Title (en)

ABSORPTION REFRIGERATOR

Title (de)

ABSORPTIONSKÄLTEMASCHINE

Title (fr)

MACHINE FRIGORIFIQUE À ABSORPTION

Publication

EP 2082175 A2 20090729 (DE)

Application

EP 07815139 A 20071004

Priority

- AT 2007000472 W 20071004
- AT 17442006 A 20061019

Abstract (en)

[origin: WO2008046120A2] Disclosed is an absorption refrigerator, particularly for operation in combination with a thermal solar power plant, comprising a generator (6) to which a heating medium is applied to expel the coolant, especially ammonia, from a solution, an evaporator (13) that can be penetrated by a cooling medium, a condenser (8) to which a recooling medium can be applied to liquefy the evaporated coolant, as well as an absorber (17, 19) and a pump that are interconnected and allow a coolant solution, e.g. a water-ammonia solution, to circulate. The pump is connected to the absorber (17, 19) at the intake end and to the generator (6) at the discharge end and is embodied as a steam pump (100) that is provided with a pump intake vessel (26). In order to be able to operate said absorption refrigerator without or with only minor variations in the cooling temperature and provide a long service life, the steam pump (100) is fitted with a pressure booster (27) which is disposed below the level of the pump intake vessel (26) and to which the heating medium can be applied, a pressure reducer (30) which is disposed below the level of the pressure booster (27) and to which the recooling medium can be applied, and a pump discharge vessel (46) that is disposed below the level of the pressure reducer (30).

IPC 8 full level

F25B 15/02 (2006.01)

CPC (source: EP)

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Citation (search report)

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