

Title (en)
Tube and fin heat exchanger

Title (de)
Lamellenwärmetauscher

Title (fr)
Echangeur de chaleur à lamelles

Publication
EP 1701124 A1 20060913 (DE)

Application
EP 06001939 A 20060131

Priority
DE 102005005293 A 20050204

Abstract (en)
u Through embossing, the flow direction of gas-like medium (7) forms a spike-like profile. At the tips of the spikes (9, 10, 11), there is a flow break for generating a turbulent flow pattern (13). The spike embossing may be periodically arranged at specific intervals (P) and between two opposing spikes (9, 11) the embossing height (PH) is such that the ratio of the height to the interval is either equal to or greater than 0.2 and is less than or equal to 0.25. The embossing height may be greater than 2 millimetres, preferably between 2.2 and 2.4 millimetres. There may be through-pipes (17) for heating rods, heating pipes or heating pipe rods, with the opening having no bordered edges.

IPC 8 full level
F28F 1/32 (2006.01); **F28D 1/047** (2006.01); **F28D 1/053** (2006.01); **F28F 17/00** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)
F28F 1/32 (2013.01); **F28F 13/12** (2013.01); **F28F 17/00** (2013.01); **F28F 2215/10** (2013.01); **F28F 2275/125** (2013.01)

Citation (applicant)

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Citation (search report)

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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