

Title (en)  
RADIAL FAN

Title (de)  
RADIALLÜFTER

Title (fr)  
VENTILATEUR RADIAL

Publication  
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Application  
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Abstract (en)  
[origin: WO2018184946A1] The invention relates to a radial fan comprising: a fan impeller (2) which can rotate about an axis (1) and which comprises a base plate (29) and air blades (31) protruding from the base plate (29), the air blades (31) each having an upstream edge (32) at a first distance (r1) from the axis (1) and a downstream edge (33) at a second distance (r2) from the axis (1); and an end wall (15) which together with the base plate (29) delimits a flow channel (30) with which the air blades (31) engage. The cross-sectional area (A) of the flow channel (30) attains a maximum between the upstream (32) and the downstream edge (33) at a third distance (r3) from the axis (1). The difference between a fourth (r4) and a fifth distance (r5), at which distances the cross-sectional area (A) attains minima most closely adjacent to the maximum, is at least half the difference (r2-r1) between the first and the second distance.

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