

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 1672304 B1 20070627 (DE)

Application
EP 04030073 A 20041218

Priority
EP 04030073 A 20041218

Abstract (en)
[origin: EP1672304A1] Heat exchanger has a jacket tube (8) that has an inlet (1) and an outlet (2) for a medium to be cooled. An inner tube (3), which is arranged inside the jacket tube, is closed on the side facing the inlet, is joined to a coolant inlet (5) on the side facing the outlet and has a coolant outlet. This coolant outlet leads to the side facing the outlet of inner tube and transitions into spiral line (7). The spiral line, from the side facing the outlet, extends toward the inlet while winding around the inner tube and, in the end, leads into a coolant discharge (10). An independent claim is also included for the utilization of a heat exchanger.

IPC 8 full level
F28D 7/02 (2006.01)

CPC (source: EP KR US)
F28D 7/02 (2013.01 - KR); **F28D 7/024** (2013.01 - EP US)

Cited by
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1672304 A1 20060621; EP 1672304 B1 20070627; AT E365900 T1 20070715; AU 2005315782 A1 20060622; BR PI0519525 A2 20090210; CA 2590569 A1 20060622; CN 101080605 A 20071128; DE 502004004210 D1 20070809; ES 2289419 T3 20080201; IL 183988 A0 20071031; JP 2008524543 A 20080710; KR 20070094792 A 20070921; MA 29102 B1 20071203; MX 2007007366 A 20070820; PL 1672304 T3 20071130; PT 1672304 E 20070927; RU 2007127415 A 20090127; TN SN07230 A1 20081121; US 2007295493 A1 20071227; WO 2006063840 A1 20060622; WO 2006063840 A8 20071018; ZA 200705222 B 20080528

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EP 04030073 A 20041218; AT 04030073 T 20041218; AU 2005315782 A 20051216; BR PI0519525 A 20051216; CA 2590569 A 20051216; CN 200580043483 A 20051216; DE 502004004210 T 20041218; EP 2005013548 W 20051216; ES 04030073 T 20041218; IL 18398807 A 20070617; JP 2007545957 A 20051216; KR 20077016434 A 20070718; MA 30005 A 20070618; MX 2007007366 A 20051216; PL 04030073 T 20041218; PT 04030073 T 20041218; RU 2007127415 A 20051216; TN SN07230 A 20070615; US 79251305 A 20051216; ZA 200705222 A 20070702