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EUROPEAN PATENT APPLICATION

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⑳ High pressure fuel injection system.

㉑ The high pressure fuel injection system utilizes a pressure regulating or control valve (28) in an injector leak-off fuel conduit (26) to provide a high residual pressure within the injector (5) between injections. Maintaining a high residual fuel pressure boosts the injection pressure to provide improved fuel atomization, with consequent reductions in particulate emissions and increased fuel efficiency. The pressure regulating valve (28) may be controlled in accordance with engine operating conditions to provide a variable injection pressure boost commensurate with engine requirements.

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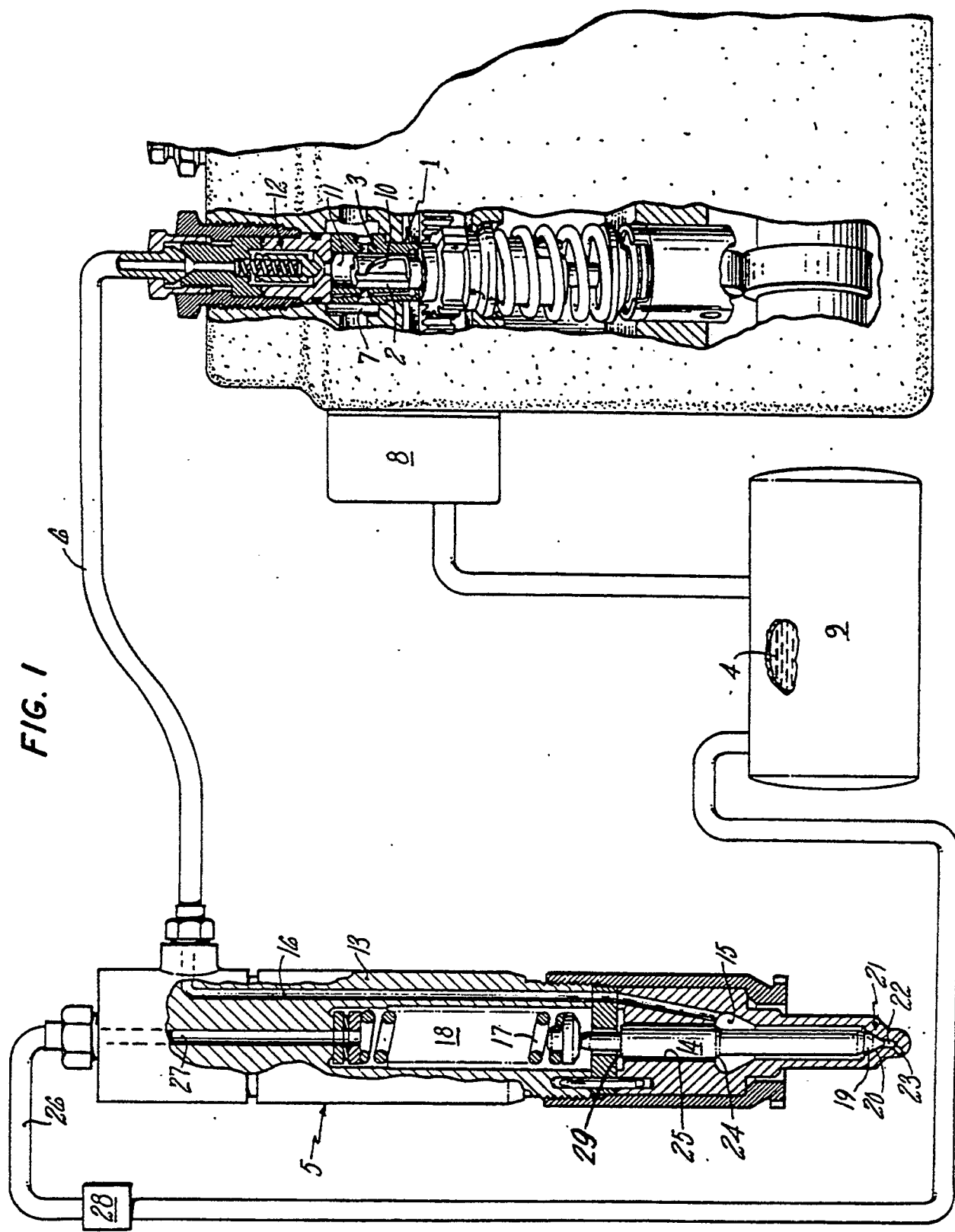


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number

EP 91 63 0010

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.5)
X	EP-A-0 255 350 (AMBAC) * The whole document *	1-6,20	F 02 M 63/00
Y		7-9,14	F 02 M 61/20
A		16	F 02 M 47/00

Y	DE-A-2 801 976 (BOSCH) * The whole document *	7-9,14	
A		1,2,4	

A	US-A-4 359 032 (OHIE) * Column 3, line 35 - column 5, line 44; figures 1,2,9,13 *	1,2,4,7	

A	GB-A-2 004 588 (KLÖCKNER-HUMBOLDT-DEUTZ) * The whole document *	1,5	

A	GB-A-2 086 473 (DAIMLER-BENZ) * Page 1, line 129 - page 2, line 54; figures 1,2 *	1,2,4	

			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 02 M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 02-10-1991	Examiner VAN ZOEST A.P.
CATEGORY OF CITED DOCUMENTS		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	
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			

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