

Title (en)

Radiator for an internal combustion engine.

Title (de)

Radiator für Brennkraftmaschine mit innerer Verbrennung.

Title (fr)

Radiateur pour moteur à combustion interne.

Publication

EP 0502836 B1 19950125 (EN)

Application

EP 92850049 A 19920306

Priority

SE 9100674 A 19910306

Abstract (en)

[origin: EP0502836A2] 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 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. <IMAGE>

IPC 1-7

F28F 9/00

IPC 8 full level

F28F 9/00 (2006.01)

CPC (source: EP)

F28F 9/001 (2013.01); **F28F 2275/085** (2013.01)

Cited by

FR2706994A1; DE102005040607A1; DE102006037761A1; DE102006037761B4; EP0597767A1; FR2697907A1; WO9947875A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0502836 A2 19920909; EP 0502836 A3 19930224; EP 0502836 B1 19950125; DE 69201254 D1 19950309; DE 69201254 T2 19950622; ES 2067320 T3 19950316; SE 508658 C2 19981026; SE 9100674 D0 19910306; SE 9100674 L 19920907

DOCDB simple family (application)

EP 92850049 A 19920306; DE 69201254 T 19920306; ES 92850049 T 19920306; SE 9100674 A 19910306