

Title (en)

METHOD AND APPARATUS FOR THE UTILISATION OF HEAT TAKEN UP AT LOW TEMPERATURE

Publication

EP 0025986 B1 19831123 (DE)

Application

EP 80105607 A 19800918

Priority

DE 2938203 A 19790921

Abstract (en)

[origin: US4368623A] A method and apparatus for the use of heat taken up at low temperature is disclosed wherein a flow of transfer medium is passed through a low temperature heat source to absorb heat. The flow then passes through multiple, sequential stages of a heat pump which successively increase in temperature whereby the flow picks up heat. The flow then releases heat to the heat receiver and subsequently passes through multiple sequential degassing stages of the heat pump. The flow releases evaporation heat and is cooled to a suitable temperature for use in the low temperature heat source. The heat pump preferably includes a two substance mixture provided within a two portion, hermetically sealed chamber.

IPC 1-7

F24J 3/04; **F25B 27/00**; **F25B 17/00**; **F24D 17/00**

IPC 8 full level

F24D 17/00 (2006.01); **F24D 17/02** (2006.01); **F25B 17/00** (2006.01); **F25B 27/00** (2006.01); **F25B 35/00** (2006.01)

CPC (source: EP US)

F24D 17/02 (2013.01 - EP US); **F25B 17/00** (2013.01 - EP US); **F25B 27/007** (2013.01 - EP US); **F25B 35/00** (2013.01 - EP US)

Cited by

DE102008003630A1; EP0055855A3; EP0378996A3; FR2539854A1; EP0124455A3; US4548046A

Designated contracting state (EPC)

AT BE CH DE FR GB LI SE

DOCDB simple family (publication)

EP 0025986 A1 19810401; **EP 0025986 B1 19831123**; AT E5439 T1 19831215; DE 2938203 A1 19810402; DE 3065698 D1 19831229; US 4368623 A 19830118

DOCDB simple family (application)

EP 80105607 A 19800918; AT 80105607 T 19800918; DE 2938203 A 19790921; DE 3065698 T 19800918; US 18911780 A 19800922