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

(10) **Patent No.:** **US D770,537 S**

(45) **Date of Patent:** **** Nov. 1, 2016**

(54) **ROTATIONAL PUMP**
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Hidaka, Chiryu (JP); **Kiyoshi Nagata**,
Nagoya (JP); **Tetsuo Hayakawa**, Kariya
(JP)

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(73) Assignee: **DENSO CORPORATION**, Kariya (JP)

Ootake et al., U.S. Appl. No. 29/526,217, entitled "Rotational Pump", filed May 7, 2015.

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

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(21) Appl. No.: **29/526,222**

Primary Examiner — Ralf Seifert

(22) Filed: **May 7, 2015**

(74) *Attorney, Agent, or Firm* — Nixon & Vanderhye P.C.

(30) **Foreign Application Priority Data**

Nov. 19, 2014 (JP) 2014-25761
Nov. 19, 2014 (JP) 2014-25762
Nov. 19, 2014 (JP) 2014-25763

(57) **CLAIM**

The ornamental design for a rotational pump, as shown and described.

(51) **LOC (10) Cl.** **15-02**
(52) **U.S. Cl.**

DESCRIPTION

USPC **D15/7**

(58) **Field of Classification Search**
USPC D15/7-9, 5, 9.1; D23/231, 232, 225;
417/60, 235, 265, 321, 355, 358, 363,
417/359, 410.1, 415-416, 405, 900;
60/408, 412; 184/26-37; 415/140-147;
123/495, 509; 137/565.34
CPC F02M 37/04; F02M 37/14
See application file for complete search history.

FIG. 1 is a first perspective view of a rotational pump of a first new design;
FIG. 2 is a second perspective view of the rotational pump shown in FIG. 1;
FIG. 3 is a front view of the rotational pump shown in FIG. 1;
FIG. 4 is a back view of the rotational pump shown in FIG. 1;
FIG. 5 is a left side view of the rotational pump shown in FIG. 1;
FIG. 6 is a right side view of the rotational pump shown in FIG. 1;
FIG. 7 is a top view of the rotational pump shown in FIG. 1;
FIG. 8 is a bottom view of the rotational pump shown in FIG. 1;
FIG. 9 is a first perspective view of a rotational pump of a second new design similar to the first new design;
FIG. 10 is a second perspective view of the rotational pump shown in FIG. 9;

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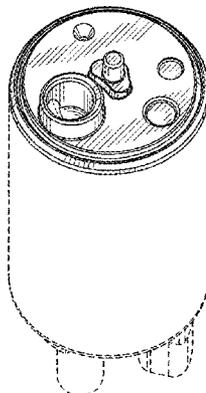


FIG. 11 is a front view of the rotational pump shown in FIG. 9;

FIG. 12 is a back view of the rotational pump shown in FIG. 9;

FIG. 13 is a left side view of the rotational pump shown in FIG. 9;

FIG. 14 is a right side view of the rotational pump shown in FIG. 9;

FIG. 15 is a top view of the rotational pump shown in FIG. 9;

FIG. 16 is a bottom view of the rotational pump shown in FIG. 9;

FIG. 17 is a first perspective view of a rotational pump of a third new design similar to the first and second new designs;

FIG. 18 is a second perspective view of the rotational pump shown in FIG. 17;

FIG. 19 is a front view of the rotational pump shown in FIG. 17;

FIG. 20 is a back view of the rotational pump shown in FIG. 17;

FIG. 21 is a left side view of the rotational pump shown in FIG. 17;

FIG. 22 is a right side view of the rotational pump shown in FIG. 17;

FIG. 23 is a top view of the rotational pump shown in FIG. 17; and,

FIG. 24 is a bottom view of the rotational pump shown in FIG. 17.

The article of the present designs relate to a rotational pump for supplying fuel to an internal combustion engine or the like.

The broken lines shown in the drawings form no part of claimed design.

1 Claim, 17 Drawing Sheets

FIG. 1

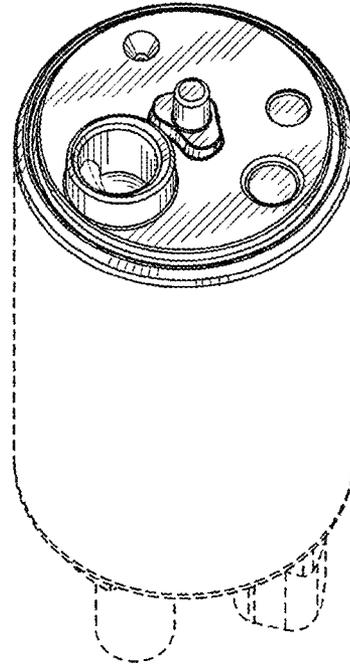


FIG. 2

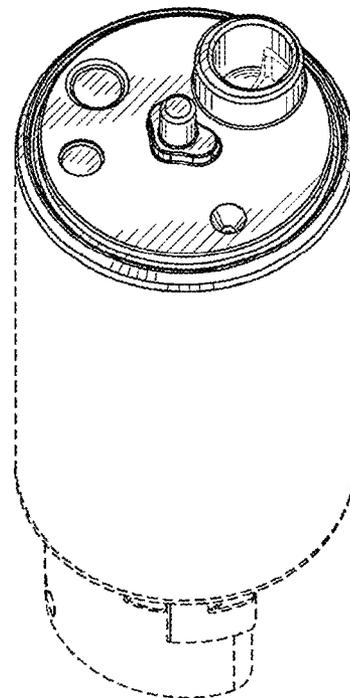


FIG. 3

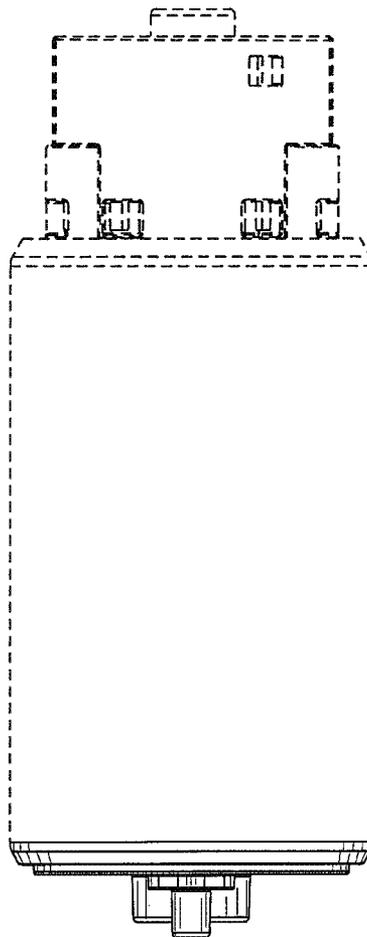


FIG. 4

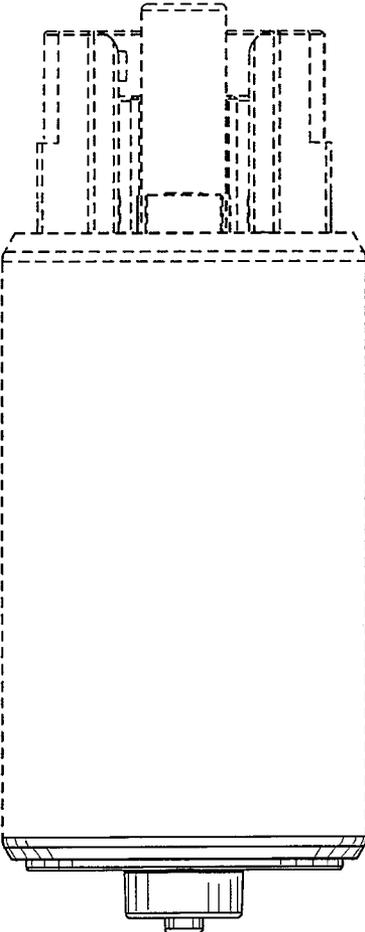


FIG. 5

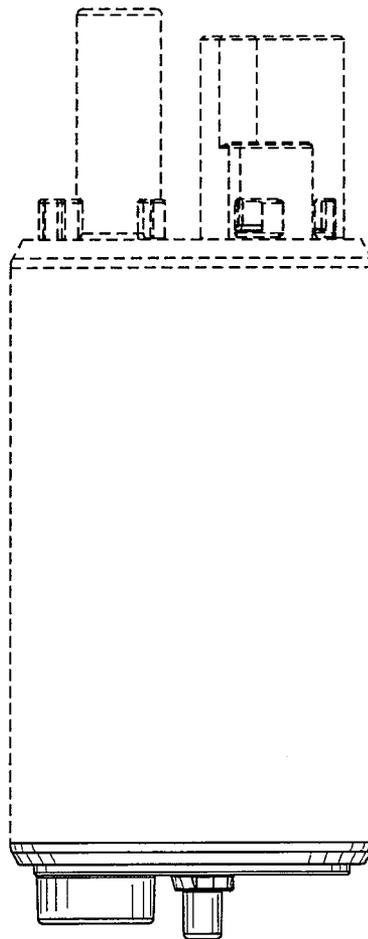


FIG. 6

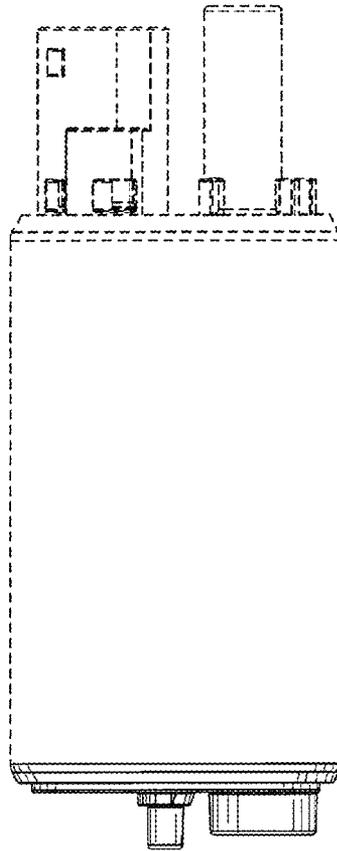


FIG. 7

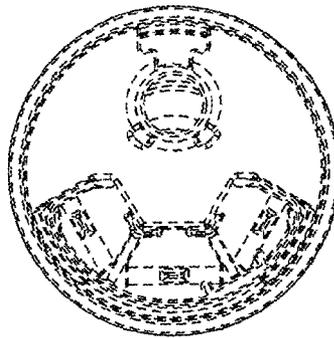


FIG. 8

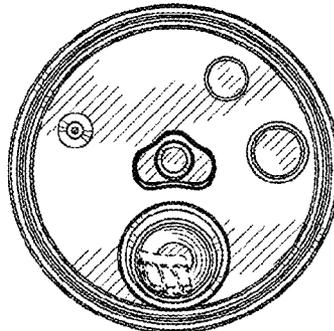


FIG. 9

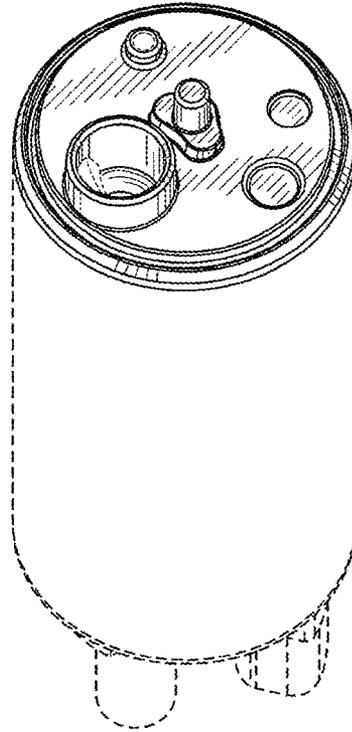


FIG. 10

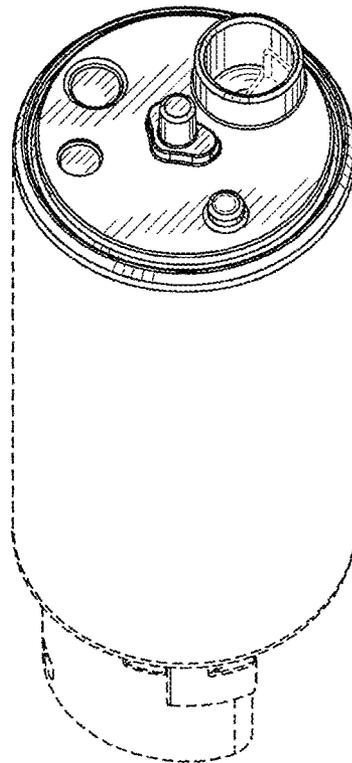


FIG. 11

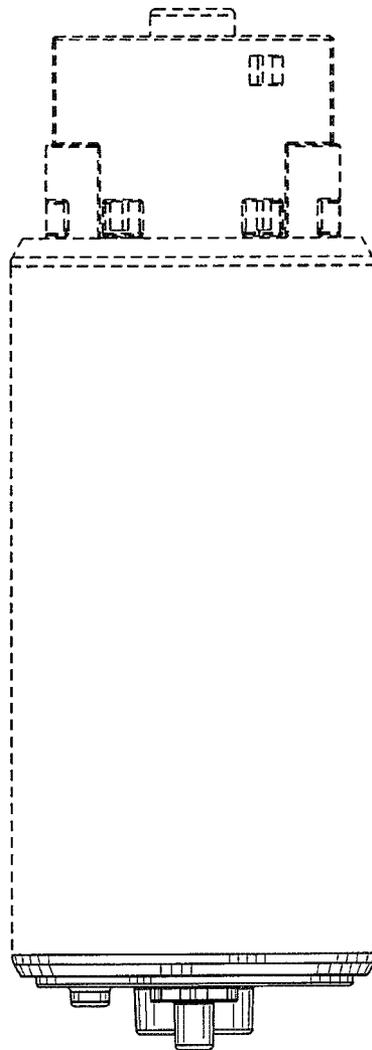


FIG. 12

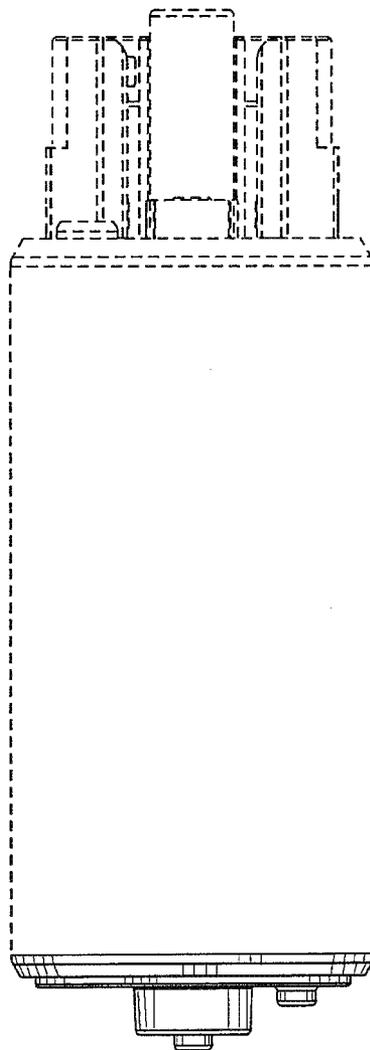


FIG. 13

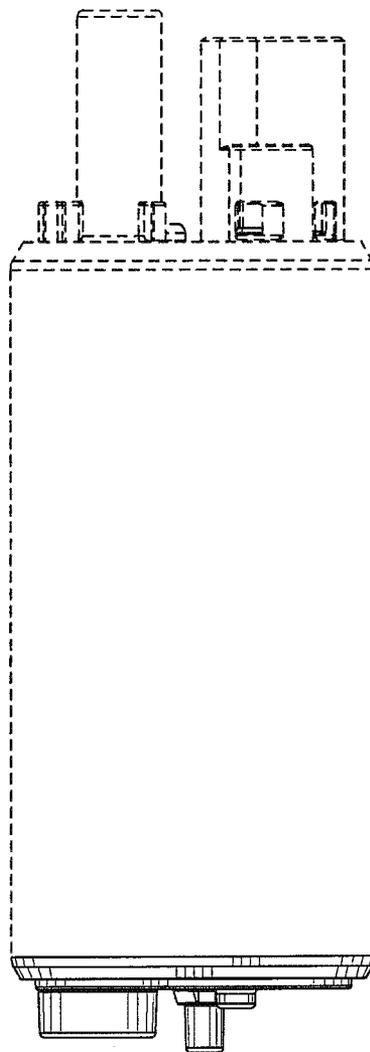


FIG. 14

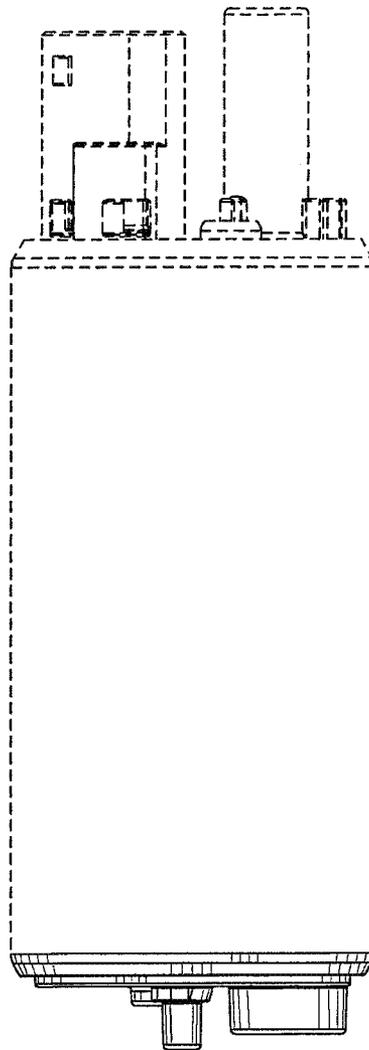


FIG. 15

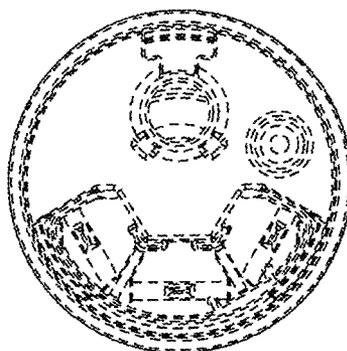


FIG. 16

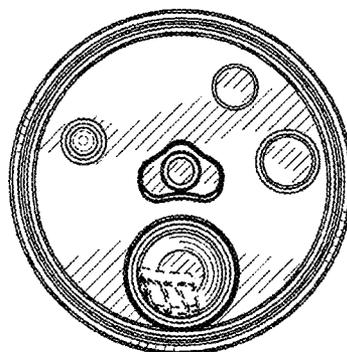


FIG. 17

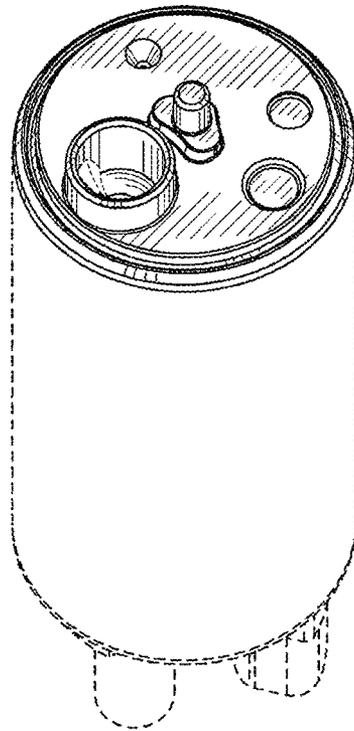


FIG. 18

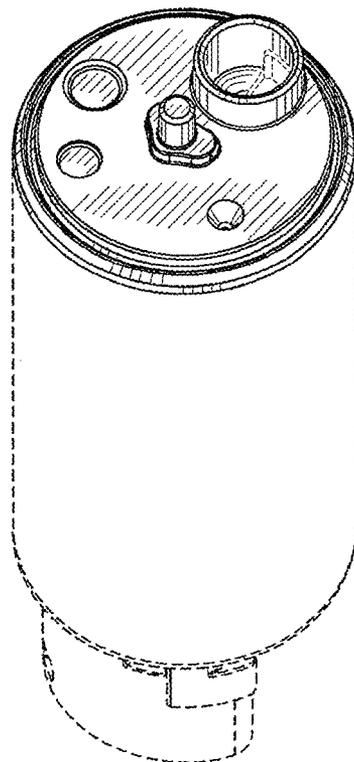


FIG. 19

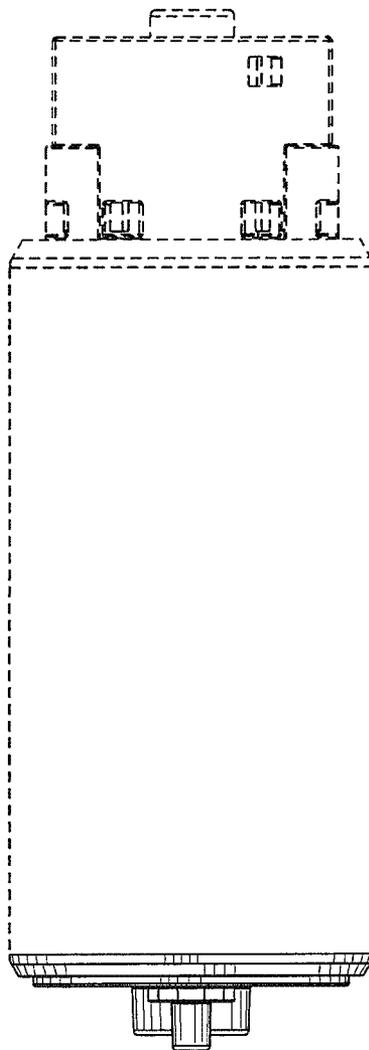


FIG. 20

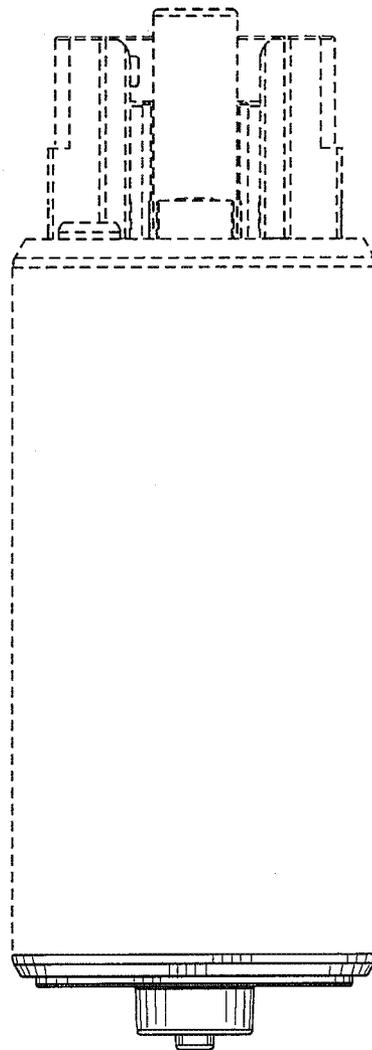


FIG. 21

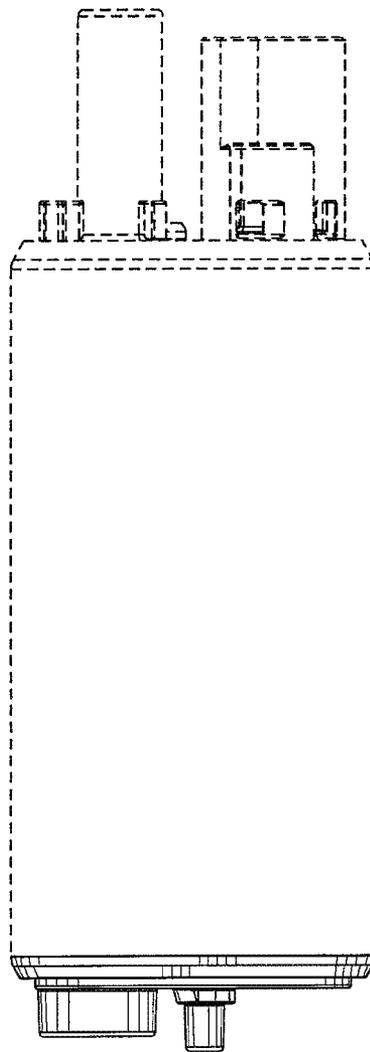


FIG. 22

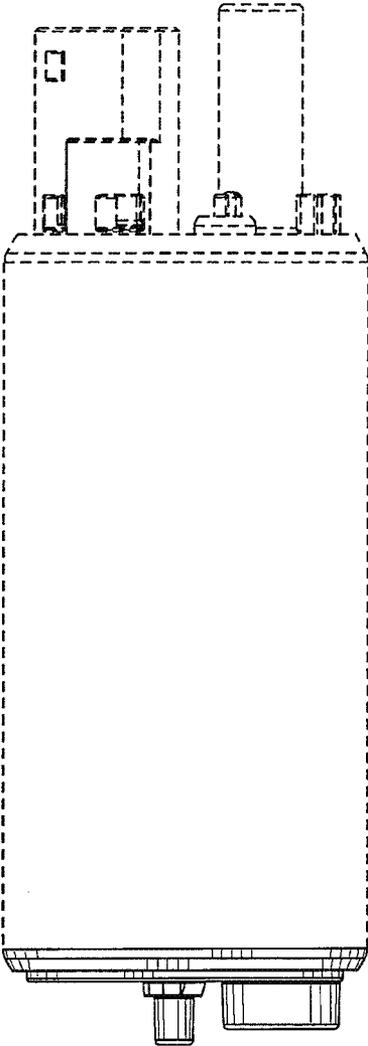


FIG. 23

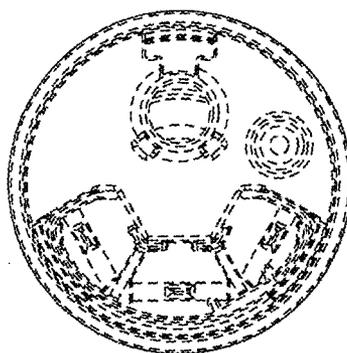


FIG. 24

