Term: **15 Years** 6,120,047 A 9/2000 Axelson et al.
6,241,268 B1 6/2001 Niklasson
(21) Appl. No.: **29/665,480** 6,276,705 B1 8/2001 Baldwin et al.
6,532,843 B2 3/2003 Chang
6,634,663 B2 10/2003 Mitchell
(22) Filed: **Oct. 3, 2018** (Continued)

FOREIGN PATENT DOCUMENTS

DE 10033327 A1 1/2002
FR 556110 A 7/1923
GB 002453944 4/2009

Primary Examiner — Charles D Hanson
(74) *Attorney, Agent, or Firm* — Glass and Associates;
Kenneth D'Alessandro; Kenneth Glass

Related U.S. Application Data

(63) Continuation of application No. 13/749,456, filed on Jan. 24, 2013, now abandoned.
(51) **LOC (13) Cl.** **12-12**
(52) **U.S. Cl.**
USPC **D12/133**
(58) **Field of Classification Search**
USPC D12/131, 133
CPC A61G 5/00-14
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a wheelchair hand rim, as shown and described.

(56) **References Cited**

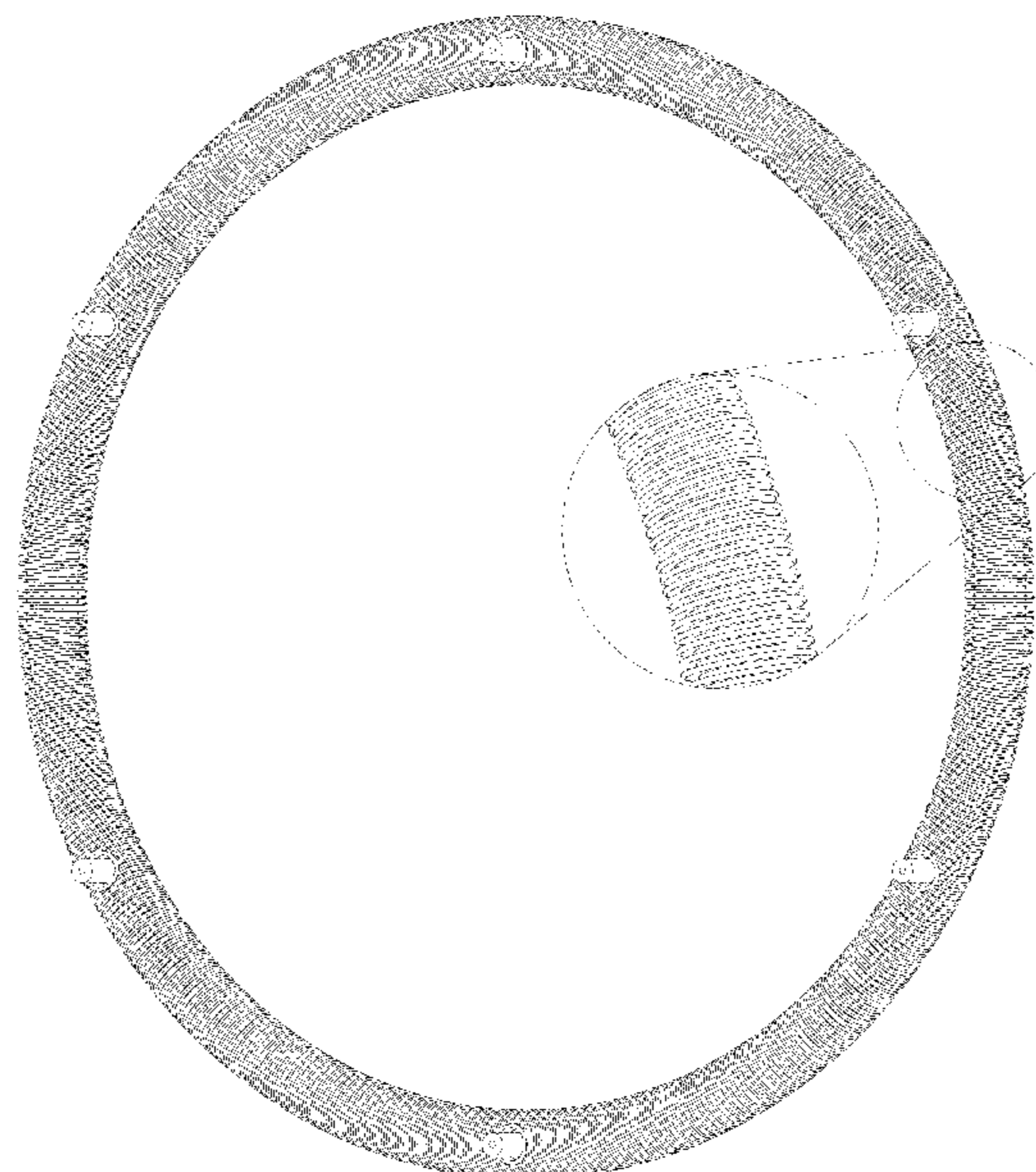
DESCRIPTION

U.S. PATENT DOCUMENTS

2,222,388 A 11/1940 Zimmer
2,621,043 A 12/1952 Olmstead
2,666,340 A 1/1954 Hunt
2,704,668 A 3/1955 Park
2,984,486 A 5/1961 Jones
3,216,052 A 11/1965 Hill
3,623,748 A 11/1971 Haynes
3,869,146 A 3/1975 Bulmer
4,039,199 A 8/1977 Quinby
4,366,964 A 1/1983 Farey et al.

FIG. 1 is a front perspective view of the wheelchair hand rim showing the new design;
FIG. 2 is a front plan view of the wheelchair hand rim;
FIG. 3 is a rear plan view of the wheelchair hand rim; and,
FIG. 4 is a side view of the wheelchair hand rim.
Any broken lines within these figures showing the environment is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,966,569 B2 11/2005 Miyoshi
7,040,642 B2 5/2006 Lowry
7,234,717 B1 6/2007 Thomas
7,296,811 B2 11/2007 Pettit
7,303,203 B1 12/2007 Richter et al.
7,494,081 B2 2/2009 Savakis et al.
D635,063 S * 3/2011 Hildebrant D12/133
D682,162 S * 5/2013 Hildebrant D12/133
8,770,611 B2 7/2014 Richter
10,814,670 B2 * 10/2020 Chen B60B 1/0207
2001/0007389 A1 7/2001 Frauwirth
2004/0103745 A1 6/2004 Willems et al.
2006/0196056 A1 9/2006 Davis
2009/0008901 A1 1/2009 Guzman et al.
2010/0260571 A1 10/2010 Long et al.
2014/0134358 A1 * 5/2014 Hart E04F 11/1808
428/34.1
2014/0367207 A1 * 12/2014 Iwata A61G 5/1037
188/16
2015/0190291 A1 * 7/2015 Landry B29C 45/1459
280/249

* cited by examiner

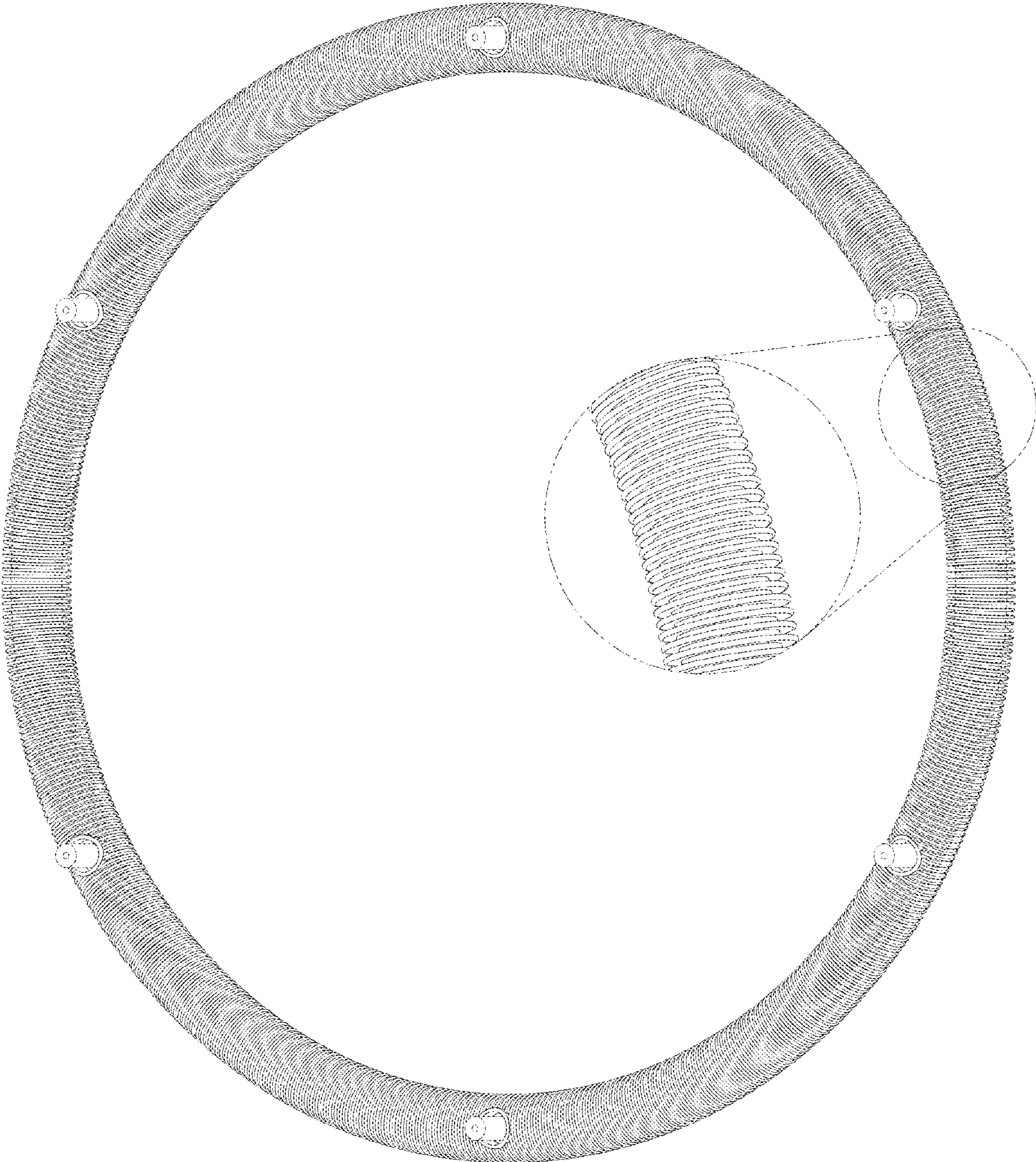


Fig. 1

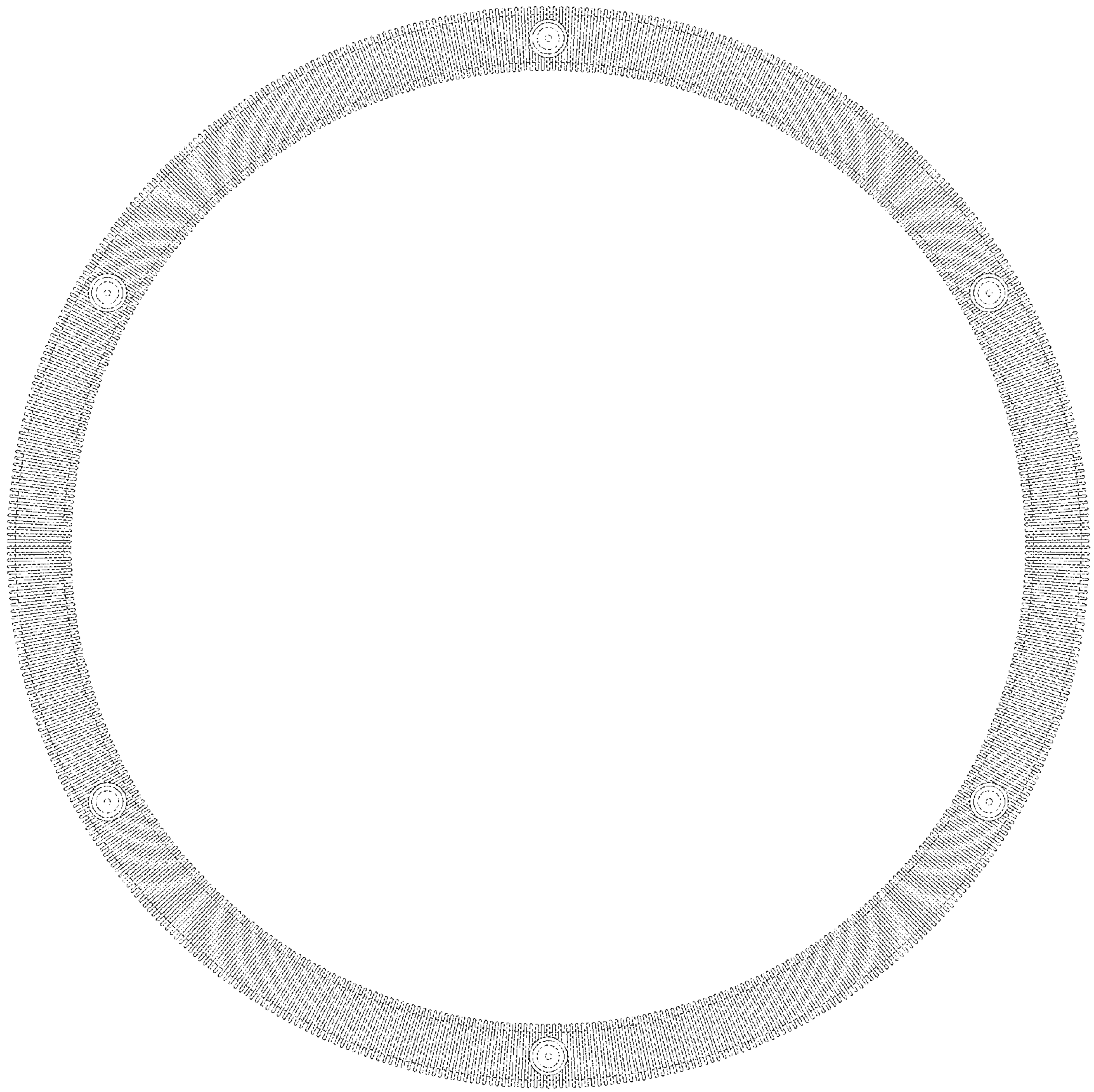


Fig. 2

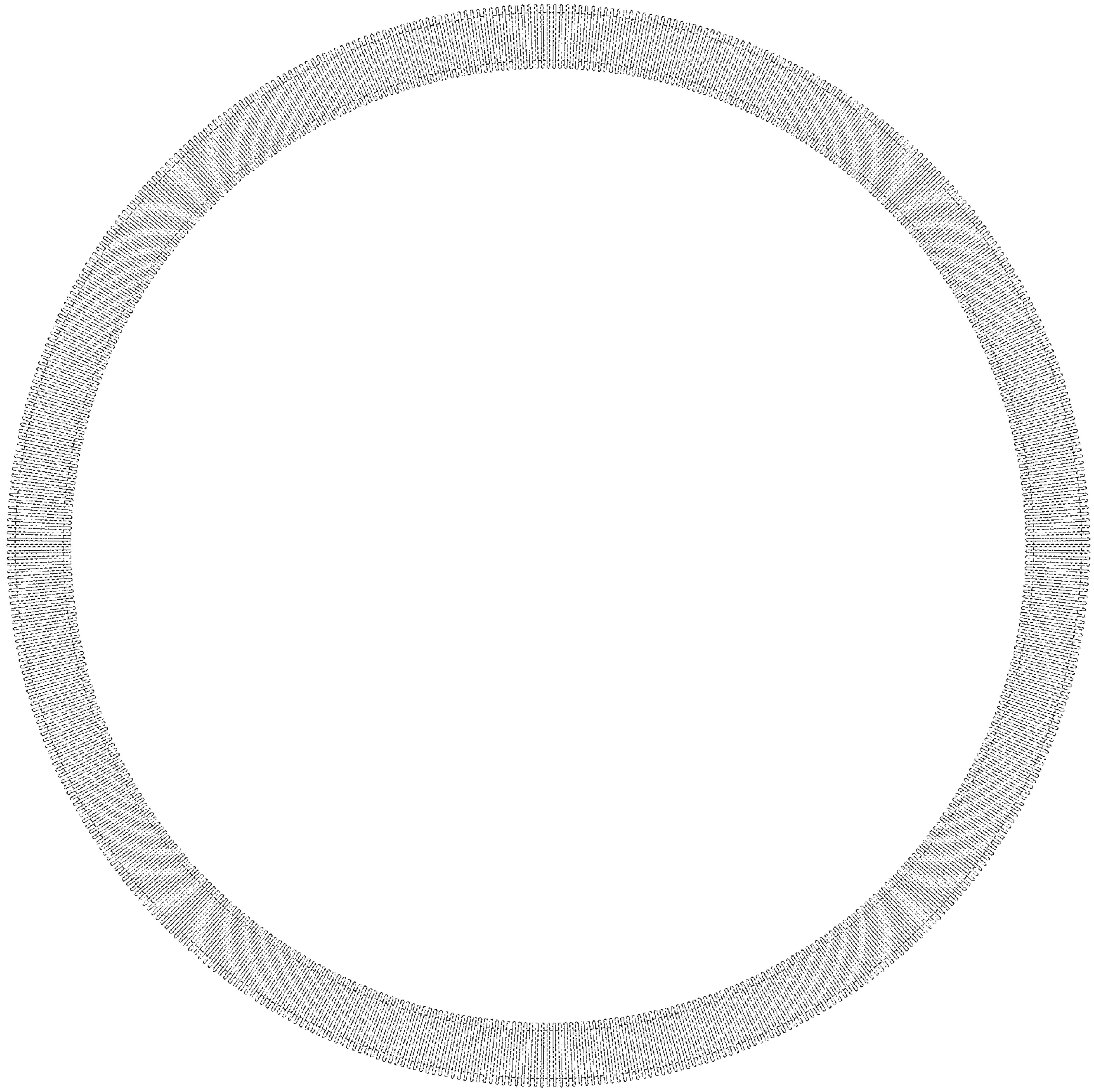


Fig. 3

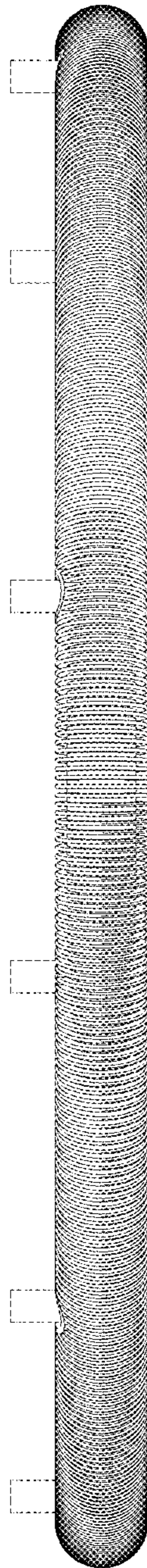


Fig. 4