

Title (en)
A FAN UNIT

Title (de)
LÜFTEREINHEIT

Title (fr)
UNITÉ DE VENTILATEUR

Publication
EP 4356008 A1 20240424 (EN)

Application
EP 22733454 A 20220617

Priority
• EP 21180023 A 20210617
• EP 2022066559 W 20220617

Abstract (en)
[origin: WO2022263629A1] The present disclosure provides a fan unit comprising a circumferential edge forming an aperture and an impeller arranged to establish a flow through the aperture. The impeller comprises a hub which is adapted for rotation about a rotation axis, and which carries a plurality of blades. Each blade extends in a radial direction between the hub and a ring element, where the ring element comprises an outer surface facing an inner surface of the circumferential edge. The circumferential edge comprises a plurality of diffusion elements arranged in the aperture off-set axially relative to the impeller, where the diffusion elements extend from a centre part non-rotational arranged about the rotation axis to the inner surface of the circumferential edge. One of the outer surface and the inner surface comprises a first wall portion projecting upwards from the corresponding one of the inner and outer surfaces, and terminates in a first free end. The first wall portion extends circumferentially around the ring element. The other one of the outer surface and the inner surface forms a first groove circumferentially along the corresponding one of the inner and outer surfaces, and the first wall portion and the first groove face each other.

IPC 8 full level
F04D 29/16 (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP KR)
F04D 29/164 (2013.01 - EP KR); **F04D 29/326** (2013.01 - EP KR)

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022263629 A1 20221222; EP 4356008 A1 20240424; JP 3247021 U 20240610; KR 20240000317 U 20240220

DOCDB simple family (application)
EP 2022066559 W 20220617; EP 22733454 A 20220617; JP 2023600175 U 20220617; KR 20247000005 U 20220617