

Title (en)

Heat exchanger element and heating system provided with such heat exchanger element

Title (de)

Wärmetauscherelement und Heizanlage mit so einem Wärmetauscherelement

Title (fr)

Élément d'un échangeur de chaleur et système de chauffage avec un tel élément

Publication

**EP 1722172 A1 20061115 (EN)**

Application

**EP 06076027 A 20060509**

Priority

NL 1029004 A 20050510

Abstract (en)

The invention relates to a heat exchanger element intended for a central heating boiler, which heat exchanger element is designed as a monocasting from substantially aluminum, the heat exchanger element being provided with walls which bound a water-carrying channel, and with at least one wall which bounds at least one flue gas draft to which a burner can be connected, at least one wall which bounds the at least one flue gas draft being water-cooled in that it also forms a boundary of the water-carrying channel, while one said at least one water-cooled wall is provided with heat exchanging surface enlarging pins and/or fins which extend in the respective flue gas draft, wherein the cross-sectional surface of a said pin and/or fin is smaller than 25 mm<sup>2</sup>. The invention also relates to a central heating boiler provided with such a heat exchanger element.

IPC 8 full level

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Citation (applicant)

- EP 0889292 A1 19990107 - REMEHA FABRIEKEN BV [NL]
- US 5829514 A 19981103 - SMITH DEAN L [US], et al
- EP 0608030 A1 19940727 - RADSON ALUTHERM NV [BE]

Citation (search report)

- [YDA] EP 0889292 A1 19990107 - REMEHA FABRIEKEN BV [NL]
- [YD] US 5829514 A 19981103 - SMITH DEAN L [US], et al
- [A] EP 0843135 A1 19980520 - HOLDING J H DECKERS N V [AN], et al
- [A] DE 4421671 A1 19960104 - BROETJE AUGUST GMBH & CO [DE]
- [A] GB 2000268 A 19790104 - ASS ENG LTD
- [X] FR 2495744 A1 19820611 - STAIGER EWALD [DE]

Citation (third parties)

Third party :

EP 0794392 A1 19970910 - DEJATECH BV [NL]

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