

Title (en)  
Flat tubes heat exchanger

Title (de)  
Flachrohr-Wärmeübertrager

Title (fr)  
Echangeur de chaleur à tubes plats

Publication  
**EP 1398592 B1 20150722 (DE)**

Application  
**EP 03020179 A 20030905**

Priority  
DE 10242188 A 20020910

Abstract (en)  
[origin: EP1398592A1] Heat exchanger comprises tubes (2, 3) containing a first medium and ribs (1) containing a second medium. At least one interference element (10) for the flow of the second medium is provided in the region of a tube/rib contact point. Preferred Features: The tubes and the ribs are soldered together. At least one interference element is a knob-like projection from the rib material, preferably a tab, especially punched out of the rib material, positioned against the main flow direction of the second medium.

IPC 8 full level  
**F28F 1/12** (2006.01)

CPC (source: EP)  
**F28F 1/128** (2013.01)

Designated contracting state (EPC)  
DE ES FR IT

DOCDB simple family (publication)  
**EP 1398592 A1 20040317; EP 1398592 B1 20150722; DE 10242188 A1 20040318**

DOCDB simple family (application)  
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