

Title (en)

ADIABATIC HEATING AND COOLING METHOD AND PORTABLE DEVICES ACCORDING TO THE ADSORPTION PRINCIPLE

Publication

**EP 0167989 A3 19890830 (DE)**

Application

**EP 85108308 A 19850705**

Priority

DE 3425419 A 19840710

Abstract (en)

[origin: US4752310A] The invention describes portable cooling and heating devices and their process of operation in accordance with the adsorption principle utilizing the adsorption substance pair of zeolite-water. The devices operate without substance and heat exchange from the environment, in that the evaporation heat originates from the solidifying heat of a non-evaporating amount of water and that the released adsorption heat is stored in the form of tangible heat of the zeolite filler. The ice which had been generated during the adsorption process is suitable for human consumption.

IPC 1-7

**F25B 29/00**; F25B 17/08; F25D 5/02

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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