



US00D821552S

(12) **United States Design Patent** (10) **Patent No.:** **US D821,552 S**
Nakagawa et al. (45) **Date of Patent:** **** Jun. 26, 2018**

(54) **COMPOSITE SEAL**

(71) Applicant: **NIPPON VALQUA INDUSTRIES, LTD.**, Tokyo (JP)

(72) Inventors: **Ippei Nakagawa**, Gojo (JP); **Michi Kuroda**, Gojo (JP); **Sang Ho Kim**, Gojo (JP)

(73) Assignee: **NIPPON VALQUA INDUSTRIES, LTD.**, Tokyo (JP)

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

(21) Appl. No.: **29/605,501**

(22) Filed: **May 26, 2017**

(30) **Foreign Application Priority Data**

Nov. 29, 2016 (JP) 2016-025878

(51) **LOC (11) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/269**

(58) **Field of Classification Search**
USPC D23/269, 262; 277/351–359, 504, 562, 277/563, 572, 361–364, 381, 606, 616, 277/314, 382, 394, 395; D25/48.2, 122, D25/164; 285/42–50
CPC E04D 13/1406; E04D 13/1407; F16K 3/0227; F16K 51/02; F16J 15/106
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,805,442 A 5/1931 Wallfisch
4,226,431 A * 10/1980 Jelinek B62D 5/24 277/354
4,560,174 A * 12/1985 Bisi B62D 55/088 277/382
4,834,398 A * 5/1989 Guzowski F16L 17/035 277/624

4,946,410 A * 8/1990 Haman B63H 23/321 277/351

D323,024 S * 1/1992 Petersson D23/269
D614,271 S 4/2010 Weston

(Continued)

FOREIGN PATENT DOCUMENTS

JP S-1446427 7/2012
TW D127505 S 2/2009

(Continued)

OTHER PUBLICATIONS

Japanese Office Action dated Jun. 5, 2017 which issued in the corresponding Patent Application No. 2016-025878, including English translation.

(Continued)

Primary Examiner — Eric L Goodman

Assistant Examiner — Amy C Wierenga

(74) *Attorney, Agent, or Firm* — Dickinson Wright PLLC

(57) **CLAIM**

The ornamental design for a composite seal, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a composite seal showing our new design.

FIG. 2 is a rear view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is a right view thereof;

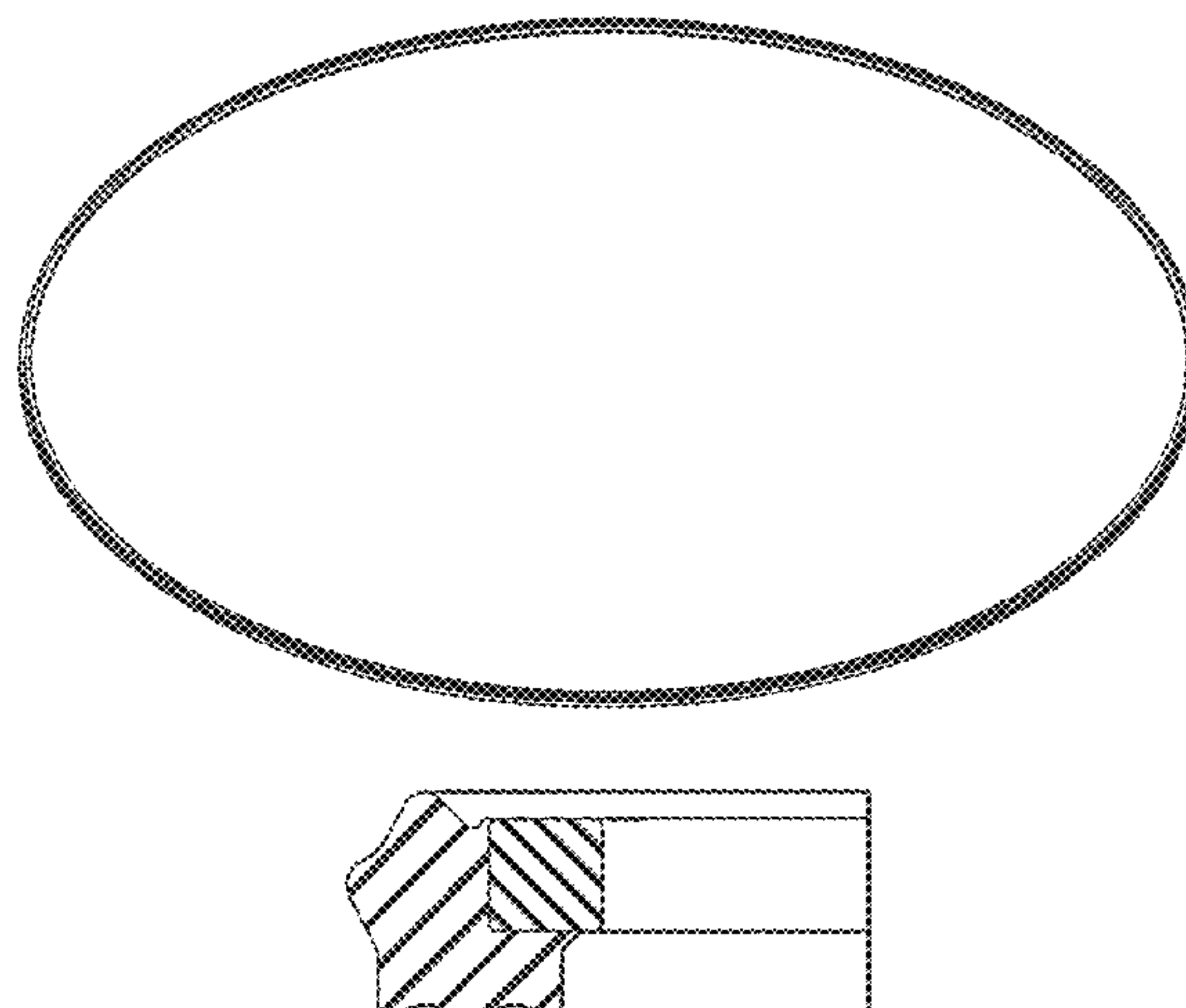
FIG. 6 is a left view thereof;

FIG. 7 is a perspective view thereof;

FIG. 8 is a cross-sectional view of the portion VIII-VIII of FIG. 3 thereof; and,

FIG. 9 is an enlarged cross-sectional view of the portion IX-IX of FIG. 8 thereof.

1 Claim, 3 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D633,991	S	3/2011	Nakagawa	
D655,401	S	3/2012	Muramatsu	
D655,797	S *	3/2012	Muramatsu	 D23/269
D802,723	S *	11/2017	Miyamoto	 D23/269
2005/0001195	A1 *	1/2005	Blease	 F16J 15/104
				251/171
2015/0279706	A1	10/2015	Nakagawa	

FOREIGN PATENT DOCUMENTS

TW	D149670	S	10/2012
TW	D163769	S	10/2014
TW	D164826	S	12/2014
TW	D164827	S	12/2014
TW	D166713	S	3/2015
TW	D180129	S	12/2016
TW	D183422	S	6/2017

OTHER PUBLICATIONS

Notice of Allowance in related Taiwanese Design Application No. 106302850 dated Oct. 27, 2017.
Notice of Allowance in related Taiwanese Design Application No. 106302851 dated Oct. 27, 2017.
Quayle Action in related Design U.S. Appl. No. 29/605,508 dated Dec. 22, 2017.

* cited by examiner

FIG.1

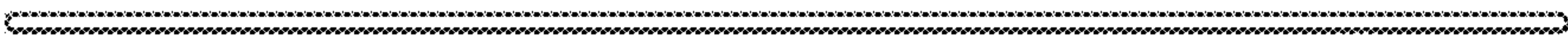


FIG.2

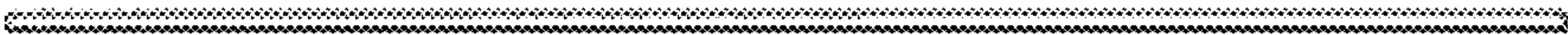


FIG.3

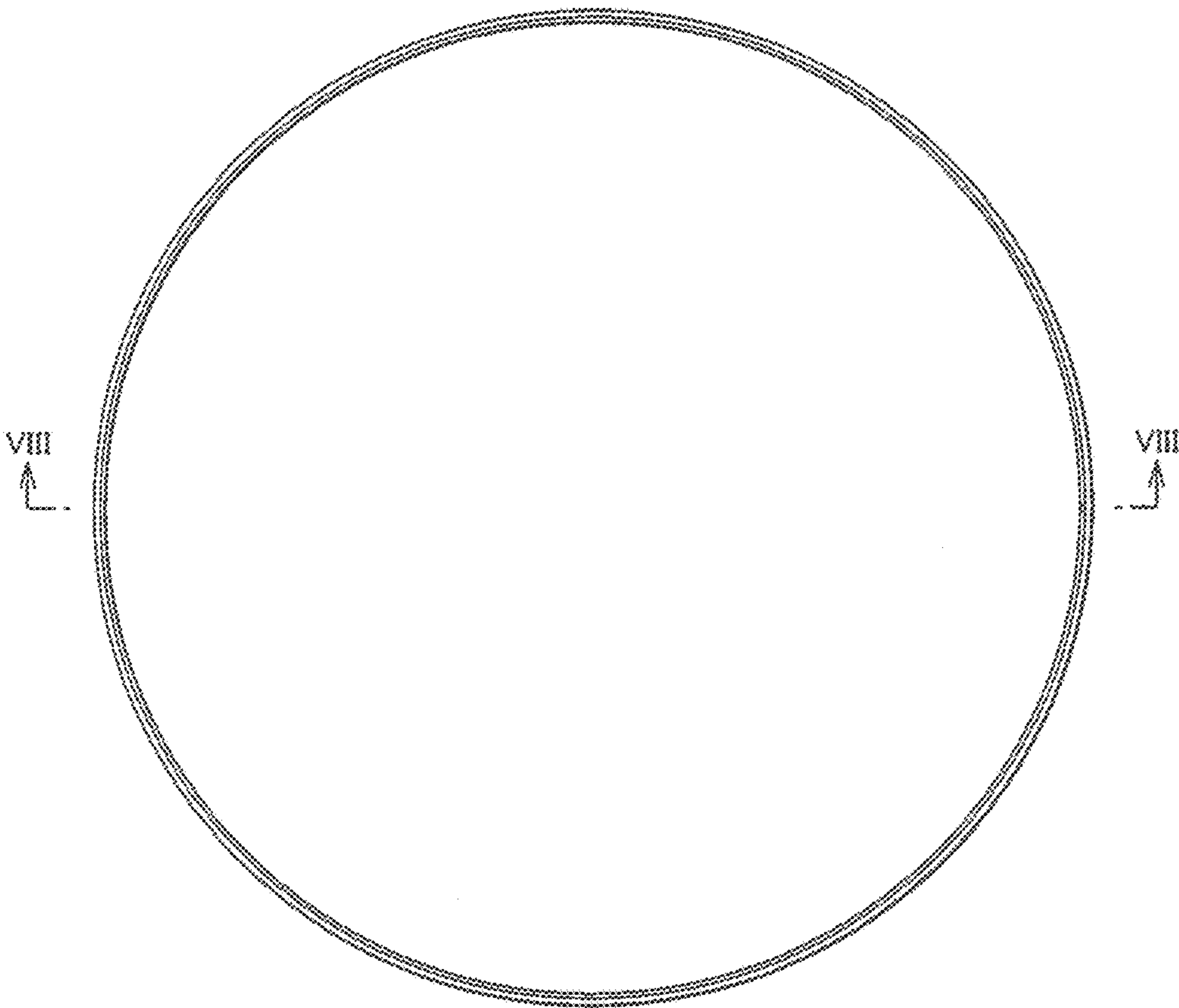


FIG.4

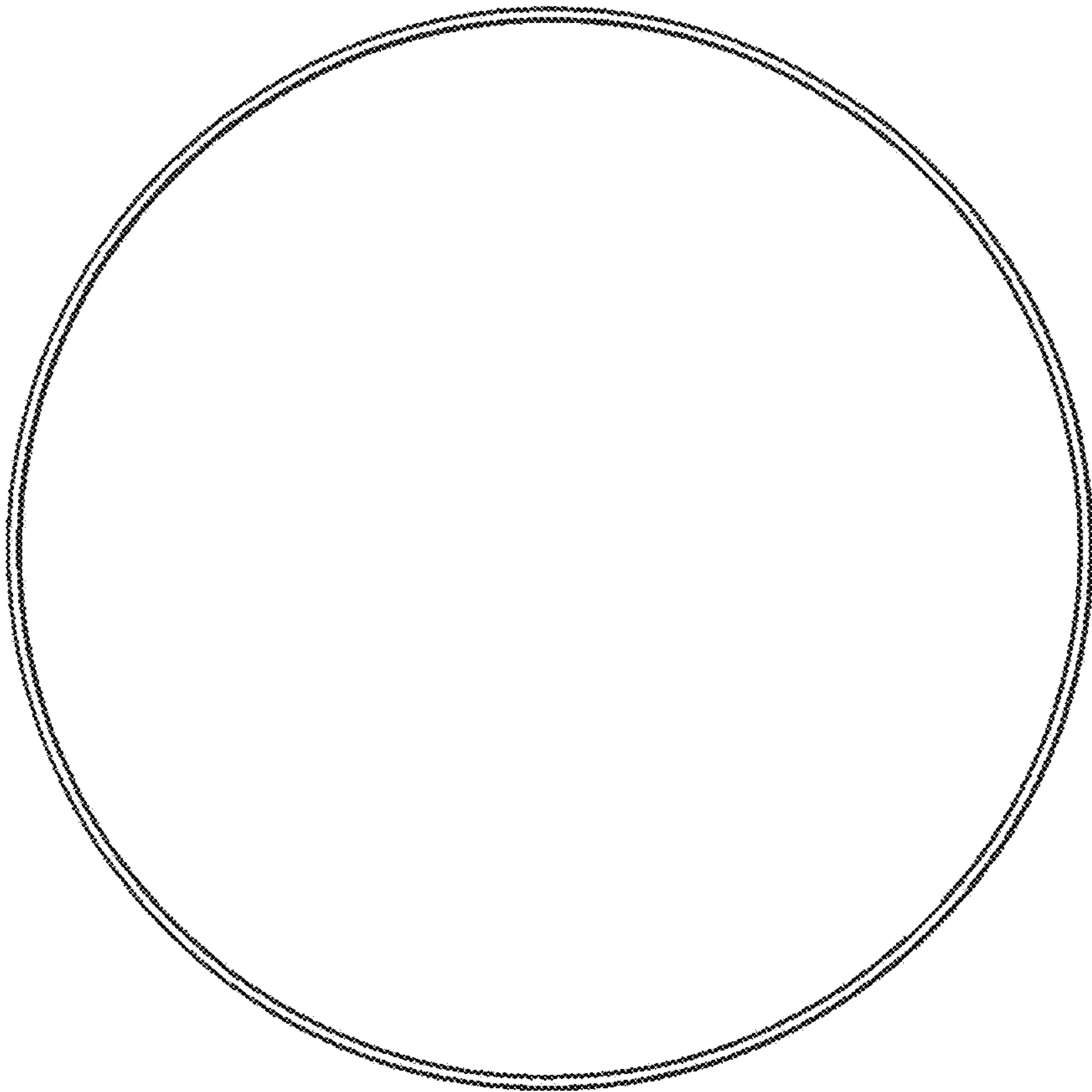


FIG.5

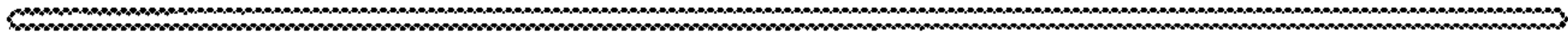


FIG.6

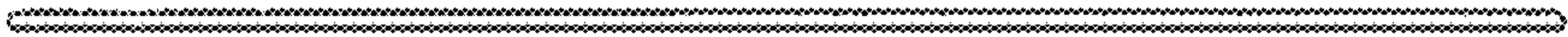


FIG.7

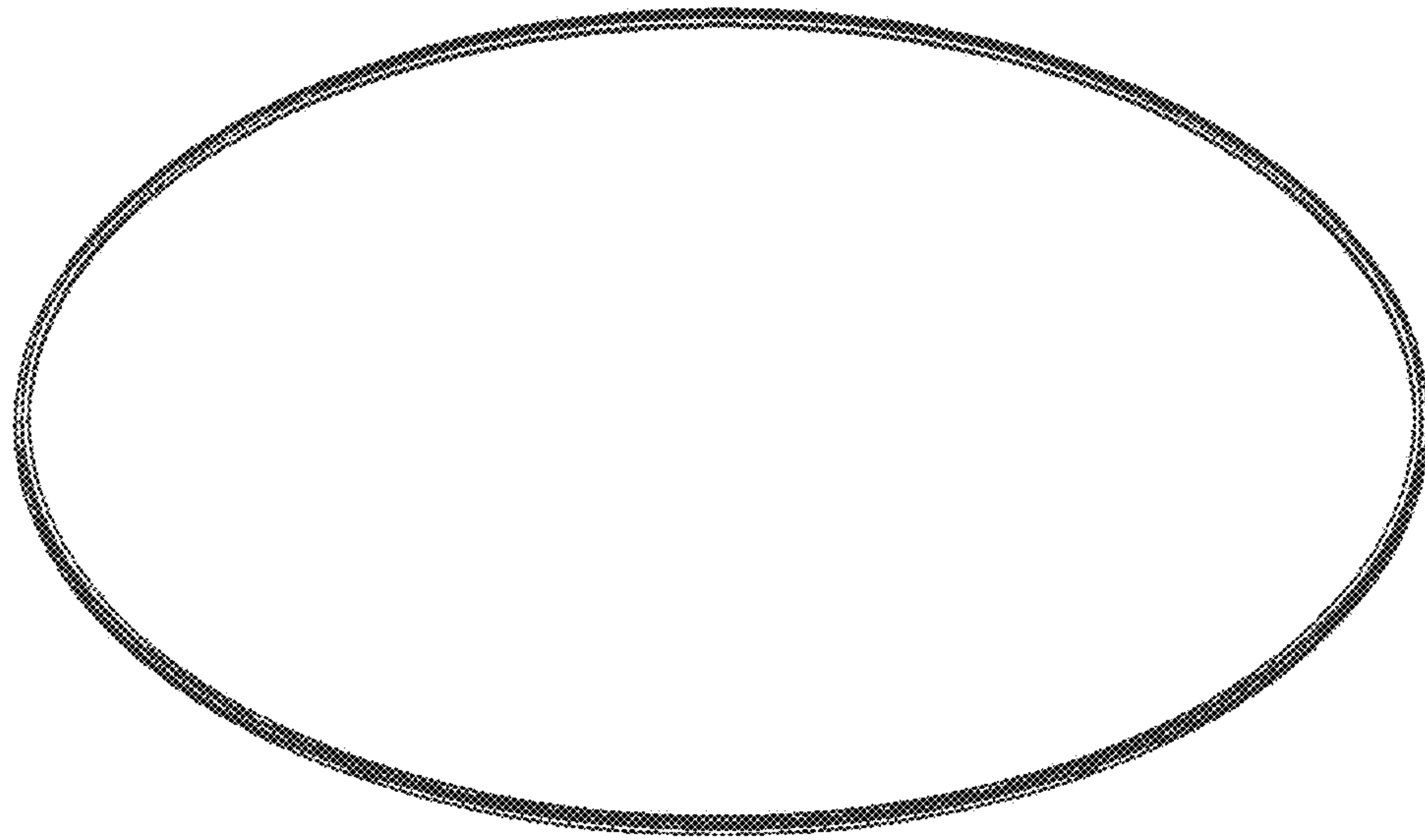


FIG.8

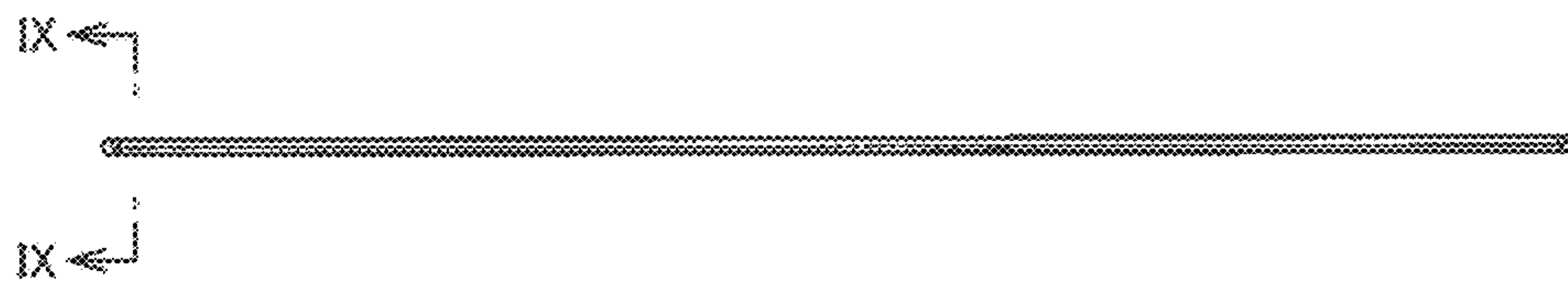


FIG.9

