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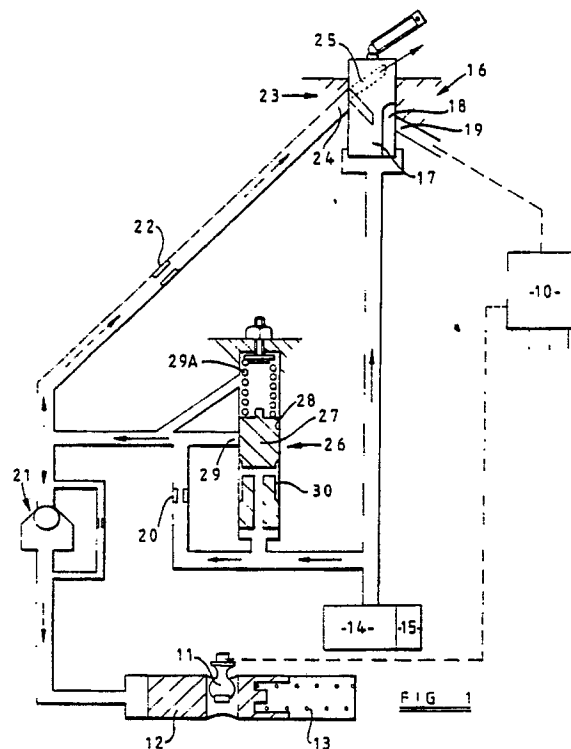
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54 **Fuel injection pumping apparatus.**

57 A fuel pumping apparatus for supplying fuel to an internal combustion engine has an injection pump 10 supplied with fuel by a low pressure feed pump 14 through an adjustable throttle 16. A fluid pressure operable piston 12 is movable against the action of a spring 13 to control the timing of delivery of fuel by the injection pump. Fuel under pressure is applied to the piston through a first fixed orifice 20 from the feed pump. A second fixed orifice 22 and a variable orifice 23 are connected in series between a drain and the downstream side of the first fixed orifice. In parallel with the first fixed orifice is a constant pressure drop valve 26 which maintains the pressure drops across the first fixed orifice substantially constant when the pressure drop has risen to a pre-determined value.





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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.5)
X	GB-A-2174515 (LUCAS INDUSTRIES) * page 3, lines 1 - 83; figures 1, 2 * ----	1-3	F02M41/14 F02D1/18
A	FR-A-2356002 (LUCAS INDUSTRIES) * page 2, line 5 - page 5, line 34; figures * ----	1, 2	
A	GB-A-1555483 (LUCAS INDUSTRIES) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F02M F02D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29 OCTOBER 1990	Examiner SIDERIS MARIOS
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			