

Title (en)

PROCESS AND EQUIPMENT CAPABLE TO ACHIEVE ZERO-ENERGY HEATING, VENTILATION, AIR CONDITIONING OPERATION

Title (de)

VERFAHREN UND AUSRÜSTUNG ZUR VERWIRKLICHUNG DES NULL-ENERGIE-BETRIEBS VON HEIZUNG, LÜFTUNG, KLIMATISIERUNG

Title (fr)

PROCESSUS ET ÉQUIPEMENT POUVANT RÉALISER UNE OPÉRATION DE CHAUFFAGE, VENTILATION, CLIMATISATION À ÉNERGIE NULLE

Publication

**EP 3329189 A4 20190313 (EN)**

Application

**EP 16830942 A 20160729**

Priority

- SG 10201505956Y A 20150729
- SG 2016050370 W 20160729

Abstract (en)

[origin: WO2017018948A1] Process and equipment for managing air properties allowing to achieve Zero-Energy HVAC operation allowing 24/7 air recycling capability with up to 100% re-feed capability independent of internal and external factory air conditions with air humidity controller or with dedicated air humidity controllers for both factory air and process air.

IPC 8 full level

**F24F 12/00** (2006.01); **F24F 1/0071** (2019.01); **F24F 8/108** (2021.01); **F28D 9/00** (2006.01)

CPC (source: EP US)

**F24F 1/0007** (2013.01 - EP US); **F24F 1/00075** (2019.01 - EP US); **F24F 1/0071** (2019.01 - EP US); **F24F 3/044** (2013.01 - EP US); **F24F 3/14** (2013.01 - US); **F24F 8/108** (2021.01 - EP US); **F24F 13/30** (2013.01 - US); **F28D 9/0037** (2013.01 - EP US); **Y02B 30/54** (2013.01 - US)

Citation (search report)

- [XI] JP S60105845 A 19850611 - TAIKISHA KK
- [XI] US 2012167600 A1 20120705 - DUNNAVANT BRYAN KEITH [US]
- [XI] GB 2464284 A 20100414 - HEWLETT PACKARD DEVELOPMENT CO [US]
- See references of WO 2017018948A1

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)

**WO 2017018948 A1 20170202**; CN 108139109 A 20180608; CN 108139109 B 20210921; EP 3329189 A1 20180606; EP 3329189 A4 20190313; JP 2018528379 A 20180927; US 2018149386 A1 20180531

DOCDB simple family (application)

**SG 2016050370 W 20160729**; CN 201680057113 A 20160729; EP 16830942 A 20160729; JP 2018504283 A 20160729; US 201815881578 A 20180126