

Title (en)
ABSORPTION REFRIGERATING MACHINE

Title (de)
ABSORPTIONSKÄLTEMASCHINE

Title (fr)
MACHINE FRIGORIFIQUE À ABSORPTION

Publication
EP 3058289 A1 20160824 (DE)

Application
EP 13785816 A 20131018

Priority
DE 2013100356 W 20131018

Abstract (en)
[origin: WO2015055159A1] The invention relates to an absorption refrigerating machine (1) comprising a circulated working substance, in different mixing ratios of a solvent and a refrigerant depending on the circulating process, a high-pressure area (2) with a generator (14) generating the refrigerant from the solvent while heat is supplied, as a first component, and a condenser (20) condensing generated refrigerant, as a second component, a low-pressure area (3) with an evaporator (25) evaporating the refrigerant while heat is extracted, as a third component, and an absorber (28) for the absorption of refrigerant vapour in the solvent, as a fourth component, a refrigerant expansion valve (24), arranged between the high-pressure area and the low-pressure area, a solvent expansion valve (30), arranged between the high-pressure area and the low-pressure area, and also a working substance pump (8), arranged between the absorber and the generator, and also possibly a deflegmator (10), arranged between the generator and the condenser, as a fifth component, and also possibly a solvent heat exchanger (23), as a sixth component. In order to lower the costs of an absorption machine and increase its efficiency, at least one component is formed in itself or in combination with at least one other component as a plate heat exchanger.

IPC 8 full level
F25B 15/04 (2006.01); **F25B 33/00** (2006.01); **F25B 39/02** (2006.01)

CPC (source: EP)
F25B 15/04 (2013.01); **F25B 33/00** (2013.01); **F25B 39/026** (2013.01); **F28D 9/005** (2013.01); **Y02A 30/27** (2017.12); **Y02B 30/62** (2013.01)

Citation (search report)
See references of WO 2015055159A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015055159 A1 20150423; EP 3058289 A1 20160824

DOCDB simple family (application)
DE 2013100356 W 20131018; EP 13785816 A 20131018