

Title (en)
ELECTRICAL CENTRIFUGAL FAN WITH SPECIAL GEOMETRIC DIMENSIONS

Title (de)
ELEKTRISCHER RADIALLÜFTER MIT BESONDEREN GEOMETRISCHEN ABMESSUNGEN

Title (fr)
SOUFFLEUR CENTRIFUGE ÉLECTRIQUE AVEC DES DIMENSIONS GÉOMÉTRIQUES PARTICULIÈRES

Publication
EP 3211242 A1 20170830 (EN)

Application
EP 17155566 A 20170210

Priority
IT UB20160970 A 20160223

Abstract (en)
A centrifugal electrical fan (1) comprises a rotor (3) disposed in a body (2) with a deflector (5) in an inlet mouth (22); the rotor (3) has a radius (R0) and a center (P0) that is the origin of a system of two Cartesian axes (X, Y); the internal surface (55) of the deflector has a (54) circular arc section having a radius of curvature (R4) and a center (P4) spaced from said center (P0) of the rotor in the direction of the axis of abscissas (X) towards the reflector (5), the ratio between the radius of curvature (R4) of the circular arc section (54) of the deflector and the radius (R0) of the rotor is given by $R D = R4/R0 = 1.053 \pm 5\%$.

IPC 8 full level
F04D 29/28 (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)
F04D 29/283 (2013.01); **F04D 29/422** (2013.01); **F04D 29/424** (2013.01)

Citation (applicant)
DE 1050015 B 19590205 - EASY WASHING MACHINE COMPANY L

Citation (search report)
• [A] DE 1050015 B 19590205 - EASY WASHING MACHINE COMPANY L
• [A] US 2012111045 A1 20120510 - IKEDA TAKASHI [JP], et al

Designated contracting state (EPC)
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