

Title (en)

DIFFUSION UNIT FOR THE AIR-CONDITIONING OF AN INDOOR ENVIRONMENT

Title (de)

DIFFUSIONEINHEIT ZUR KLIMATISIERUNG EINES INNENRAUMS

Title (fr)

UNITÉ DE DIFFUSION D'AIR POUR LE CONDITIONNEMENT D'AIR DANS UN ENVIRONNEMENT INTÉRIEUR

Publication

**EP 3286502 B1 20231018 (EN)**

Application

**EP 16719914 A 20160415**

Priority

- IT VR20150064 A 20150420
- IB 2016052156 W 20160415

Abstract (en)

[origin: WO2016170456A1] A diffusion unit (U) for summer and/or winter air-conditioning of indoor environments comprises a frame (2) suitable to be mounted on wall; a monocoque bodyshell structure (3) suitable to be attached to said frame (2), said monocoque bodyshell structure (3) being entirely made of polystyrene or equivalent material; heat exchanger means (4) suitable to be supported by said bodyshell structure (3) and enclosed by said monocoque structure (3) without outwards heat dispersion areas, said exchanger means (4) comprising at least one exchanger (4) with microchannel technology using water (monophase fluid); ventilating means (7) and filtering means (10); and an outer protecting and covering structure (S) provided at the front with a array (G) of holes (F) for air-conditioned diffusion.

IPC 8 full level

**F24F 5/00** (2006.01); **F24F 1/0043** (2019.01); **F24F 13/20** (2006.01); **F28D 1/02** (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP US)

**F24F 1/0043** (2019.01 - EP US); **F24F 13/20** (2013.01 - EP); **F24F 2005/006** (2013.01 - EP); **F28D 1/05366** (2013.01 - EP); **F28D 2001/0286** (2013.01 - EP); **F28F 2250/08** (2013.01 - EP); **F28F 2260/02** (2013.01 - EP)

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 2016170456 A1 20161027**; EP 3286502 A1 20180228; EP 3286502 B1 20231018; EP 3286502 C0 20231018; IT VR20150064 A1 20161020

DOCDB simple family (application)

**IB 2016052156 W 20160415**; EP 16719914 A 20160415; IT VR20150064 A 20150420