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(54) **Injector of fuel regulated electronically**

(57) An injector for the injection of fuel in diesel motors by means of the system "common-rail" that avoids the possibility of leak of fuel because of the waste, long term, of the seat of the needle of the injector.

The rotary valve of the injector is actuated by a solenoid (1) which is controlled by an Electronic Unit of Control (UEC) (2).

The quantity of fuel that is injected, is regulated by means of the time that the ports (4',4'') of the cylinder distributor (3) are open. Since to open the ports it is only necessary that they coincide, it is avoided this way the necessity of a spring that pushes a needle on a hole to close it, that which causes with the time a defect in the seat and therefore a possible leak of fuel.

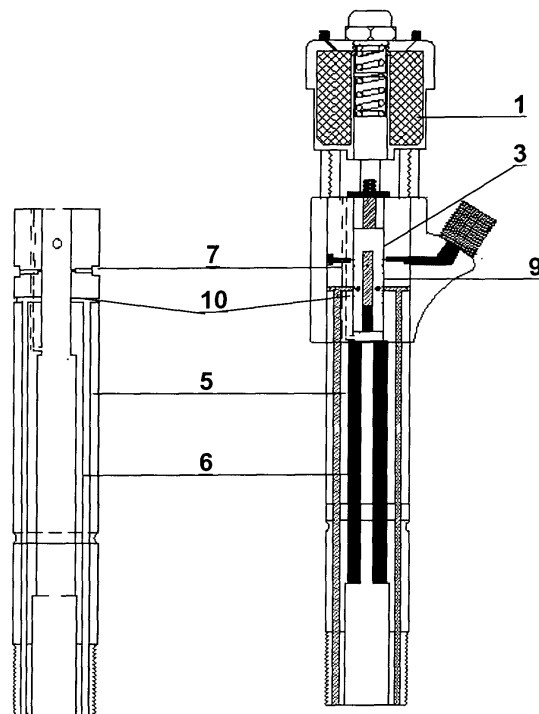


FIG. 2

FIG 3

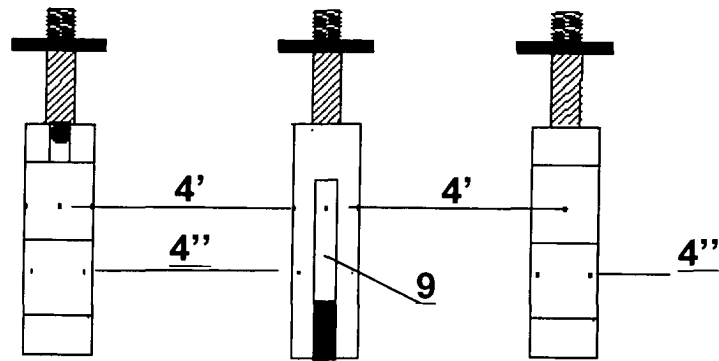


FIG. 8



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 05 07 6154

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)
X	US 2002/158155 A1 (MERTZKY WOLFGANG) 31 October 2002 (2002-10-31)	1	F02M63/00 F02M61/04 F02M61/06 F02M51/06 F02M41/16
A	* paragraph [0021] - paragraph [0023]; figures 1,2 *	2	
X	EP 0 853 195 A (ZEXEL CORPORATION) 15 July 1998 (1998-07-15)	1	
A	* column 3, line 24 - column 4, line 19; figure 2 *	2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F02M
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		8 September 2005	Schmitter, T
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>& : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 05 07 6154

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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08-09-2005

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