



US00D610679S

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

(10) **Patent No.:** **US D610,679 S**

(45) **Date of Patent:** **** Feb. 23, 2010**

(54) **AUTOMATIC DENTAL DRUG SOLUTION
INJECTION DEVICE**

D495,413 S * 8/2004 Perry et al. D24/108
D583,932 S * 12/2008 Clement et al. D24/113
D594,983 S * 6/2009 Price et al. D24/145

(75) Inventors: **Naoki Nakagawa**, Osaka (JP); **Hidenori
Takahashi**, Osaka (JP); **Toshikazu
Hirayama**, Osaka (JP)

* cited by examiner

Primary Examiner—Lisa P Lichtenstein

(73) Assignee: **Nipro Corporation**, Osaka (JP)

(74) *Attorney, Agent, or Firm*—Birch, Stewart, Kolasch &
Birch, LLP

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

(57) **CLAIM**

(21) Appl. No.: **29/329,995**

The ornamental design for an automatic dental drug solution
injection device, as shown and described.

(22) Filed: **Dec. 24, 2008**

(30) **Foreign Application Priority Data**

DESCRIPTION

Jul. 3, 2008 (JP) 2008-017163

FIG. 1 is a front view of an automatic dental drug solution
injection device showing our new design;

(51) **LOC (9) Cl.** **24-02**

FIG. 2 is a top plan view thereof;

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

FIG. 3 is a bottom plan view thereof;

(58) **Field of Classification Search** D24/133,
D24/112, 108, 113, 114, 145; 604/19, 131,
604/27, 30, 37, 35, 902, 65, 207, 198

FIG. 4 is a right side view thereof;

See application file for complete search history.

FIG. 5 is a left side view thereof; and,

FIG. 6 is a perspective view thereof.

(56) **References Cited**

The broken line showing of portions of the automatic dental
drug solution injection device is included for the purpose of
illustrating environmental structure and forms no part of the
claimed design.

U.S. PATENT DOCUMENTS

D479,325 S * 9/2003 Tyce D24/114
D479,598 S * 9/2003 Tyce D24/114

1 Claim, 3 Drawing Sheets

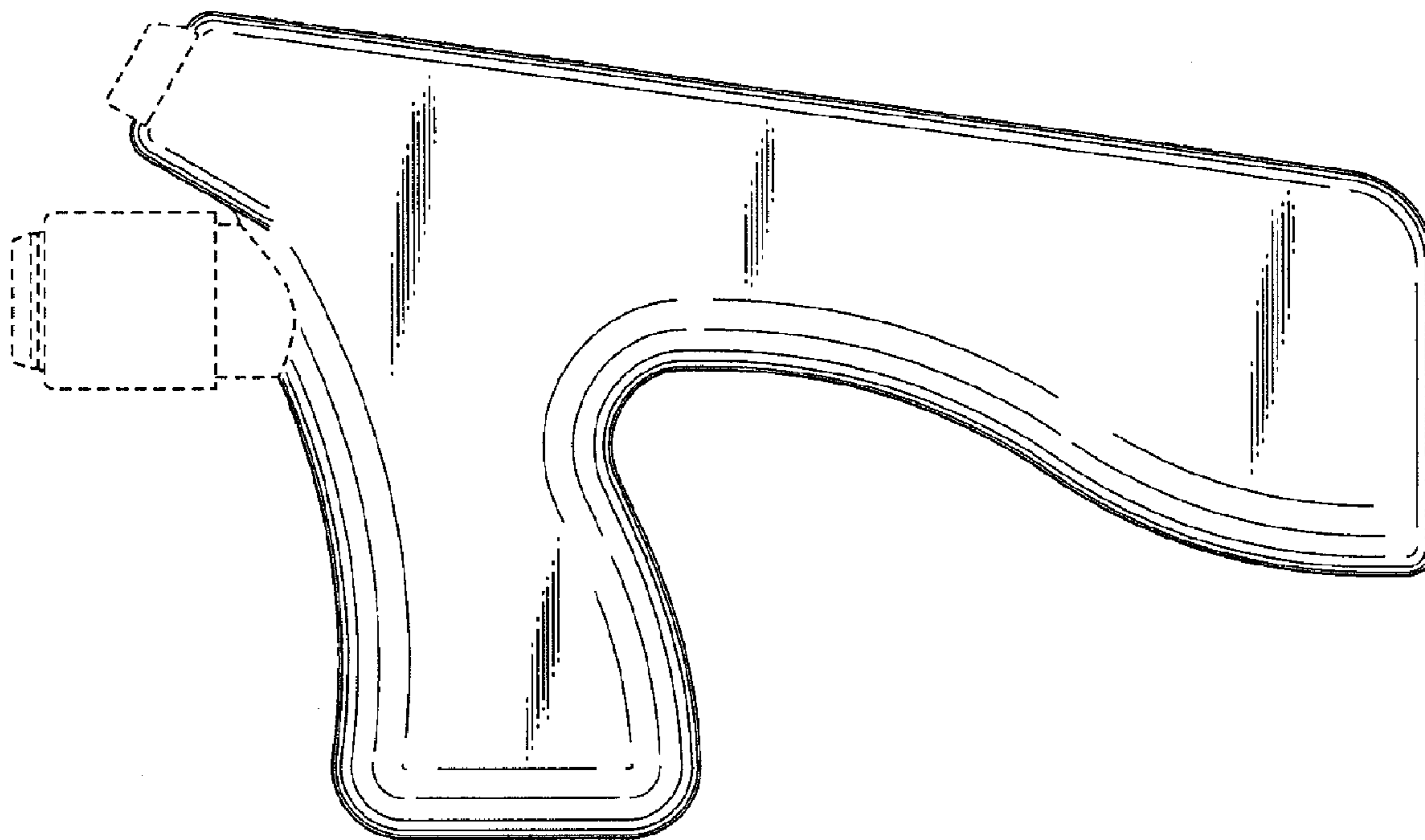


FIG.1

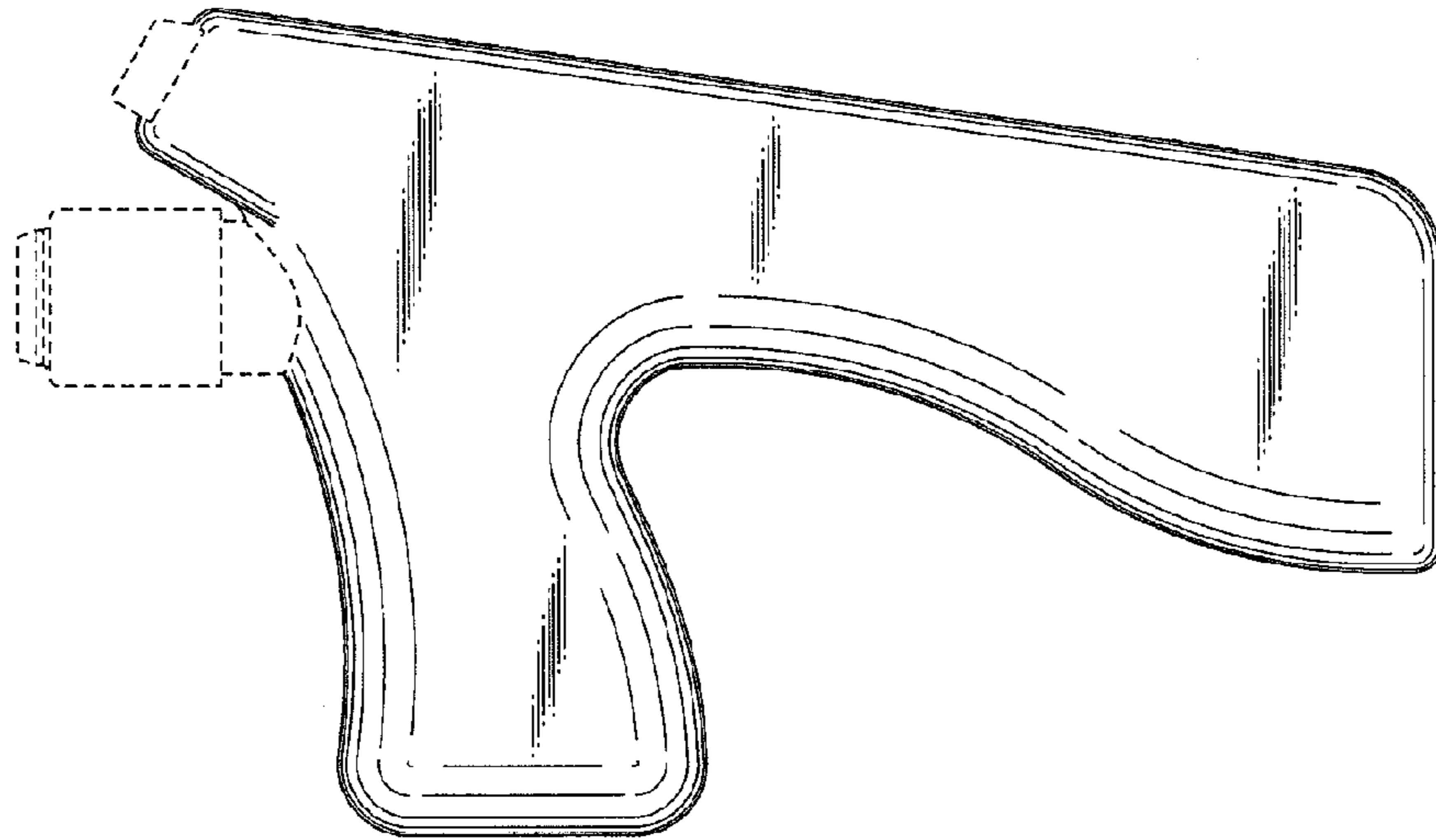


FIG.2

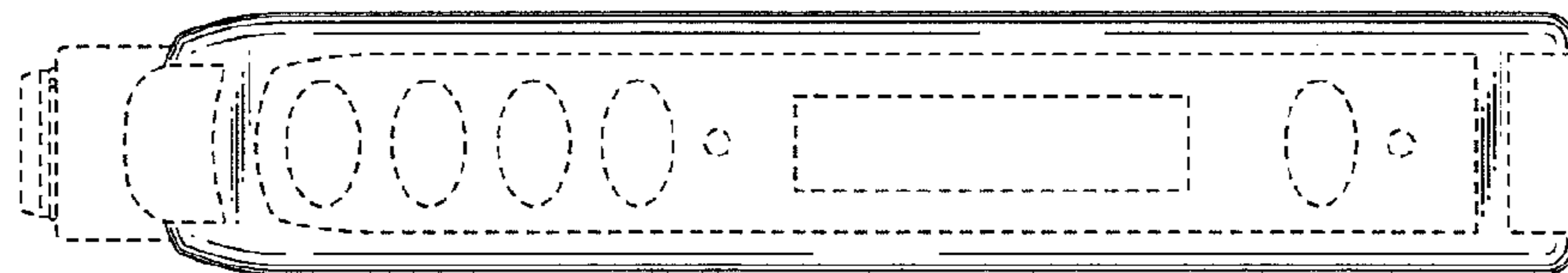


FIG.3

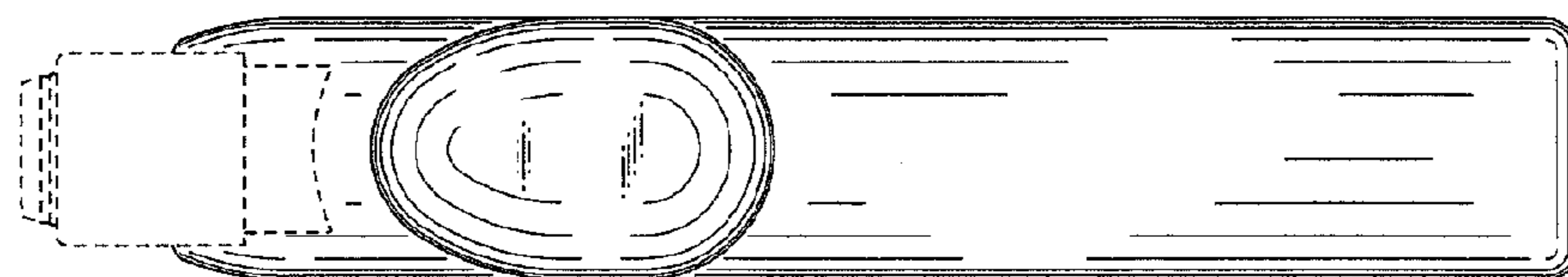


FIG.4

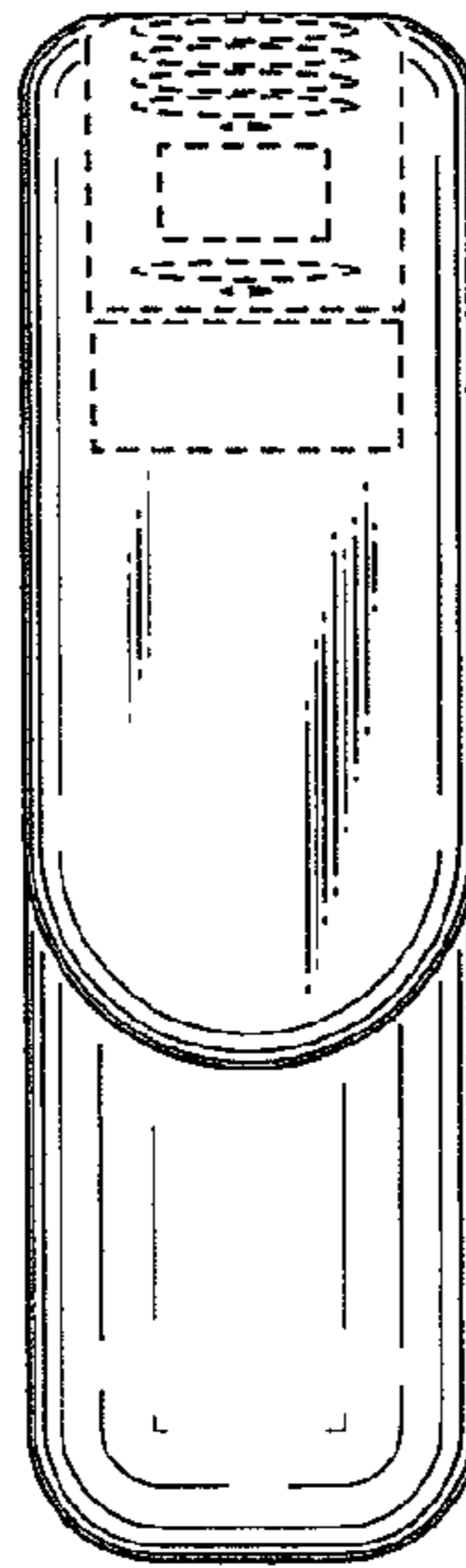


FIG.5

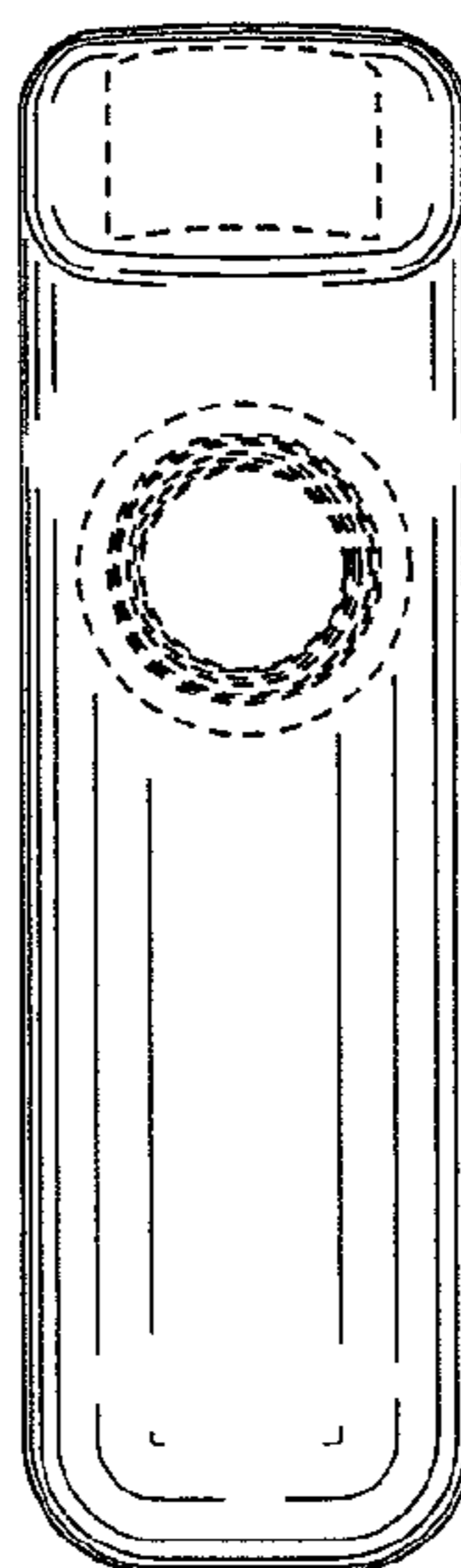


FIG.6

