Title (en)

ADSORBENT REFRIGERATOR WITH SEPARATOR

Title (de)

ADSORPTIONSKÄLTEGERÄT MIT ABSCHEIDER

Title (fr)

MACHINE FRIGORIFIQUE ADSORBANTE A SEPARATEUR

Publication

EP 0980501 A2 20000223 (EN)

Application

EP 98922165 A 19980508

Priority

- US 9809478 W 19980508
- US 85294297 A 19970508
- US 8263898 P 19980420

Abstract (en)

[origin: WO9850739A2] A heat transfer apparatus (2) that uses an adsorbent material (10) to generate a cooling effect. The heat transfer apparatus (2) includes a first vessel (4) containing adsorbent material (10) and a second vessel (6) interconnected to the first (4). A working substance is contained within the two interconnected vessels (4, 6). The working substance is drawn as a vapor out of the second vessel (6) and toward the first vessel (4) to cool the second vessel (6). A separator device (430) separates at least part of the vapor passing from the second vessel (6) toward the first vessel (4) to delay the point at which the adsorbent material (10) in the first vessel (4) becomes saturated with vapor. The adsorbent material (10) may include a carbon fiber (613, 910) that desorbs the working substance when electrical current is passed therethrough. The carbon fiber (613) may also be positioned within a container (600) to displace fluid in the container (600) when the carbon fiber is desorbed.

IPC 1-7

F25B 17/08; F02G 1/043; F25B 21/00; H01M 8/04; F04B 17/00; E03B 3/28

IPC 8 full level

F25B 17/08 (2006.01); **F25B 21/00** (2006.01); **H01M 8/04** (2006.01)

CPC (source: EP KR)

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Citation (search report)

See references of WO 9850739A2

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