

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

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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)

EP 0041244 A2 19811209; **EP 0041244 A3 19820120**; **EP 0041244 B1 19860813**; AT E21449 T1 19860815; CA 1158935 A 19831220; DD 160199 A5 19830511; DE 3020565 A1 19811210; DE 3175104 D1 19860918; DK 154734 B 19881212; DK 154734 C 19890508; DK 229581 A 19811201; IE 52196 B1 19870805; IE 811200 L 19811130; JP H0355751 B2 19910826; JP S5721789 A 19820204; US 4413670 A 19831108; ZA 813581 B 19820630

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