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# (12) United States Design Patent

Koyama et al.

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(54) **ROTATION PUMP**

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(73) Assignee: **Denso Corporation**, Kariya (JP)

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

(21) Appl. No.: **29/371,911**

(22) Filed: **Jan. 18, 2012**

**Related U.S. Application Data**

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(30) **Foreign Application Priority Data**

Sep. 8, 2010 (JP) ..... 2010-21702
Sep. 8, 2010 (JP) ..... 2010-21703
Sep. 8, 2010 (JP) ..... 2010-21704

(51) **LOC (9) Cl.** ..... **15-02**
(52) **U.S. Cl.** ..... **D15/7**
(58) **Field of Classification Search** ..... D15/7–9; D23/231, 232; 417/410.1, 359, 415–416, 417/234, 321, 265, 405, 313
See application file for complete search history.

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(57) **CLAIM**

The design for a rotation pump, as shown and described.

**DESCRIPTION**

FIG. **1** is a front perspective view of a rotation pump of a new design;
FIG. **2** is a rear perspective view of the rotation pump shown in FIG. **1**.
FIG. **3** is a front view of the rotation pump shown in FIG. **1**;
FIG. **4** is a back view of the rotation pump shown in FIG. **1**;
FIG. **5** is a left side view of the rotation pump shown in FIG. **1**;
FIG. **6** is a right side view of the rotation pump shown in FIG. **1**;
FIG. **7** is a top view of the rotation pump shown in FIG. **1**; and,
FIG. **8** is a bottom view of the rotation pump shown in FIG. **1**.
The broken lines in FIGS. **7** and **8** are included for the purpose of illustrating portions of the rotation pump that form no part of the claimed design.
The article of the present design relates to a rotation pump for supplying fuel to an internal combustion engine or the like. The rotation pump includes a motor, and an impeller driven and rotated by the motor, and a cylindrical body that houses therein the motor and the impeller. A connector and a cylindrical discharge tube are formed at one end of the body, and a cylindrical intake tube is formed at the other end of the body. When electrical power is supplied to the rotation pump via the connector, the motor is activated so that fuel is drawn from the intake tube and is discharged from the discharge tube.

**1 Claim, 4 Drawing Sheets**

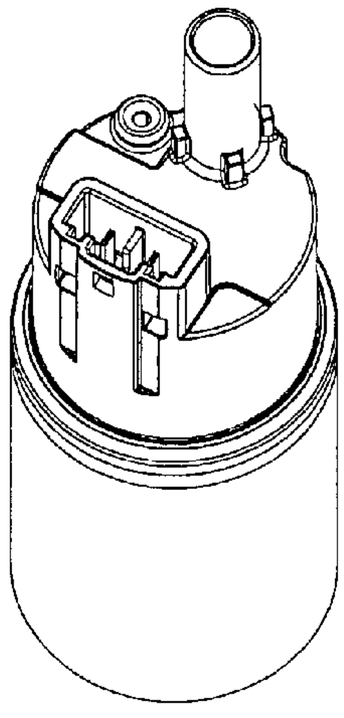

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FIG. 1

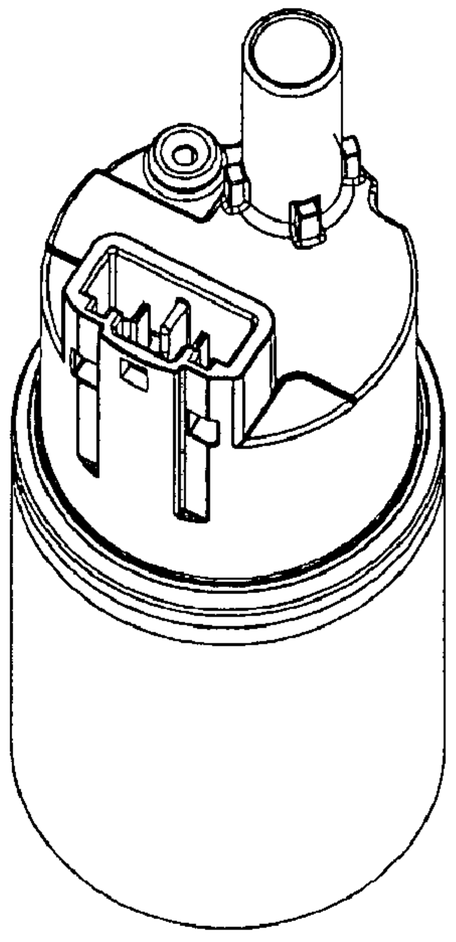

FIG. 2

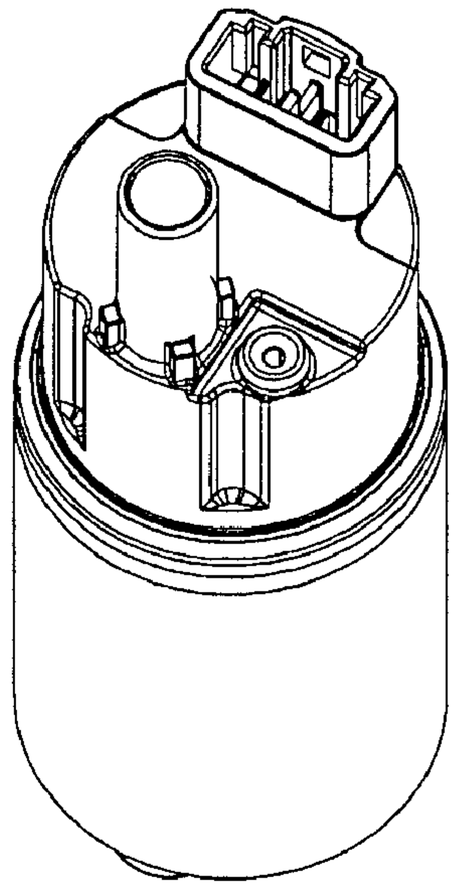

FIG. 3

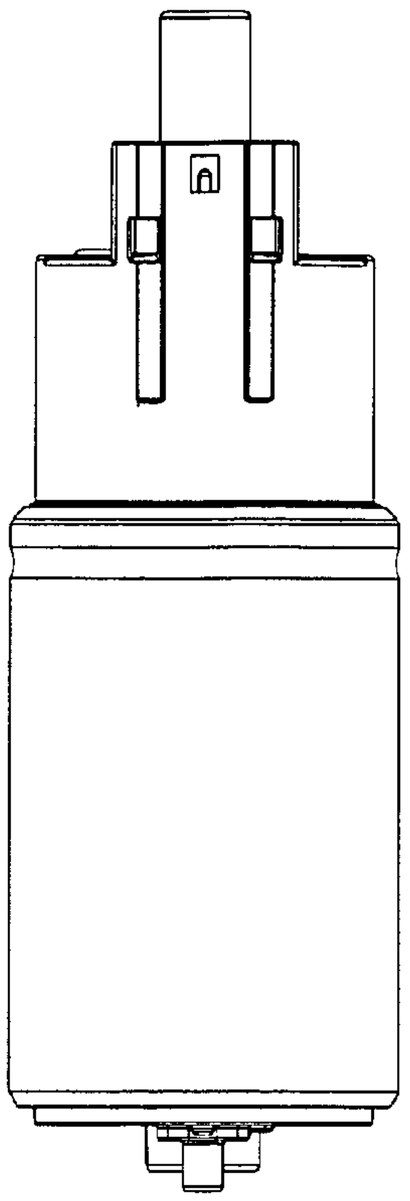

FIG. 4

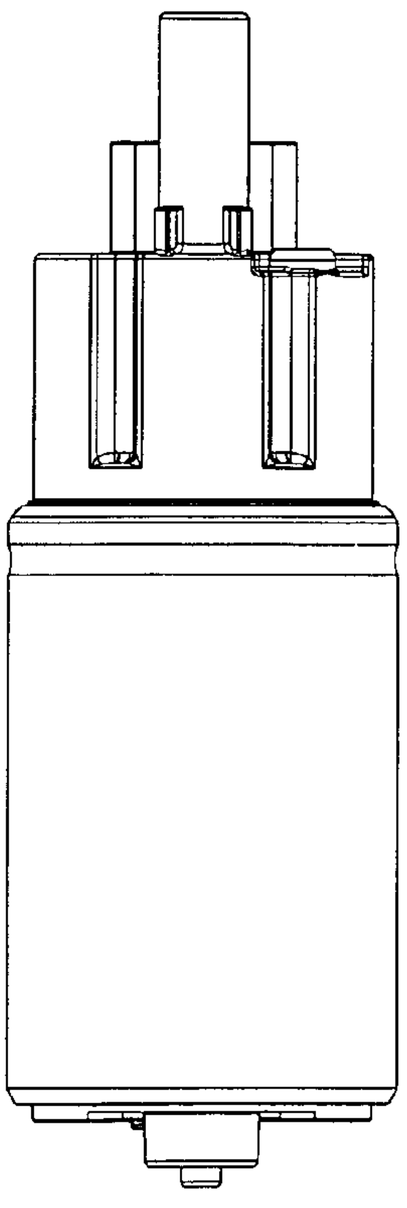

FIG. 5

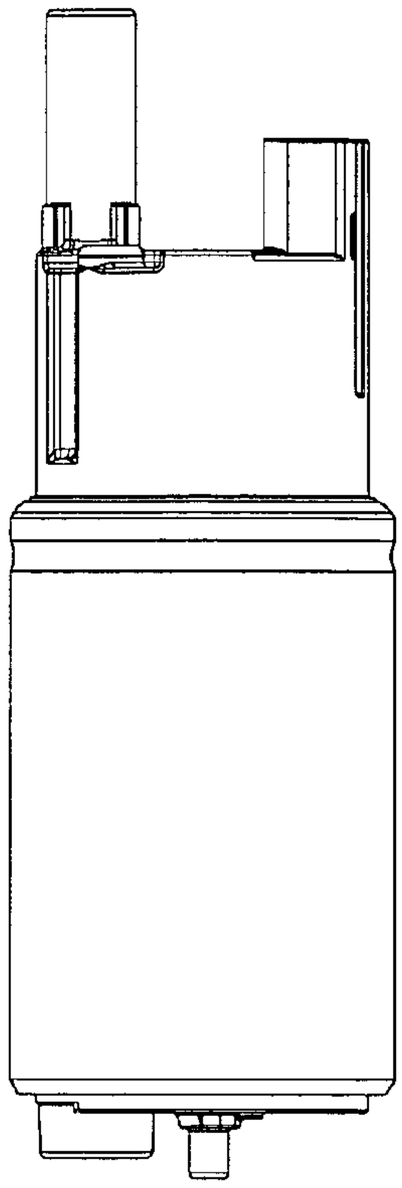

FIG. 6

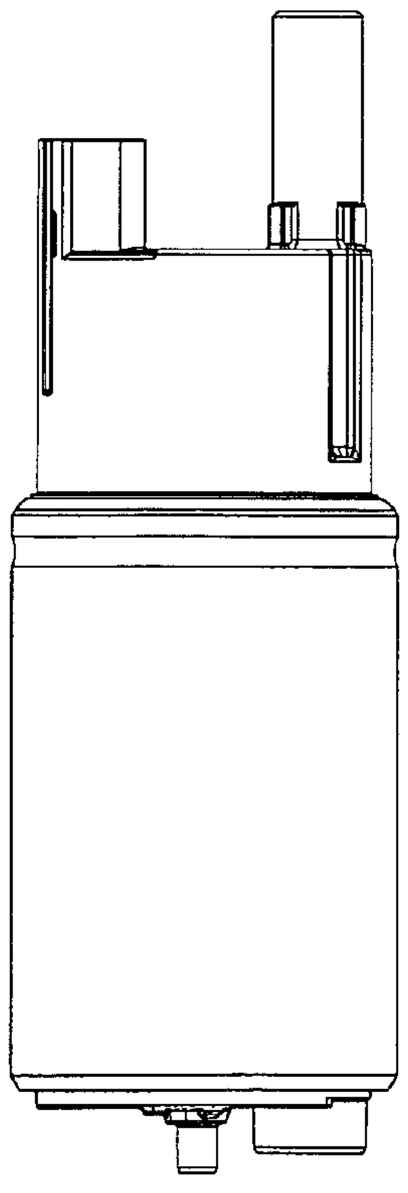

FIG. 7

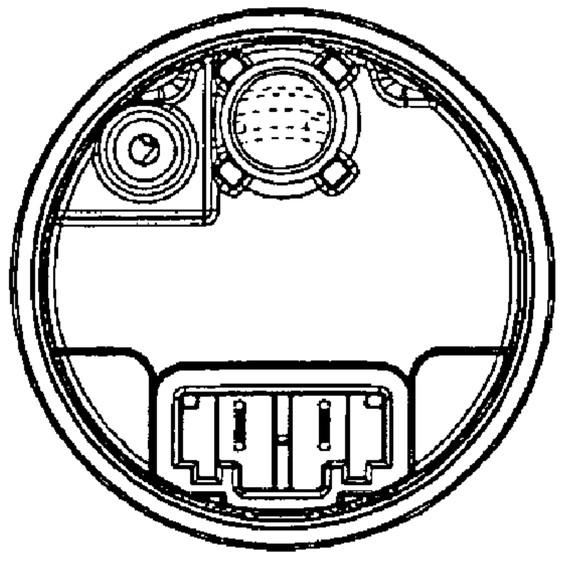

FIG. 8