

Title (en)
VENTILATION DEVICE EQUIPPED WITH A CASING SHAPED AS A VOLUTE HOUSING

Title (de)
BELÜFTUNGSVORRICHTUNG MIT EINEM GEHÄUSE IN FORM EINES SPIRALGEHÄUSES

Title (fr)
DISPOSITIF DE VENTILATION ÉQUIPÉ D'UN BOÎTIER CONFORME EN VOLUTE

Publication
EP 2872783 A1 20150520 (FR)

Application
EP 13729333 A 20130617

Priority
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• EP 2013062475 W 20130617

Abstract (en)
[origin: WO2014009103A1] Ventilation device (10) comprising a turbine (12) mounted inside a casing (14) shaped radially as a volute housing, the peripheral wall (22) of the casing (14) diverging gradually away from the periphery of the turbine (12) from a volute tongue (24) to a distal end (E2) of the volute, the radial expansion of the volute being defined by an angle of expansion (a), characterized in that the initial angle of expansion (a) near the volute tongue (24) is 1.5 times to 3 times higher than the final angle of expansion (a2) near the distal end (E2) of the volute, such that the peripheral wall (22) of the casing (14) diverges more rapidly from the vanes at the start of the volute thereby minimizing the turbulence generated at the volute tongue (24).

IPC 8 full level
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