

Title (en)

APPARATUSES FOR THE ENERGY-SAVING RECOVERY OF USEFUL AMBIENT HEAT OR OF WASTE HEAT

Publication

**EP 0041244 B1 19860813 (DE)**

Application

**EP 81104105 A 19810528**

Priority

DE 3020565 A 19800530

Abstract (en)

[origin: US4413670A] A process for the energy-saving recovery of useful heat from the environment or from waste heat with the use of a reversible chemical reaction comprising, charging and discharging alternately and successively by pressure variation with hydrogen two vessels which are interconnected by lines and filled with a metal hydride and the hydride-forming metal and removing as useful heat the heat of compression and of hydride formation thereby liberated by heat exchange and replacing consumed heat of expansion and hydrogen evolution of the hydride by heat exchange with the environment or by waste heat.

IPC 1-7

**F24J 3/00**; **F24J 1/04**

IPC 8 full level

**F24V 30/00** (2018.01); **F24J 3/00** (2006.01); **F25B 17/12** (2006.01); **F25B 27/02** (2006.01); **F28D 20/00** (2006.01)

CPC (source: EP US)

**F25B 17/12** (2013.01 - EP US)

Citation (examination)

FR 691648 A 19301023 - PLATEN MUNTERS REFRIG SYST AB

Cited by

EP0055855A3; EP0054298A3; GB2174191A; EP0425368A1; FR2653541A1; EP0385472A1; US5056318A

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DOCDB simple family (publication)

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