

Title (en)
Dehumidifier having dehumidifying rotor

Title (de)
Entfeuchter mit Entfeuchtungsrotor

Title (fr)
Déshumidificateur doté d'un rotor de déshumidification

Publication
EP 2116783 A2 20091111 (EN)

Application
EP 09250607 A 20090303

Priority
• KR 20080042162 A 20080507
• KR 20080042166 A 20080507

Abstract (en)
Disclosed herein is a dehumidifier having a dehumidifying rotor, the dehumidifier comprising a main body 2 including an air suction portion 4 and an air discharge portion 6; a blower 50 sucking indoor air through the air suction portion 4 such that the sucked indoor air passes through the main body 2 and is then discharged through the air discharge portion 6; a dehumidifying rotor 60 rotatably arranged in the main body 2 and including a desiccant 61 containing meso-silica and a desiccant wheel 62 surrounding the circumference of the desiccant 61 and connected to the desiccant 61; a dehumidifying rotor rotating device 84 rotating the dehumidifying rotor 60; and regeneration devices 90, 100, 110, and 120 regenerating the dehumidifying rotor 60, thus providing advantages such as high dehumidification performance and low power consumption.

IPC 8 full level
F24F 1/00 (2011.01); **F24F 1/0083** (2019.01); **F24F 3/14** (2006.01)

CPC (source: EP US)
F24F 1/0083 (2019.01 - EP US); **F24F 3/1423** (2013.01 - EP); **F24F 2221/125** (2013.01 - EP)

Citation (applicant)
KR 100598214 B1 20060707

Cited by
JP2016173209A; CN112762496A; JP2016172243A

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)
EP 2116783 A2 20091111; EP 2116783 A3 20120404

DOCDB simple family (application)
EP 09250607 A 20090303