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(54) A system for reducing fuel consumption in combustion engines

(57) A system for reducing fuel consumption in combustion engines is described, which may be installed between the flange and the fuel filter, by means of which a reduction in the excess of pressure in the primary filter is achieved, which entails a consequent reduction of the amount of fuel going to the injection fuel pump. The system consists of three perforated plates for the passage

of fuel, a pair of pistons provided for supplying pressure to the inside of the reducer system, a safety valve for moving the piston, and a spring for each piston, which keeps each one under tension and in its position. The system is applicable with diesel or "bunker" fuel. The fuel reduction achieved is within the range of 10 to 60% in comparison with current consumption.

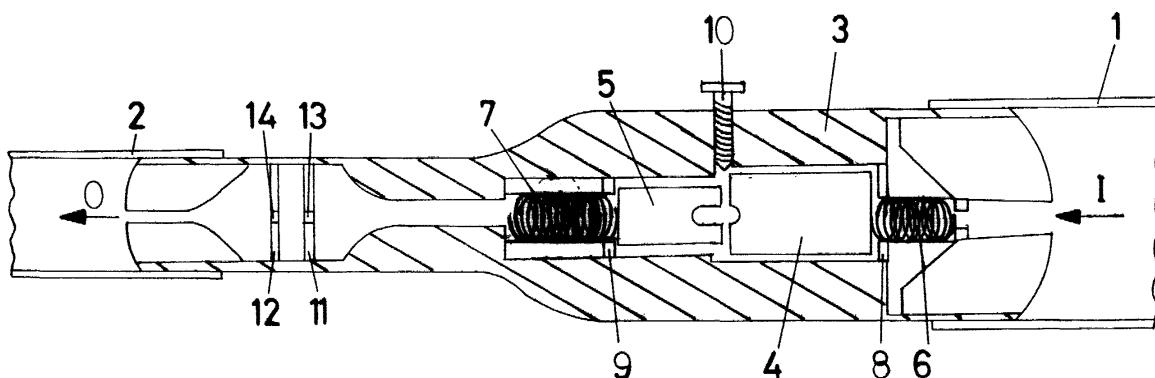


FIG.1



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	EP 0 392 187 A (BOSCH GMBH ROBERT) 17 October 1990 (1990-10-17) * column 2, line 25 – column 7, line 3; figures 1-3 *	1,2	F02M37/00
A	DE 40 31 232 A (BOSCH GMBH ROBERT) 9 April 1992 (1992-04-09) * column 2, line 5 – column 3, line 66; figures 1-3 *	1	
A	GB 2 165 306 A (FORD MOTOR CO) 9 April 1986 (1986-04-09) * page 1, line 106 – page 2, line 129; figure *	1	
A	GB 2 167 808 A (PIERBURG GMBH & CO KG) 4 June 1986 (1986-06-04) * page 1, line 70 – page 2, line 122; figures 2,3 *	1	
A	FR 2 285 526 A (VILLEMUR RENE) 16 April 1976 (1976-04-16) * the whole document *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 11, 28 November 1997 (1997-11-28) & JP 09 177628 A (ZEXEL CORP), 11 July 1997 (1997-07-11) * abstract *	1	F02M
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search		Examiner
MUNICH	5 March 2002		Marsano, F
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			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 50 0215

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-03-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0392187	A	17-10-1990	DE	3912145 A1	18-10-1990
			DE	59000387 D1	03-12-1992
			EP	0392187 A1	17-10-1990
			JP	2298659 A	11-12-1990
DE 4031232	A	09-04-1992	DE	4031232 A1	09-04-1992
			GB	2248882 A ,B	22-04-1992
			JP	4262052 A	17-09-1992
GB 2165306	A	09-04-1986	DE	3534330 A1	03-04-1986
			JP	61085566 A	01-05-1986
GB 2167808	A	04-06-1986	DE	3443746 A1	05-06-1986
			FR	2574126 A1	06-06-1986
			IT	1182870 B	05-10-1987
FR 2285526	A	16-04-1976	FR	2285526 A1	16-04-1976
			DE	2540548 A1	25-03-1976
			JP	51055820 A	17-05-1976
JP 09177628	A	11-07-1997	NONE		