

Title (en)

METHOD AND DEVICE FOR DEHUMIDIFYING INTERIOR AIR IN OFFSHORE APPLICATIONS

Title (de)

VERFAHREN UND EINRICHTUNG ZUR ENTFEUCHTUNG VON RAUMLUFT IM OFF-SHORE BEREICH

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA DÉSHUMIDIFICATION DE L'AIR AMBIANT DANS LE DOMAINE OFF-SHORE

Publication

**EP 2531776 A1 20121212 (DE)**

Application

**EP 10706963 A 20100204**

Priority

- DE 102010001438 A 20100201
- EP 2010051365 W 20100204

Abstract (en)

[origin: WO2011091863A1] In the case of a method and a device for treating interior air, extracted air AbL from an interior, outside air AL or a mixture of extracted air and outside air is fed to a dehumidifying sector (31) of an adsorption rotor (3) and dry or dried incoming air ZL is discharged from the dehumidifying sector (31) to the interior (100). Humid, salty outside air AL is sucked in from the surroundings of the interior (100) via an air inlet opening (14) as regeneration air and conducted via a first flow path (41) of a regeneration-air heat exchanger (4) with first and second flow paths (41, 42) that are hermetically separate from each other and in heat-exchanging communication with each other, and takes up thermal energy from an outgoing air stream (FL) or incoming air stream (ZL), which is conducted via the second flow path (42) of the regeneration-air heat exchanger (4). The moisture taken up in the dehumidifying sector (31) of the adsorption rotor (3) is taken up in a regenerating sector (32) of the adsorption rotor (3) and discharged as moist outgoing air FL via an air outlet opening (17) to the surroundings of the interior (100).

IPC 8 full level

**F24F 3/14** (2006.01); **F03D 11/00** (2006.01); **F24F 12/00** (2006.01)

CPC (source: EP US)

**F03D 80/00** (2016.05 - EP); **F03D 80/60** (2016.05 - EP US); **F03D 80/80** (2016.05 - EP US); **F24F 3/1423** (2013.01 - EP); **F24F 12/006** (2013.01 - EP); **F05B 2260/64** (2013.01 - EP); **F24F 2012/007** (2013.01 - EP); **F24F 2203/1032** (2013.01 - EP); **F24F 2203/1084** (2013.01 - EP); **Y02B 30/56** (2013.01 - EP); **Y02E 10/72** (2013.01 - EP)

Citation (search report)

See references of WO 2011091863A1

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 SM TR

DOCDB simple family (publication)

**WO 2011091863 A1 20110804**; EP 2531776 A1 20121212

DOCDB simple family (application)

**EP 2010051365 W 20100204**; EP 10706963 A 20100204