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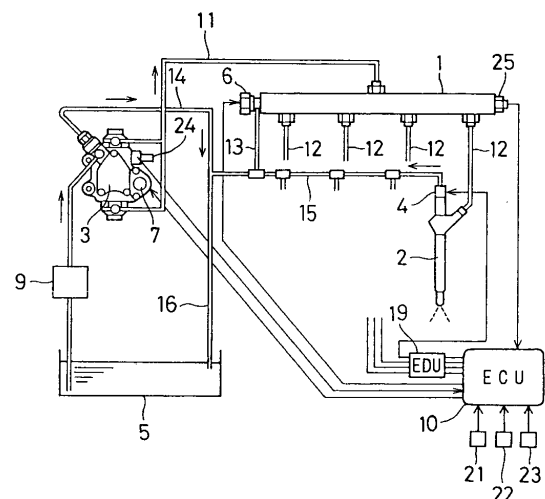
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(54) **Fuel injection system with an apparatus for removing air from fuel**

(57) A pressure reducing valve (6) of an accumulation type fuel injection system of a multi-cylinder diesel engine opens during an engine starting operation or an idling operation immediately following the engine starting operation for a period corresponding to cooling water temperature or fuel temperature. Thus, the fuel in a high-pressure fuel passage leading from a fuel supply pump (3) to fuel injection valves (2) through the common rail (1) is discharged into a fuel tank (5). Accordingly, air entering the fuel supply pump (3) while the engine is stopped is discharged to the fuel tank (5) through fuel recirculating passages (13, 15, 16). As a result, the air delivered from the fuel supply pump (3) to the injector (2) is minimized and injection quantity control is stabilized when the engine is started.

FIG. 1





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EUROPEAN SEARCH REPORT

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Munich		20 September 2007	Torle, Erik
<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 & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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