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Valve disabling mechanism for an internal combustion engine.

A valve disabling mechanism, which may be employed in internal combustion engines having a retarding mode of the compression-release type additionally to the normal powering mode, includes a tubular adjusting screw (310) affixed to a valve train mechanism (50), a tubular drive pin (324) coaxially disposed within the tubular screw (310) having radial ports (334) and an actuator pin (348) disposed in the tubular drive pin (324) and reciprocated in the drive pin. Locking balls (362) are disposed within the radial ports (334), which are moveable to engage the tubular driven screw (310) and the tubular drive pin (324) for conjoint movement in the normal powering mode and to disengage the tubular screw from the tubular drive pin to permit a reciprocating motion of the tubular screw relative to the tubular drive pin in order to disable or modify the normal motion of the exhaust valves in the retarding mode.

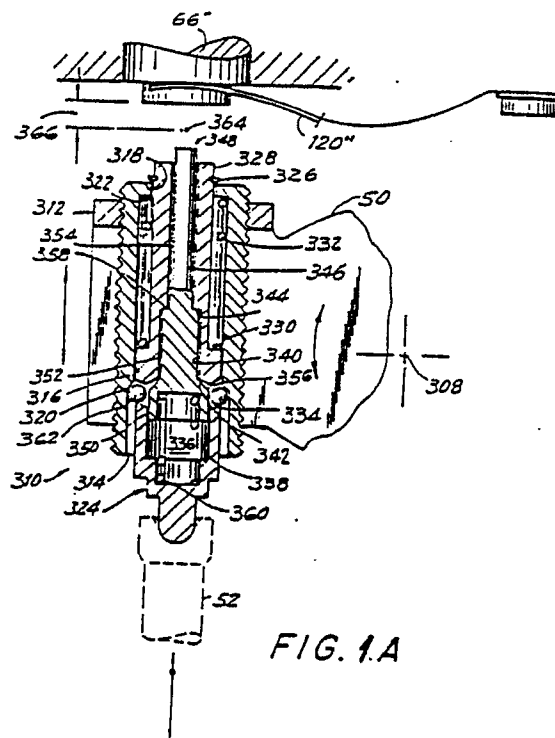


FIG. 1A



European
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EUROPEAN SEARCH REPORT

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EP 90 11 0325

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)
D,A	EP-A-0 037 269 (TAMAS) * page 16, line 10 - page 17, line 14; figures 3-5 * - - -	1	F 01 L 13/06 F 01 L 13/00
A	US-A-4 141 333 (GILBERT) * column 8, lines 16 - 41; figure 15 * - - -	1	
A	US-A-4 411 229 (CURTIS) * column 4, line 49 - column 5, line 39; figures 1, 2a, 2b * - - - - -	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 01 L
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		24 January 91	LEFEBVRE L.J.F.
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>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</div><div>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</div></div>			