

Title (en)

HEAT TRANSFER PIPE FOR HEAT EXCHANGER

Title (de)

WÄRMEÜBERTRAGUNGSROHR FÜR WÄRMETAUSCHER

Title (fr)

CONDUIT DE TRANSFERT DE CHALEUR POUR ÉCHANGEUR DE CHALEUR

Publication

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Application

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Abstract (en)

[origin: WO2012119661A1] The invention provides a heat transfer pipe for heat exchanger, an inner surface of the heat transfer pipe being provided alternately with a plurality of helical primary teeth (21, 22, 23, 24, 25, 26, 27) and a plurality of grooves (31, 32, 33, 34, 35, 36), each groove being disposed between adjacent primary teeth, wherein a protrusion set is provided in at least one groove (31, 36), the protrusion set comprises a plurality of protrusions (41) sequentially and intermittently disposed in an extending direction of the primary teeth, and each protrusion (41) has a radial height lower than those of the primary teeth, and wherein at least one groove having no protrusion set (32, 33, 34, 35) is provided between the adjacent ones (31, 36) of the grooves each having a protrusion set. In this way, the above heat transfer pipe suppresses significantly increasing flow resistance of a fluid, and is easy to manufacture with low manufacturing cost, at the same time of improving the efficiency of heat exchange.

IPC 8 full level

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