

Title (en)

CORRUGATED HEAT EXCHANGER TUBE FOR HOT WATER SUPPLY

Title (de)

GEWELLTES WÄRMETAUSCHERROHR ZUR HEISSWASSERVERSORGUNG

Title (fr)

TUBE ONDULÉ POUR ÉCHANGEUR THERMIQUE DESTINÉ À UNE ALIMENTATION EN EAU CHAUDE

Publication

**EP 2071266 A4 20130123 (EN)**

Application

**EP 07792965 A 20070824**

Priority

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- CN 200610113027 A 20060908

Abstract (en)

[origin: EP2071266A1] The present invention relates to a hot water corrugated heat transfer tube that exchanges heat between its interior and exterior. A plurality of projections, each whose height (H1) is in the range of 0.5 mm - 1.5 mm is provided in at least one part of the inner surface of a portion positioned in a section of a corrugated heat transfer tube, where the Reynolds number (Re) of the fluid flowing in the interior of the tube is less than 7,000. The height H1 of the projections is in the range of 0.05 - 0.15 times the inner diameter D or the height H1 of the projections is in the range of 1 - 3 times the depth (Hm) of the corrugated grooves. As a result, with a simple structure, the heat transfer performance in the low Reynolds number zone is improved, and the pressure loss inside the tube is small.

IPC 8 full level

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CPC (source: EP KR US)

**F28D 7/02** (2013.01 - KR); **F28F 1/30** (2013.01 - KR); **F28F 1/40** (2013.01 - KR); **F28F 1/42** (2013.01 - EP US); **F28F 1/426** (2013.01 - EP US); **F28F 13/12** (2013.01 - KR)

Citation (search report)

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- [X] EP 0165583 A2 19851227 - HITACHI LTD [JP], et al
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- See references of WO 2008029639A1

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