(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 92850049.5

(51) Int. CI.5: F28F 9/00

(22) Date of filing: 06.03.92

(30) Priority: 06.03.91 SE 9100674

(43) Date of publication of application : 09.09.92 Bulletin 92/37

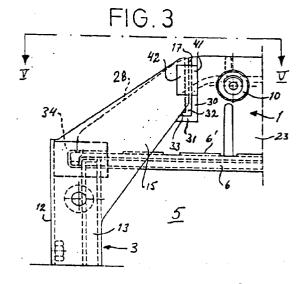
84) Designated Contracting States : DE ES FR GB IT

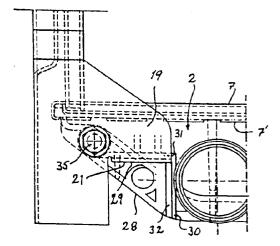
(88) Date of deferred publication of search report: 24.02.93 Bulletin 93/08

- (1) Applicant: BLACKSTONE SWEDEN AB Mjällby S-294 02 Sölvesborg (SE)
- (72) Inventor : Petersson, Lars Elvsbergsvägen 15 S-374 41 Karlshamn (SE)
- (74) Representative: Säfwenberg, Björn et al Axel Ehrners Patentbyra AB Box 10316 S-100 55 Stockholm (SE)

(54) Radiator for an internal combustion engine.

A radiator for an internal combustion engine includes upper and lower header boxes (1, 2), each having first and second ends, and side members (3, 4), each having first and second ends adapted to be connected to a respective one of said first and second ends of said header boxes to form a radiator frame enclosing a cooling block (5). A first box (1) has first engagement means (32) at each of its first and second end. Each of the side members (3, 4) has second engagement means (17, 18) at its first end for releasable engagement with the first engagement means (32) of the first header box. Resilient means (34) is interposed between said cooling block (5) and the side members (3, 4) at their first ends. The first engagement means (32) and the second engagement means (17,18) are adapted, when mutually engaged, to allow displacement of the first ends of the side members (3,4) substantially perpendicularly to the longitudinal direction of the first header box (1)and to prevent displacement in other directions. A a second header box (2) has first guide means (33) at each of its first and second ends and each of the side members (3,4) has second guide means (21,22) at its second end. The first (33) and second (21,22) guide means are adapted, when mutually releasably engaged, to allow displacement of the second ends of the side members (3,4) substantially in the longitudinal direction of the second header box (2) and to prevent displacement in other directions. The resilient means (34) are compressed between the first ends of the side members and the cooler block (5) upon displacement of the second ends of the side members (3,4) towards each other.







EUROPEAN SEARCH REPORT

Application Number

EP 92 85 0049

Category	Citation of document with ind of relevant pass	ication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
\	EP-A-0 170 952 (BEHR * the whole document	GMBH)	1	F28F9/00	
A	US-A-1 784 766 (STRA * the whole document	NAHAN)	1		
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
				F28F B60K	
	The present search report has be	en drawn up for all claims Date of completion of the search	<u> </u>	Examiner	
THE HAGUE		15 DECEMBER 1992	I	SMETS E.D.C.	
	E: earlier patent d X: particularly relevant if taken alone after the filing			blished on, or	
document of the same category A: technological background		L : document ci	D : document cited in the application L : document cited for other reasons		
O : no	on-written disclosure sermediate document		the same patent fam		