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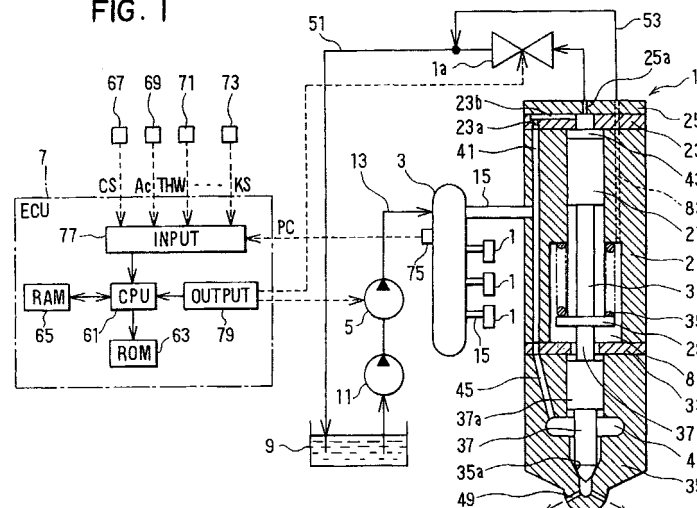
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(54) **Accumulation-type fuel injection system and accumulation chamber pressure control method therefor**

(57) A spill control valve such as an electromagnetic valve (1a) of an injector (1) is ineffectively driven to open for a period (T_q) shorter than a delay period (t_m) by which a nozzle needle (37) opens, when a pressure reducing condition to reduce fuel pressure in a common rail (3) is satisfied. A temperature of an injector driving

circuit (79) in an ECU (7) is estimated from a coolant temperature detected by a coolant temperature sensor (71). A cycle period of an ineffective driving is determined from the estimated temperature so that a thermal load applied to the injector driving circuit does not exceed a limit.

FIG. 1



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EUROPEAN SEARCH REPORT

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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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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 29 January 2002	Examiner Aign, T
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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