

Title (en)

MECHANICAL DEVICE TO IMPROVE THE TRANSFER OF HEAT AND TO PREVENT CLOGGING OF HEAT EXCHANGERS

Publication

EP 0174254 B1 19881109 (FR)

Application

EP 85401696 A 19850829

Priority

FR 8413518 A 19840831

Abstract (en)

[origin: EP0174254A1] 1. A heat exchanger comprising a plurality of tubes (1) in which a fluid circulates and in at least one of which is disposed a movable element formed by a metal coil in the form of a solenoid, at least one end of which is held in position by a coupling system such that said movable element can be caused to rotate by the fluid so as to prevent said tube from becoming clogged and to improve heat transfer, said exchanger being characterised in that said movable element (2) in the form of a solenoid is rigid and non-deformable so that it can be caused to rotate without coming into contact with the inner wall of said tube (1) during its movement, while said coupling system comprises an outer fastening means to said exchanger tube and a mechanical connection (4) enabling said movable element to rotate freely on its own axis, about the axis of said exchanger tube.

IPC 1-7

F28F 13/12; F28F 19/00; F28G 3/08

IPC 8 full level

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CPC (source: EP)

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Cited by

EP3719435A1; FR3094764A1; CN108636177A; FR2975754A1; EP0282406A1; FR2612267A1; US4848446A; EP1227292A3; FR2890162A1; JP2009506296A; JP4842321B2; US8225848B2; WO2007026066A1; WO9427106A1; EP1227292A2; FR2820197A1

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