



US00D652059S

(12) **United States Design Patent**
Sato et al.

(10) **Patent No.:** **US D652,059 S**
(45) **Date of Patent:** **** Jan. 10, 2012**

(54) **CYLINDER-TYPE INFLATOR FOR AIRBAG MODULE**

(75) Inventors: **Eishi Sato**, Himeji (JP); **Naoki Izaki**, Himeji (JP); **Satoshi Aoyagi**, Himeji (JP); **Daisuke Hagihara**, Himeji (JP); **Koichi Enami**, Himeji (JP); **Koichi Sasamoto**, Himeji (JP)

(73) Assignee: **Nippon Kayaku Kabushiki Kaisha**, Tokyo (JP)

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

(21) Appl. No.: **29/396,087**

(22) Filed: **Jun. 24, 2011**

Related U.S. Application Data

(62) Division of application No. 29/354,908, filed on Jan. 29, 2010, now Pat. No. Des. 643,442.

(30) **Foreign Application Priority Data**

Jul. 31, 2009 (JP) 2009-17660
Jul. 31, 2009 (JP) 2009-17661
Jul. 31, 2009 (JP) 2009-17662
Jul. 31, 2009 (JP) 2009-17663

(51) **LOC (9) Cl.** **15-02**

(52) **U.S. Cl.** **D15/9**

(58) **Field of Classification Search** D15/7-9;
D23/231, 232, 225; 417/410.1, 359, 415-416,
417/234, 321, 265, 405

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D304,970 S 12/1989 Gibb
D355,199 S 2/1995 Ousey
D461,827 S 8/2002 Koebbe
D471,563 S 3/2003 Selic et al.
D472,558 S 4/2003 MacPherson et al.
D506,210 S 6/2005 Selic et al.

D520,521 S 5/2006 Angeletta
D540,349 S 4/2007 Waki et al.
D583,389 S 12/2008 Bilger
D584,320 S 1/2009 Huang
D589,984 S 4/2009 Roesler
D634,755 S * 3/2011 Sanders et al. D15/7
D643,855 S * 8/2011 Taniguchi et al. D15/7
D643,856 S * 8/2011 Taniguchi et al. D15/7

FOREIGN PATENT DOCUMENTS

JP 3134281 7/2007
JP 2008-247301 10/2008

OTHER PUBLICATIONS

Office Action issued Oct. 4, 2010, in Japan Patent Application No. 2009-017660 (with English-language Translation).
Office Action issued Oct. 4, 2010, in Japan Patent Application No. 2009-017661 (with English-language Translation).

(Continued)

Primary Examiner — Ralf Seifert

(74) *Attorney, Agent, or Firm* — Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P.

(57) **CLAIM**

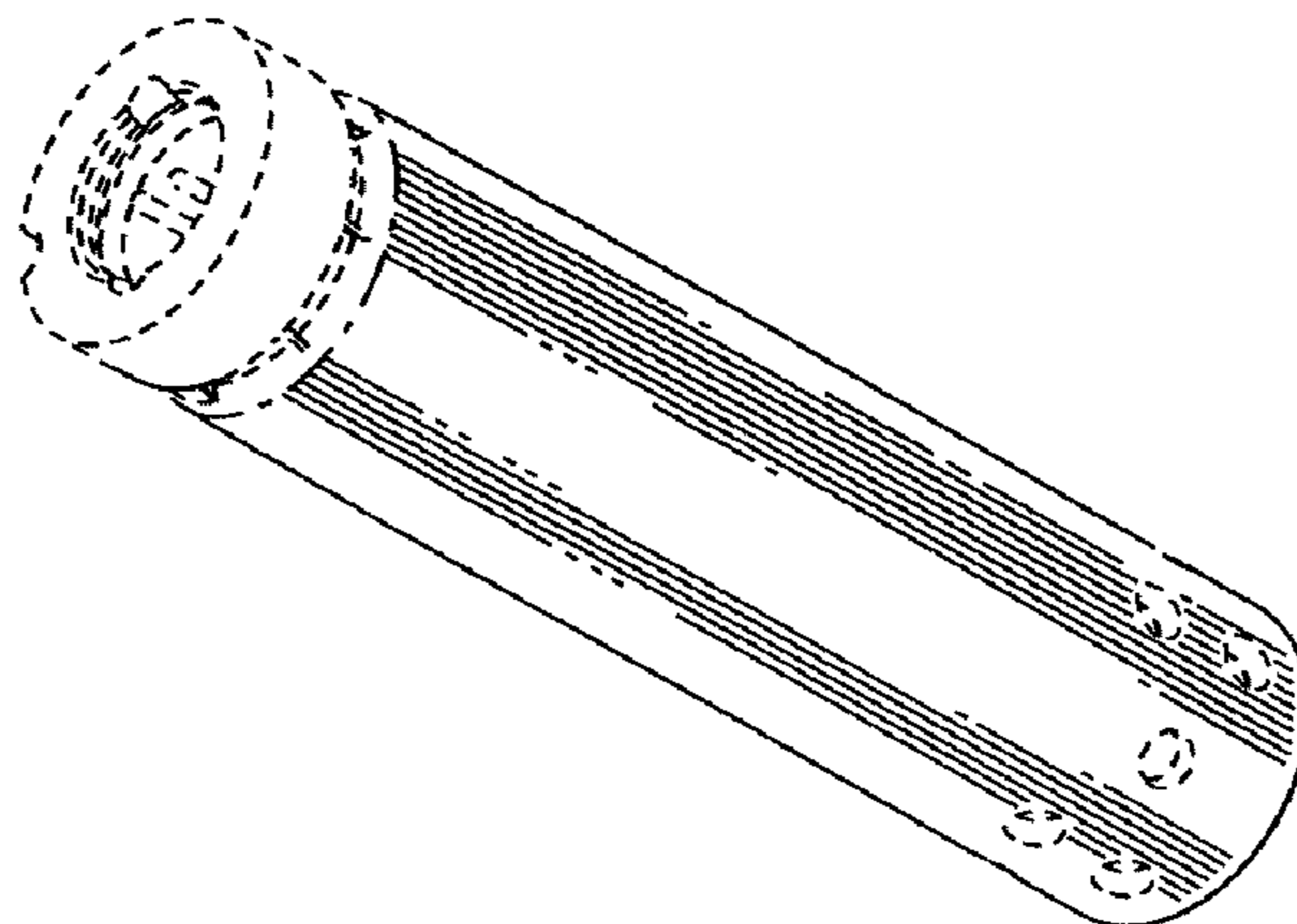
The ornamental design for a cylinder-type inflator for airbag module, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a cylinder-type inflator for airbag module;
FIG. 2 is a rear elevational view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a left side elevational view thereof;
FIG. 7 is a top, front, and left side perspective view thereof; and,
FIG. 8 is a bottom, rear, and right side perspective view thereof.

The broken lines in the drawings depict environmental subject matter only and form no part of the claimed design.

1 Claim, 2 Drawing Sheets



US D652,059 S

Page 2

OTHER PUBLICATIONS

Office Action issued Oct. 12, 2010, in Japan Patent Application No. 2009-017662 (with English-language Translation).

Office Action issued Oct. 12, 2010, in Japan Patent Application No. 2009-017663 (with English-language Translation).

* cited by examiner

FIG.1

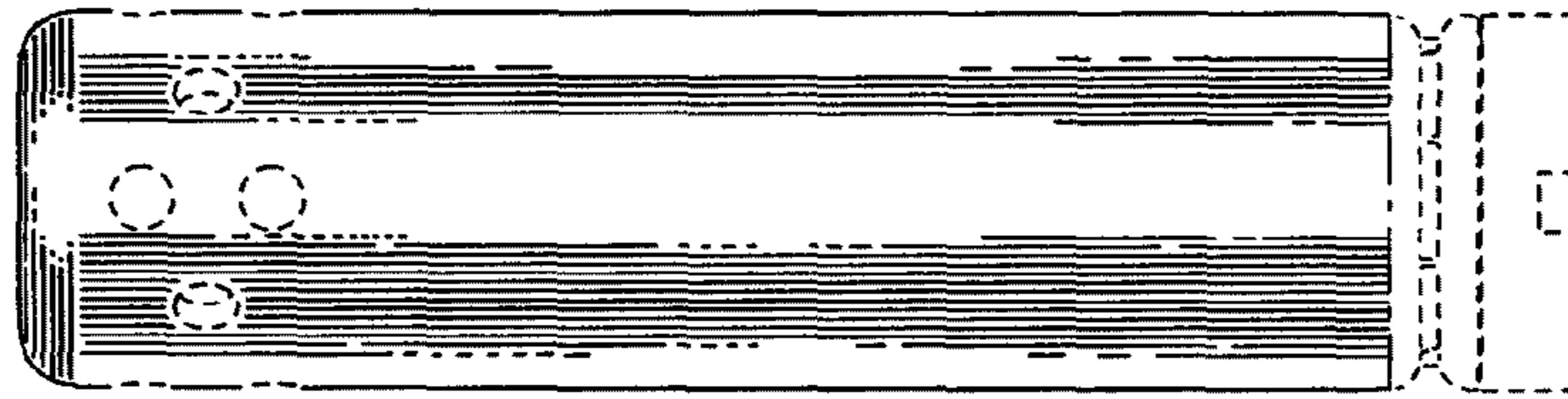


FIG.2

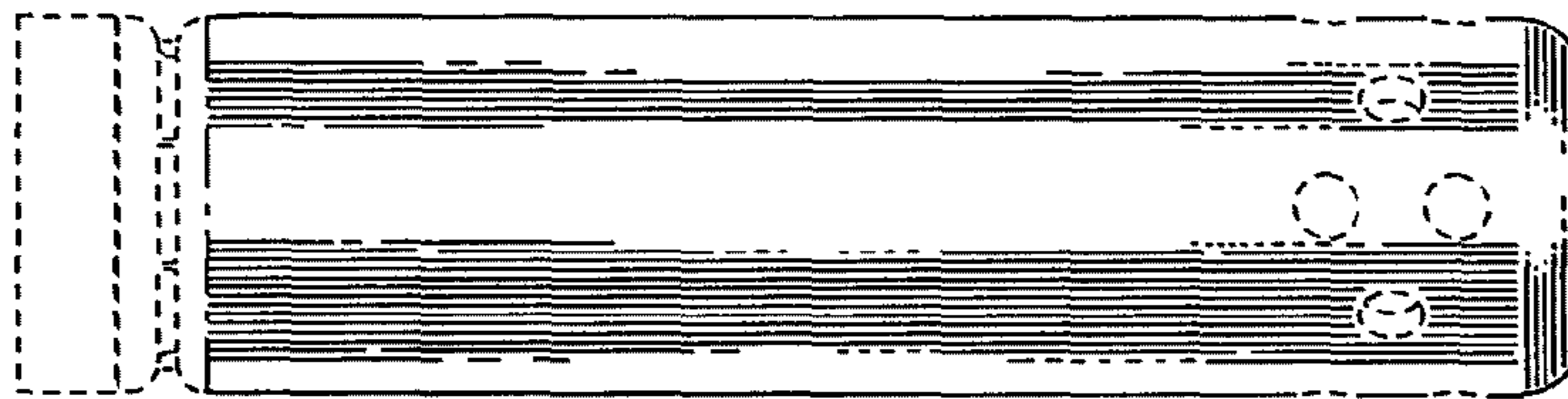


FIG.3

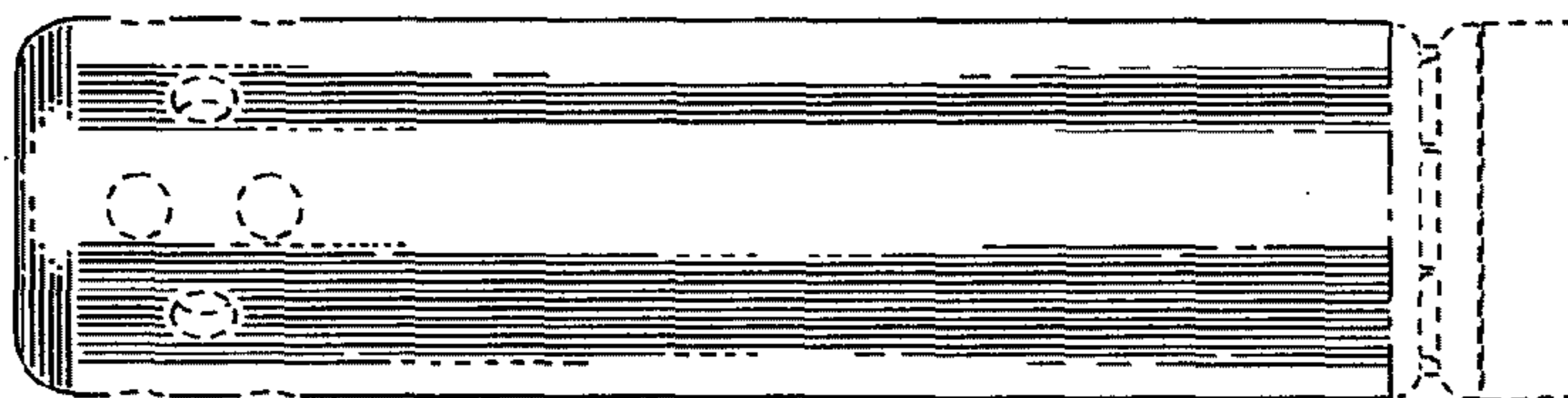


FIG.4

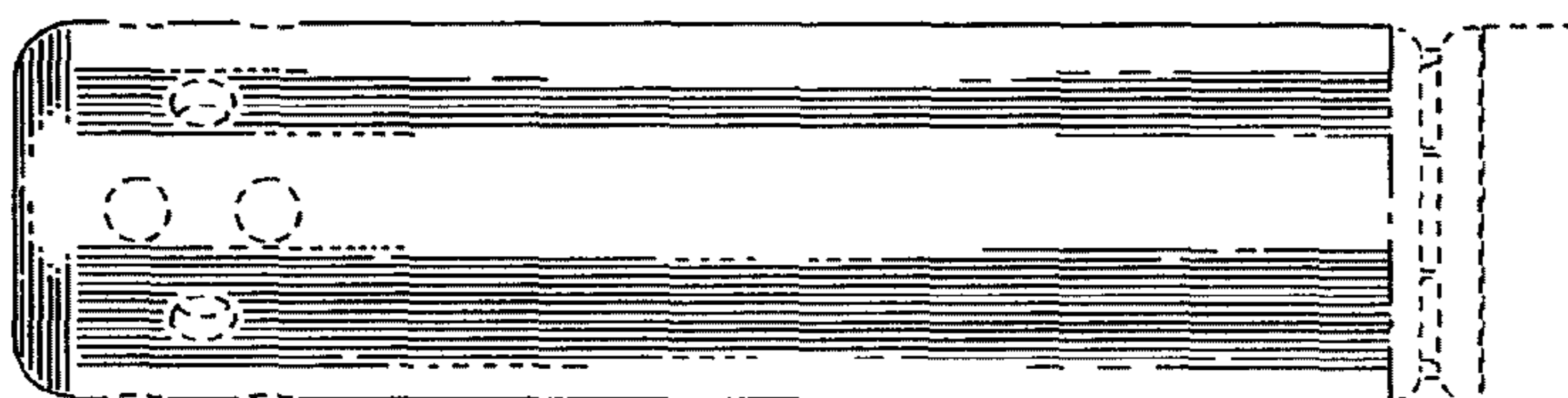


FIG.5

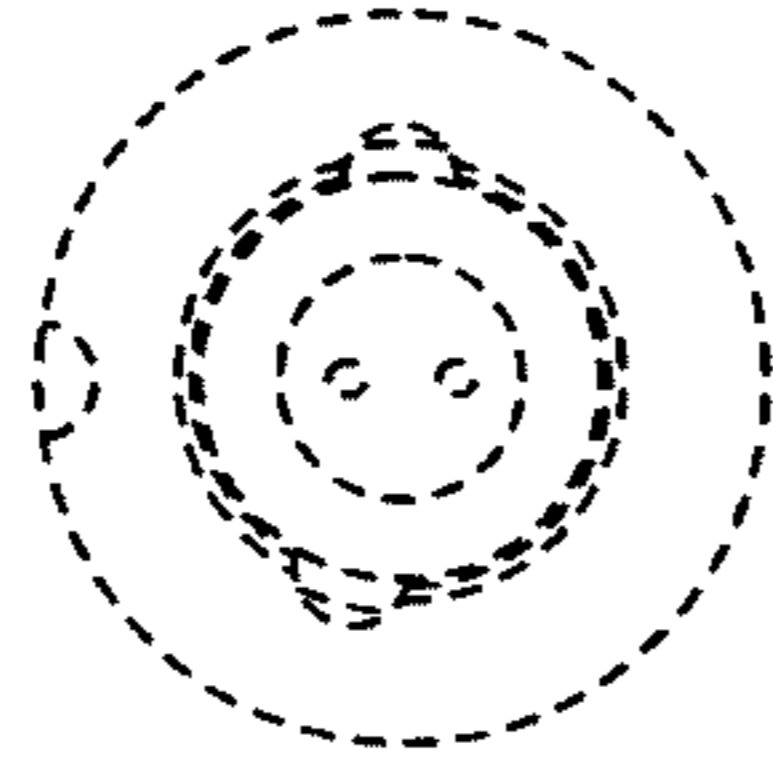


FIG.6

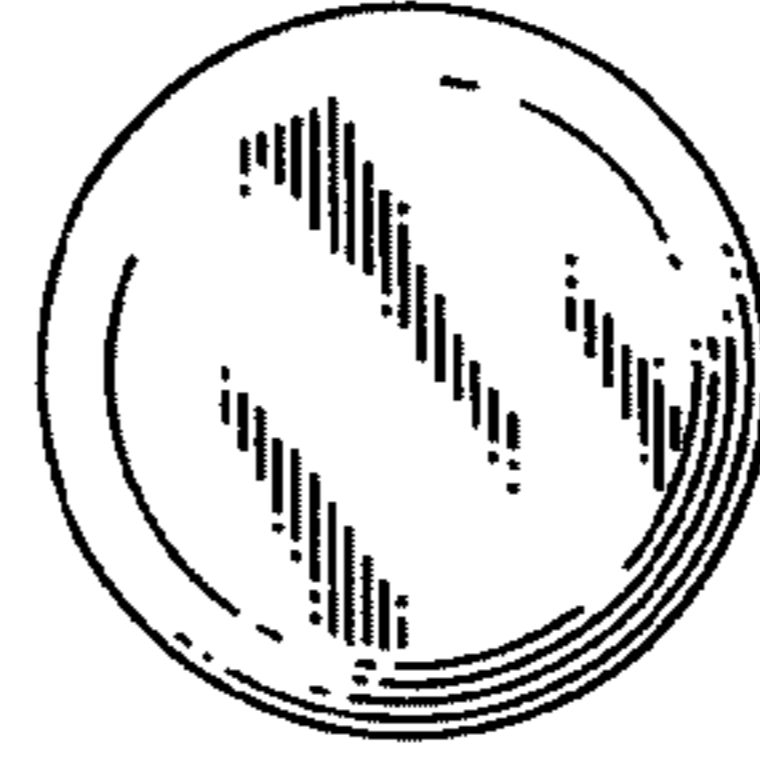


FIG.7

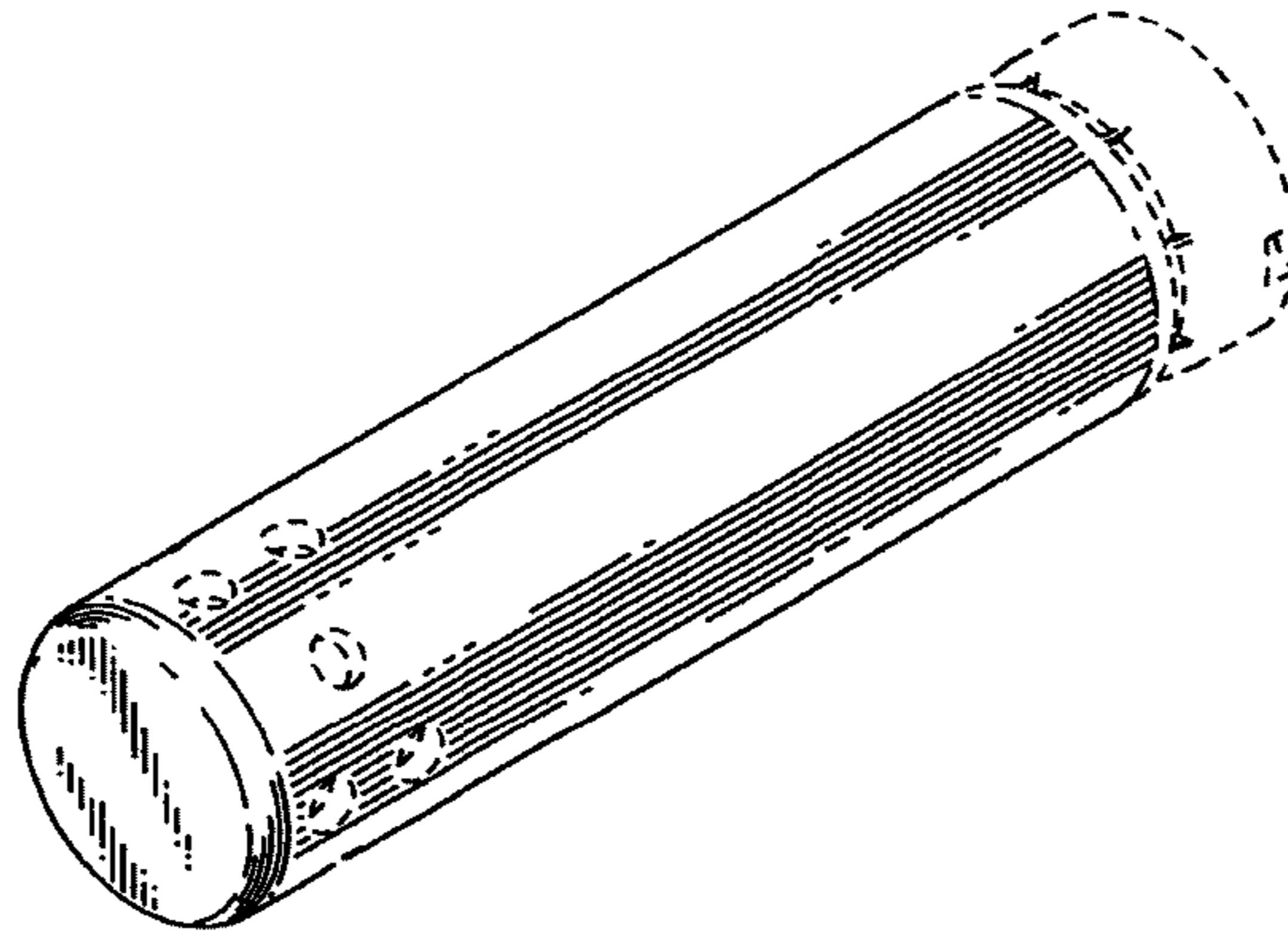


FIG.8

