

Title (en)  
HUMIDITY CONTROL UNIT AND HUMIDITY CONTROL SYSTEM

Title (de)  
FEUCHTIGKEITSREGELUNGSEINHEIT UND FEUCHTIGKEITSREGELUNGSSYSTEM

Title (fr)  
UNITÉ DE RÉGULATION D'HUMIDITÉ ET SYSTÈME DE RÉGULATION D'HUMIDITÉ

Publication  
**EP 3961120 A4 20230104 (EN)**

Application  
**EP 20822731 A 20200519**

Priority  
• JP 2019107782 A 20190610  
• JP 2020019798 W 20200519

Abstract (en)  
[origin: EP3961120A1] The humidity control unit (10) includes: an air passage (12) through which a first space (S1) which is a target space and a second space (S2) communicate with each other; a moisture absorber (30, 32) arranged in the air passage (12) and configured to absorb moisture from air and desorb the moisture to the air; a heat source (21, 22, 32) arranged in the air passage (12) and configured to at least cool or heat the moisture absorber (30, 32); an air transport mechanism (M) configured to allow the air in the air passage (12) to flow in reverse directions; and a controller (C) configured to control the heat source (21, 22, 32) and the air transport mechanism (M).

IPC 8 full level  
**F24F 11/65** (2018.01); **F24F 3/14** (2006.01); **F24F 7/00** (2021.01); **F24F 7/013** (2006.01); **F24F 7/06** (2006.01); **F24F 11/79** (2018.01); **F24F 13/10** (2006.01)

CPC (source: CN EP US)  
**F24F 3/14** (2013.01 - CN EP US); **F24F 3/1411** (2013.01 - EP); **F24F 7/013** (2013.01 - EP US); **F24F 7/065** (2013.01 - EP); **F24F 11/65** (2018.01 - EP US); **F24F 11/79** (2018.01 - EP); **F24F 11/89** (2018.01 - CN); **F24F 13/10** (2013.01 - EP); **F24F 13/30** (2013.01 - CN); **F24F 11/79** (2018.01 - US); **F24F 2007/005** (2013.01 - EP)

Citation (search report)  
• [XYI] JP 2011043311 A 20110303 - OKAYAMA ECO ENERGY GIJUTSU KENKYUSHO KK  
• [XYI] WO 2016065394 A1 20160506 - INTEX HOLDINGS PTY LTD [AU]  
• [X] US 6364942 B1 20020402 - FELBER STEVEN M [US], et al  
• [Y] JP 2010249485 A 20101104 - MITSUBISHI ELECTRIC CORP  
• [Y] US 2013213079 A1 20130822 - ITO SHINICHI [JP], et al  
• [Y] JP 2011177657 A 20110915 - TOYOTA IND CORP  
• [Y] JP 2018035984 A 20180308 - MITSUBISHI ELECTRIC CORP  
• [Y] JP 2016142448 A 20160808 - PANASONIC IP MAN CORP  
• [Y] EP 2918927 A1 20150916 - DAIKIN IND LTD [JP]  
• See also references of WO 2020250629A1

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

DOCDB simple family (publication)  
**EP 3961120 A1 20220302**; **EP 3961120 A4 20230104**; CN 113874660 A 20211231; JP 2020200985 A 20201217; SG 11202112648T A 20211230; US 2022074608 A1 20220310; WO 2020250629 A1 20201217

DOCDB simple family (application)  
**EP 20822731 A 20200519**; CN 202080039420 A 20200519; JP 2019107782 A 20190610; JP 2020019798 W 20200519; SG 11202112648T A 20200519; US 202117531171 A 20211119