

Title (en)

MAGNETIC CONVECTION HEAT CIRCULATION PUMP

Title (de)

WÄRMEZIRKULATIONSPUMPE MIT MAGNETISCHER KONVEKTION

Title (fr)

POMPE DE CIRCULATION DE CHALEUR PAR CONVECTION MAGNETIQUE

Publication

EP 1832828 B1 20110907 (EN)

Application

EP 05811624 A 20051130

Priority

- JP 2005021956 W 20051130
- JP 2004350757 A 20041203

Abstract (en)

[origin: EP1832828A1] A magnetic convection heat circulation pump, wherein magnets are disposed inside a magnetic field flow passage for passing a magnetic fluid therein or on a part of the inner wall surface of a circulation flow passage in a magnetic pump thermally joined to a heat receiving part. The magnetic fluid is driven since a magnetic force is directly applied to the magnetic fluid and a large temperature gradient is produced between the heat receiving part and the magnetic pump due to a difference between a heat quantity transferred from the heat receiving part indirectly to the magnetic pump and the heat quantity of the magnetic fluid led into the magnetic pump.

IPC 8 full level

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CPC (source: EP US)

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