

Title (en)
ROTARY ROOF VENT

Title (de)
DREHBARE DACHENTLÜFTUNG

Title (fr)
DÉFLECTEUR ORIENTABLE

Publication
EP 4253852 A1 20231004 (EN)

Application
EP 21898795 A 20211118

Priority
• RU 2020139235 A 20201130
• RU 2021050382 W 20211118

Abstract (en)
The proposed utility model relates to radial-flow devices for smoke extraction and exhaust air ventilation, and more particularly to radial-flow (centrifugal) ventilators for smoke extraction and ventilation which can be installed on the roofs of buildings and provide for the extraction by natural draft of smoke, gases and air from the premises of a building in the event of a fire or of gas contamination. A rotary roof vent comprises a base, an impeller, a shaft on which a ring with blades rotates, and a cover; the impeller is configured as a single piece and is comprised of a ring provided with stiffening ribs and having blades arranged along its edges, and disposed in the central part is a hollow sleeve for mounting on the shaft, wherein the blades are scooped, at the end of each blade is a protuberance at an acute angle, and on the inner side of the blade, closer to the centre, is a protuberance at an obtuse angle to the blade, wherein the blades project into the interior of the impeller by 20% relative to the diameter of the base, the stiffening ribs of the impeller are arc-shaped and replicate the contour of the blades, the cover is outwardly convex, and a sleeve for fastening on the shaft is disposed in the centre thereof. The technical result is that of providing improved technical and performance characteristics, and also expanding the existing range of technical means.

IPC 8 full level
F24F 7/00 (2021.01)

CPC (source: EP)
F24F 7/02 (2013.01); **F24F 13/065** (2013.01)

Citation (search report)
See references of WO 2022115003A1

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KH MA MD TN

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