

Title (en)

Heat-exchanger with a higher performance and hygiene level

Title (de)

Wärmetauscher hoher Leistung und Hygiene

Title (fr)

Echangeur de chaleur avec un rendement amélioré et hygiénique

Publication

**EP 0537650 B1 19971217 (DE)**

Application

**EP 92117349 A 19921010**

Priority

DE 9112704 U 19911012

Abstract (en)

[origin: EP0537650A2] Heat exchangers of high performance and high hygiene levels are produced from steel and galvanised. It has been found that a more stable and resistant structure is achieved by constructing the heat-transferring ribs by means not of plates, but of sheets 19 to 21, 23 to 25 arranged in a multiplicity of rows. The alternating use of sheets of different width permits different dividing spacings of the sheets to be achieved in the direction of passage of the air to be cooled, without the need arising for a corresponding number of gaps acting as balancing zones. Due to the elimination or substantial reduction of the number of gaps, the latter can be held so wide without essential impairment of the thermal performance that metal bridges are avoided in the case of galvanisation and the settling of foreign bodies which impair hygiene is suppressed during operation. <IMAGE>

IPC 1-7

**F28F 1/32**; **A23L 3/36**

IPC 8 full level

**A23L 3/36** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP)

**F28D 1/0477** (2013.01); **F28F 1/32** (2013.01); **F28F 2215/04** (2013.01)

Cited by

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Designated contracting state (EPC)

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**EP 0537650 A2 19930421**; **EP 0537650 A3 19930908**; **EP 0537650 B1 19971217**; AT E161323 T1 19980115; DE 59209072 D1 19980129; DE 9112704 U1 19920116; ES 2112287 T3 19980401; FI 102412 B1 19981130; FI 102412 B 19981130; FI 924614 A0 19921012; FI 924614 A 19930413

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