

Title (en)
A FAN UNIT

Title (de)
LÜFTEREINHEIT

Title (fr)
UNITÉ DE VENTILATEUR

Publication
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Application
EP 22733454 A 20220617

Priority
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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.

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