

Title (en)

Modular element for the production of heating radiators and process for the manufacturing thereof

Title (de)

Modulares Element zur Herstellung von Heizkörpern und Herstellungsverfahren dafür

Title (fr)

Élément modulaire pour la production de radiateurs de chauffage et son processus de fabrication

Publication

**EP 1935535 A3 20100317 (EN)**

Application

**EP 07122552 A 20071206**

Priority

IT BS20060210 A 20061206

Abstract (en)

[origin: EP1935535A2] The invention provides a modular element for composing heating radiators comprising a die-casting finned structure of aluminium, defining one, two or more vertical conduits extending between two horizontal conduits, namely an upper and a lower, in which in the or each vertical conduit a tubular insert is disposed, of a metal with a higher mechanical strength and chemical corrosion resistance than the material forming the finned structure. The inner surface of the upper and lower horizontal conduits in said structure is lined with a layer of anticorrosive material deposited thereon after casting the structure. The invention also relates to a process for manufacturing the modular radiator element.

IPC 8 full level

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Citation (search report)

- [Y] EP 1043560 A1 20001011 - S I R A SPA [IT]
- [Y] US 3396785 A 19680813 - BERNHARD KIRSCH
- [Y] GB 1114121 A 19680515 - KIRSCH BERNHARD
- [Y] EP 0816791 A1 19980107 - S I R A SPA [IT]

Cited by

EA019850B1; EA021488B1; ITMI20091751A1; EA021487B1; CN102428337A; EA019174B1; EP2873926A4; WO2009156843A3; WO2016046804A1; WO2010131272A1; WO2011045652A3; WO2011045653A3

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