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71) Applicant: WEBER S.r.I.
Corso Marconi, 20
I-10125 Torino(IT)

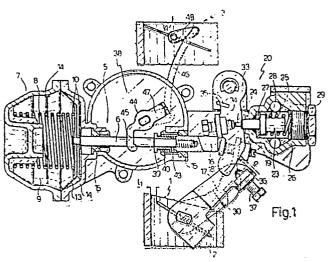
72 Inventor: Franchini, Mauro Via Corticella 7 I-40100 Bologna(IT)

72) Inventor: Gamberini, Giuseppe Via Longhena, 9 I-40100 Bologna(IT)

(74) Representative: Prato, Roberto et al, c/o Ingg. Carlo e Mario Torta Via Viotti 9 I-10121 Torino(IT)

64 A carburettor for an internal combustion engine.

57) The carburettor comprises at least one butterfly valve (1) operable to put a duct in which the petrol and air mixture is formed into communication with the outlet from the carburettor, and a starting up valve (3) operable to put this duct into communication with the atmosphere; the carburettor further includes first means (5) operable to carry the butterfly valve into a first opening position when the motor on which the carburettor is mounted is not running, second means (20) operable to control the gradual closure of the butterfly valve starting from the moment when the engine is started, and third means (38) operable to control the gradual opening of the starter valve starting from the said instant; the second means include at least one heat sensitive element (23) provided with a movable rod (24) the displacement of which is controlled by the thermal energy of the liquid in the engine cooling circuit, a first lever (30) fixed to the butterfly valve and a second, rocker lever (33), provided with a contact pad (34) which engages against the free end of the movable rod, the second lever being provided with a cam (36) and the first lever being provided with a contact pad (37) engageable against this cam in such a way that, following a displacement of the said movable rod produced by an increase in the temperature of the coolant liquid rotation of the second lever is controlled to effect gradual closure of the butterfly valve.



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EUROPEAN SEARCH REPORT

Application Number

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	DOCUMENTS CONS	SIDERED TO BE RELEVA	ANT	
Category		indication, where appropriate	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Υ	US-A-4 564 481 (S * Column 1, line 6 column 3, line 63 lines 1-6; figures	0 - column 2, line 9;	1,2	F 02 M 1/10
A			3,4	
Y	PATENT ABSTRACTS 0 16 (M-187)[1161], JP-A-57 173 543 (H K.K.) 25-10-1982 * Abstract *	F JAPAN, vol. 7, No. 22nd January 1983; & ITACHI SEISAKUSHO	1,2	
A	* Page 2, lines 1-	7; page 4, line 29 -	1,2,4-6	
A	US-A-4 186 697 (Y	. YASUDA et al.)		
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				F 02 M
791144				
				·
,				
	The present search report has	been drawn up for all claims	-	
	Place of search	Date of completion of the search		Examiner

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

EPO FORM 1503 03.82 (P0401)

- 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