



US00D745965S

(12) **United States Design Patent**
Anderson

(10) **Patent No.:** **US D745,965 S**
(45) **Date of Patent:** **** Dec. 22, 2015**

(54) **SURGICAL INSTRUMENT SHAFT WITH
HOLE PATTERN**

(71) Applicant: **INTUITIVE SURGICAL
OPERATIONS, INC.**, Sunnyvale, CA
(US)

(72) Inventor: **S. Christopher Anderson**, San
Francisco, CA (US)

(73) Assignee: **INTUITIVE SURGICAL
OPERATIONS, INC.**, Sunnyvale, CA
(US)

(**) Term: **14 Years**

(21) Appl. No.: **29/464,369**

(22) Filed: **Aug. 15, 2013**

(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/133**

(58) **Field of Classification Search**
USPC D19/199, 200, 203, 204; D24/133, 138,
D24/144, 147, 146; D8/98, 198; 606/1,
606/166–167

CPC A61B 1/00002; A61B 1/018; A61B 1/005;
A61B 1/0125; A61B 1/008; A61B 1/24;
A61B 1/00154; A61B 17/00; A61B 1/04

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,635,641 A * 1/1972 Turner 425/461
D242,828 S * 12/1976 Lahay D24/112
D305,295 S * 1/1990 Momany D8/70
D421,303 S * 2/2000 Cote et al. D24/133
D438,903 S * 3/2001 Rosenbaum D19/55
D442,282 S * 5/2001 Taylor et al. D24/143

D496,730 S * 9/2004 Morawski et al. D24/147
D504,513 S * 4/2005 Morawski et al. D24/147
6,969,373 B2 * 11/2005 Schwartz et al. 604/170.03
D618,725 S * 6/2010 Cetera D19/55
D682,938 S * 5/2013 Larson et al. D19/55
2005/0043682 A1 2/2005 Kucklick et al.
2012/0010628 A1 1/2012 Cooper et al.
2013/0123805 A1 5/2013 Park et al.

OTHER PUBLICATIONS

Design U.S. Appl. No. 29/464,362, filed Aug. 15, 2013.
Design U.S. Appl. No. 29/464,364, filed Aug. 15, 2013.
Design U.S. Appl. No. 29/464,366, filed Aug. 15, 2013.
Design U.S. Appl. No. 29/464,367, filed Aug. 15, 2013.
Design U.S. Appl. No. 29/464,370, filed Aug. 15, 2013.
U.S. Appl. No. 61/866,311, filed Aug. 15, 2013.

* cited by examiner

Primary Examiner — Wan Laymon
Assistant Examiner — Mark Booker

(57) **CLAIM**

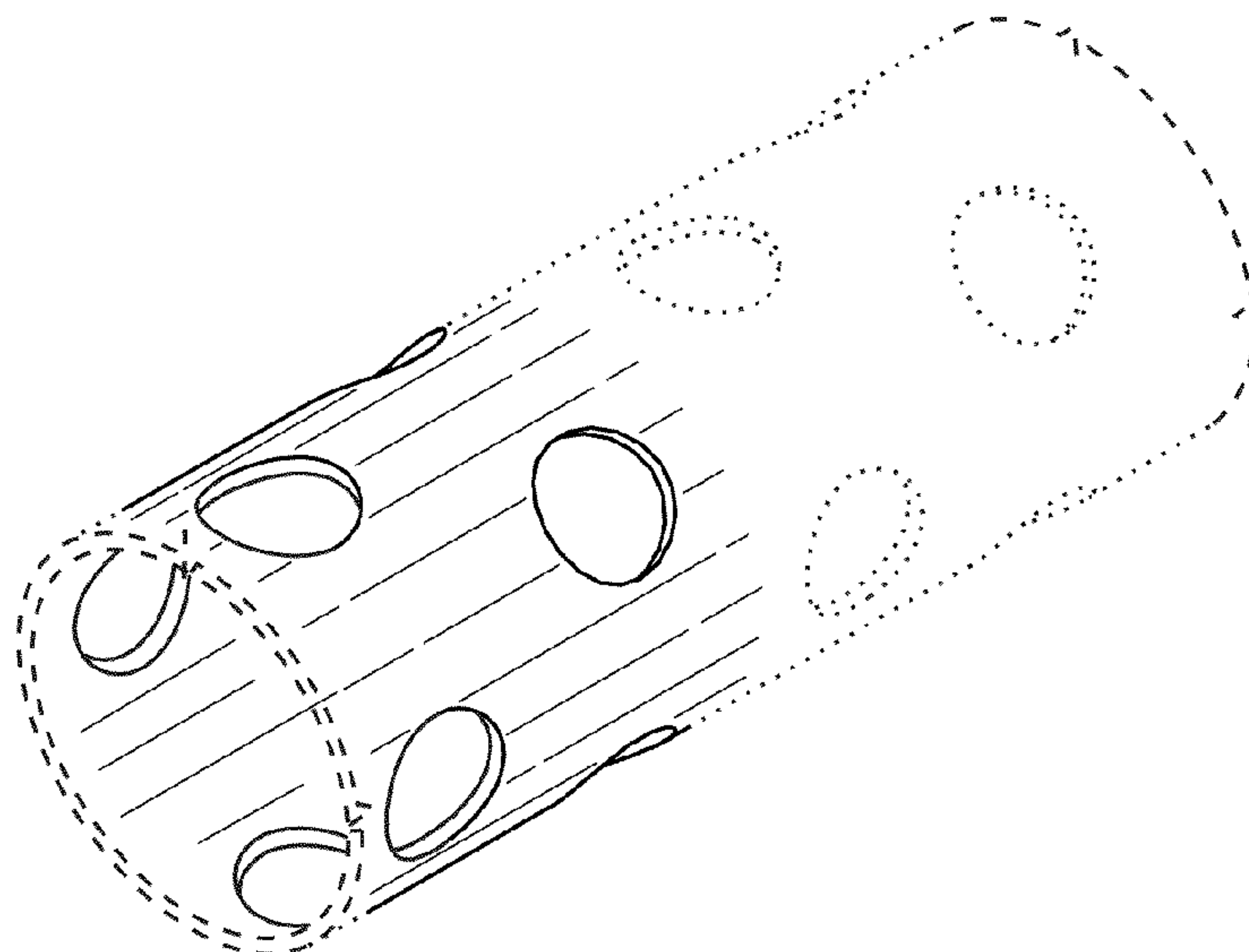
The ornamental design for a surgical instrument shaft with
hole pattern, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a surgical instrument shaft with
hole pattern showing my new design;
FIG. 2 is a top plan view thereof; and,
FIG. 3 is a first side view thereof.

The environmental structure depicted in broken lines of even
length and in dotted lines forms no part of the claimed design.
The surface shading lines also form no part of the claimed
design but are intended to depict curvature of the shaft that
includes the claimed hole pattern. Portions of the article
beyond the broken away symbols form no part of the claimed
design.

1 Claim, 1 Drawing Sheet



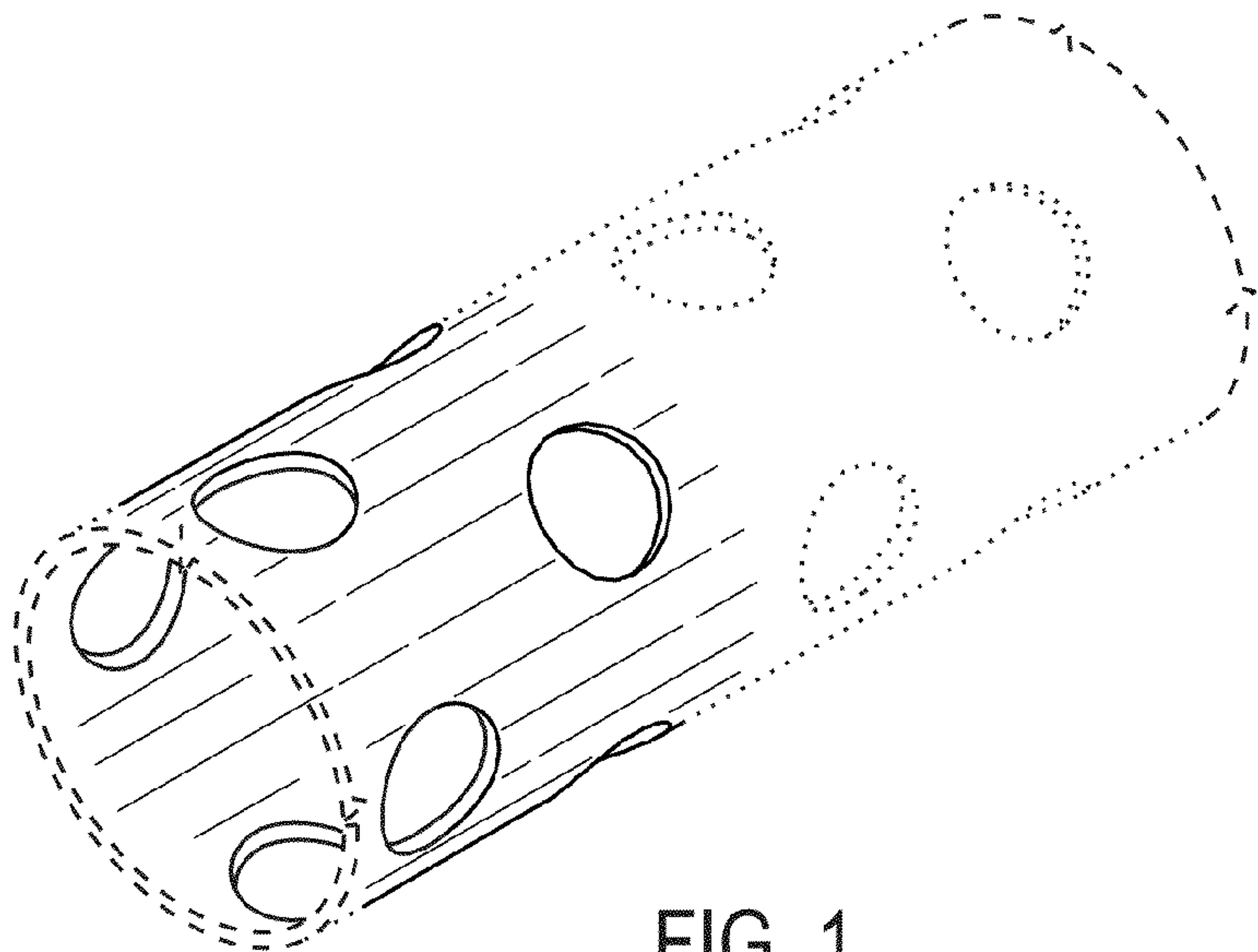


FIG. 1

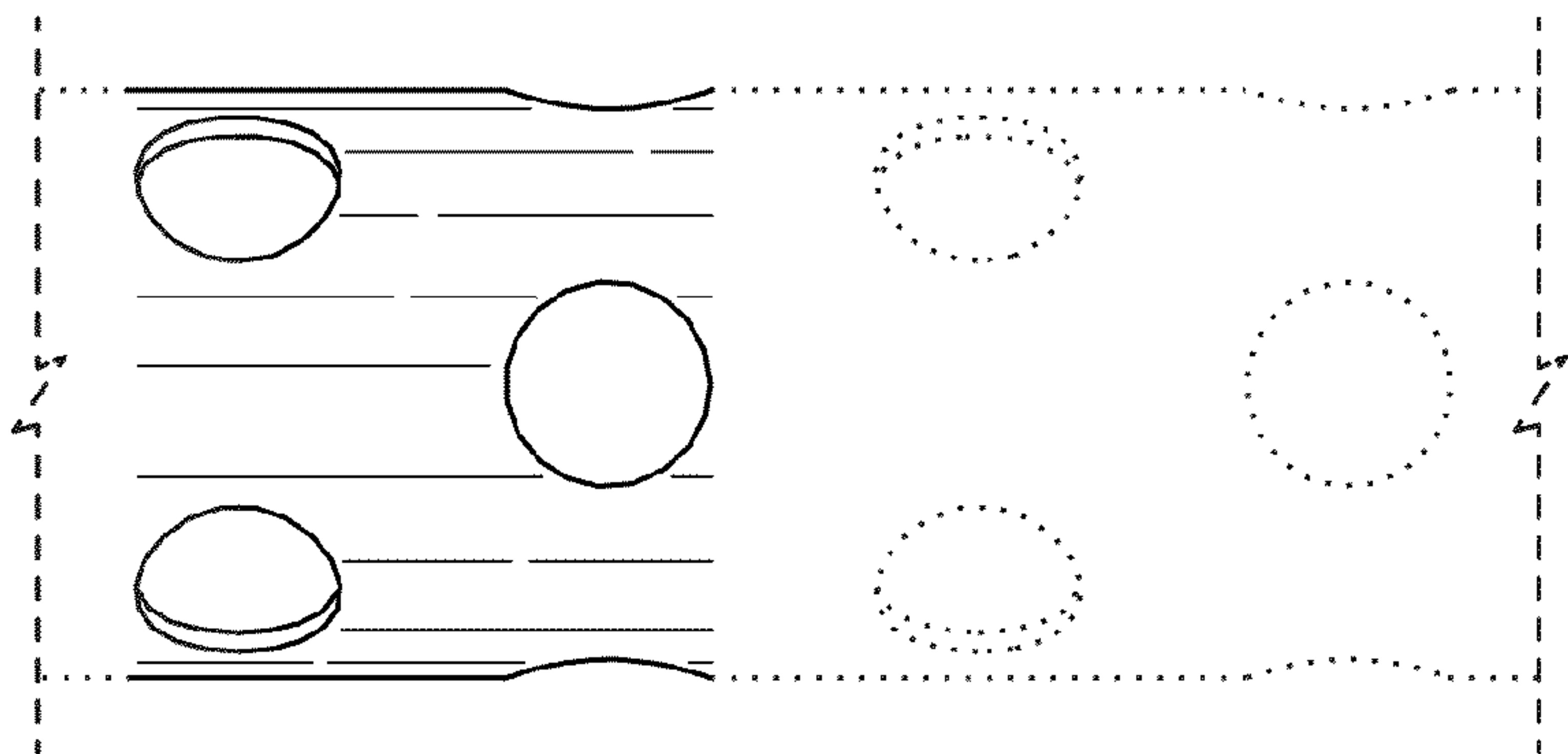


FIG. 2

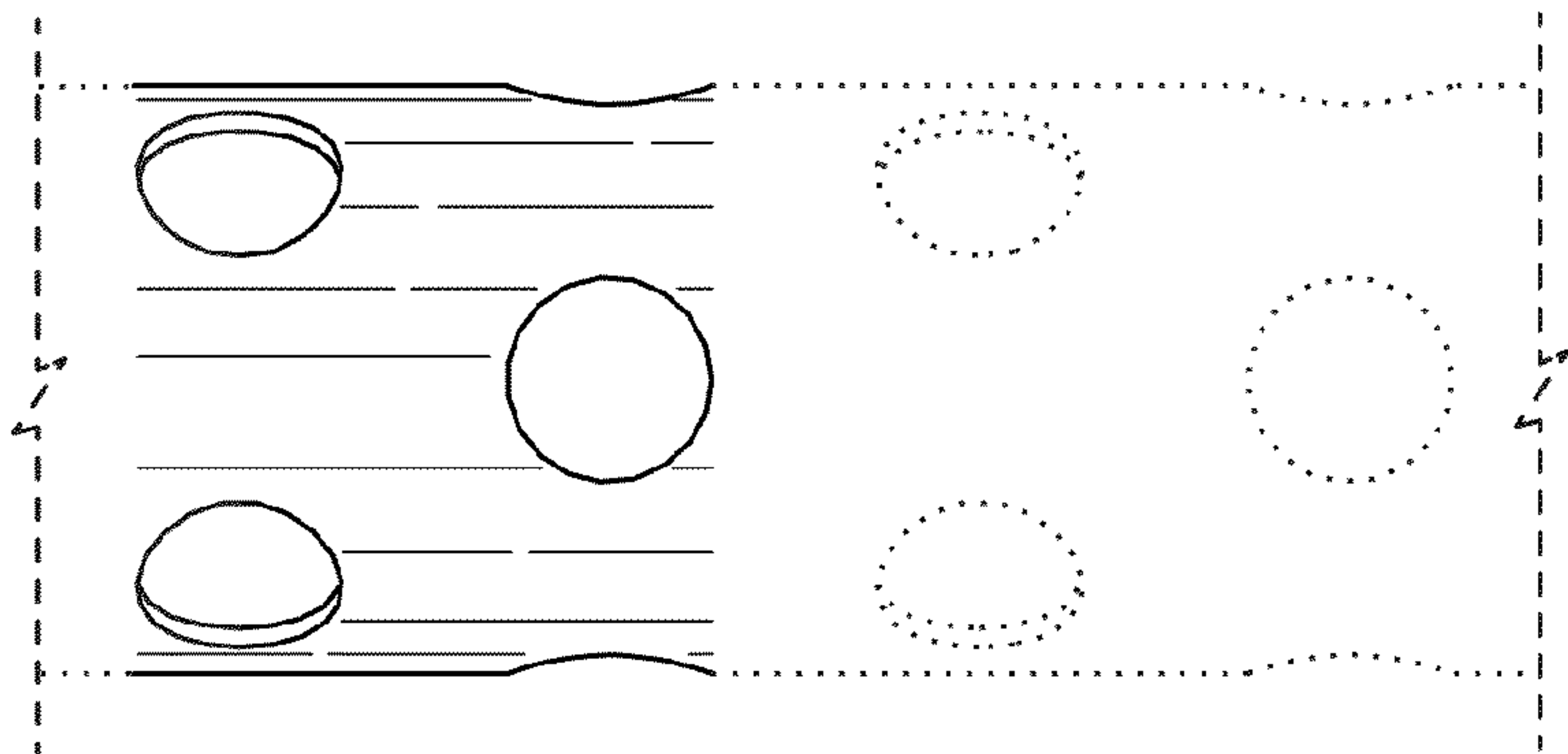


FIG. 3