

Title (en)

Single flow circuit heat absorbing/release device for periodic positive and reverse directional pumping

Title (de)

Wärmeaufnahme- bzw. -abgabevorrichtung mit Einzelfluss-Schaltung zum periodischen Vor- und Rückwärtspumpen

Title (fr)

Dispositif absorbant/libérant la chaleur en circuit unique pour pompage directionnel inverse et positif périodique

Publication

EP 2148164 A2 20100127 (EN)

Application

EP 09251864 A 20090723

Priority

- US 21947208 A 20080723
- US 29230808 A 20081117

Abstract (en)

The present invention discloses the conventional cold heat absorbing and the heat dissipating warming energy discharge device (100) being further made to the single flow circuit (101) functional structure for periodic positive and reverse directional pumping (123), wherein it is through changing the flow direction of the positive or reverse directional pumping the fluid (10) passing through the flow circuit (101) to timely improve the temperature distribution status between the fluid (10) and the heat absorbing/release device (100) as well as to reduce the disadvantages of impurity accumulations at fixed flow direction.

IPC 8 full level

F28F 13/06 (2006.01); **F28D 21/00** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)

F28D 21/00 (2013.01); **F28F 13/06** (2013.01); **F28F 19/00** (2013.01); **F28F 27/02** (2013.01); **F28F 2250/08** (2013.01)

Cited by

EP3300226A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2148164 A2 20100127; BR PI0902599 A2 20100518; CA 2672896 A1 20100123; CN 201662349 U 20101201; JP 2010032207 A 20100212; SG 158832 A1 20100226

DOCDB simple family (application)

EP 09251864 A 20090723; BR PI0902599 A 20090722; CA 2672896 A 20090717; CN 200920164290 U 20090717; JP 2009170804 A 20090722; SG 2009049792 A 20090723