

Title (en)

Tube for evaporative heat exchanger with pores having different size

Title (de)

Wärmeaustauscherrohr zur Verdampfung mit unterschiedlichen Porengrößen

Title (fr)

Tube d'échangeur de chaleur pour évaporation avec des pores de tailles différentes

Publication

EP 1156294 B1 20050105 (DE)

Application

EP 01111034 A 20010508

Priority

DE 10024682 A 20000518

Abstract (en)

[origin: EP1156294A2] The heat exchanger pipe (1) has integral annular or helical ribs (2) on the outer side of the pipe and deformed to form closed channels (4). The channels have continuous cross-section and are opened by outer pores (5,6) in at least two different sizes. The reciprocal ratio of the average sizes of the smallest sized pores (6) to the average sizes of the next largest sized pores (5) is 1.5 - 4. The frequency ratio of the number of smallest sized pores to the number of the next largest sized pores is between 12:1 and 1:5. An Independent claim is included for a method to manufacture the heat exchanger pipe.

IPC 1-7

F28F 13/18

IPC 8 full level

F28F 1/12 (2006.01); **B21H 3/04** (2006.01); **F28F 13/02** (2006.01); **F28F 13/18** (2006.01)

CPC (source: EP US)

F28F 13/187 (2013.01 - EP US); **Y10T 29/49391** (2015.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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EP 01111034 A 20010508; DE 10024682 A 20000518; DE 50105008 T 20010508; JP 2001120753 A 20010419; US 85978901 A 20010517