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• **Renault S.A.**
92513 Boulogne Billancourt Cedex (FR)

(72) Inventor: **Yamamoto, Naoki**
Kawasaki-shi, Kanagawa 214-0012 (JP)

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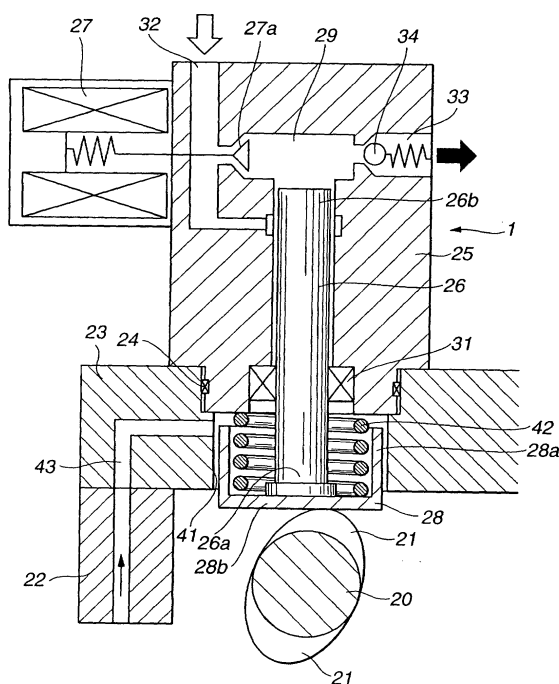
(74) Representative: **Grünecker, Kinkeldey,
Stockmair & Schwanhäusser Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)**

(71) Applicants:
• **NISSAN MOTOR COMPANY, LIMITED**
Yokohama-shi, Kanagawa 221-0023 (JP)

(54) **Lubricant supply unit of high pressure fuel pump**

(57) A lubricant supply unit of a fuel pump (1) includes: 1) a pump plunger (26) moving up and down for pressurizing a fuel, the pump plunger (26) having a lower end (26a); 2) a cam (20, 21) making a rotation; 3) a lifter (28) disposed in such a manner as to oppose the lower end (26a) of the pump plunger (26), the lifter (28) having a bottom wall portion (28b) on which the cam (20, 21) abuts, the lifter (28) making a slidable movement up and down by the rotation of the cam (20, 21); and 4) a lifter guide (23) mating with the lifter (28) in such a manner as to allow the lifter (28) to make the slidable movement up and down in the lifter guide (23), the lifter guide (23) being formed with a lubricant supply hole (51) for supplying a lubricant to a sliding face of the lifter guide (23) and a sliding face of the lifter (28), the lubricant supply hole (51) opening in an inner wall face of the lifter guide (23). The lubricant supply hole (51) is disposed at such a height that the lifter (28) at a bottom dead center allows a first part of the lubricant supply hole (51) to open at an upper end of the lifter (28) and a second part of the lubricant supply hole (51) to be covered with an outer periphery of the lifter (28).

FIG. 1



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F02M
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 7 September 2004	Examiner Torle, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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