

Title (en)

APPARATUS AND METHOD FOR REMOVING GAS FROM A CONTAINER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM ENTNEHMEN VON GAS AUS EINEM BEHÄLTER

Title (fr)

DISPOSITIF ET PROCÉDÉ DE PRÉLÈVEMENT DE GAZ HORS D'UN CONTENANT

Publication

**EP 2255137 A1 20101201 (DE)**

Application

**EP 09718174 A 20090226**

Priority

- EP 2009052260 W 20090226
- DE 102008013084 A 20080307

Abstract (en)

[origin: WO2009109505A1] The invention relates to a method and an apparatus for removing gas from a container in which the gas is stored in the liquid phase. For the removal of the gas, the most commonly used methods today include air vaporizers, wherein the danger of icing exists, however. According to the invention, the gas in the fluid state comes to an evaporation heat exchanger in which the gas is vaporized with a heat exchange medium. Also, the gas, which is at least partially vaporized in the evaporation heat exchanger is used to evaporate the fluid gas after further heating in a second heat exchanger or a heating device. The fluidized gas thus no longer comes into thermal contact, or only partially so, with ambient air. The risk of icing of the evaporation heat exchanger is thus significantly reduced.

IPC 8 full level

**F25B 19/00** (2006.01)

CPC (source: EP)

**F25B 19/005** (2013.01); **F28D 2021/0033** (2013.01)

Citation (search report)

See references of WO 2009109505A1

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009109505 A1 20090911**; DE 102008013084 A1 20090924; EP 2255137 A1 20101201

DOCDB simple family (application)

**EP 2009052260 W 20090226**; DE 102008013084 A 20080307; EP 09718174 A 20090226