

Title (en)  
AXIAL FAN

Publication  
**EP 0358731 B1 19910918 (DE)**

Application  
**EP 89901524 A 19890130**

Priority  
DE 3804217 A 19880211

Abstract (en)  
[origin: WO8907717A1] An axial fan, preferably for cooling an internal combustion engine in a motor vehicle, comprises an intake frame (2b) arranged in front of the impeller (12) when viewed in the direction of flow of the medium and a ring (20) arranged at the free ends of the impeller blades and surrounding the blade ring. The face of the ring (20) exposed to the flow is flared like a funnel, so that an axial gap (28) is created between the frame (26) and the ring (20). To obtain a particularly quiet axial fan, even in the absence of relatively close tolerances between impeller (12) and intake frame (26), the fan is provided with an outer ring (30) extending from the intake frame (26) in the direction of flow of the medium at least as far as the funnel rim (32) of the impeller ring, so as to create a radial gap (34) between the impeller ring and the outer ring (30).

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**F01P 5/06**; **F04D 29/54**

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