

Title (en)
Axial fan

Title (de)
Axiallüfter

Title (fr)
Ventilateur axial

Publication
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Application
EP 04106529 A 20041213

Priority
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Abstract (en)
The present invention relates to a multiple sweep axial fan for producing axial gas flow in the direction of center of rotation. The term multiple sweep indicates a number of different sections along the leading edge and trailing edge of blades of the fan. The fan can be designed as a back skewed or front skewed low noise fan. Each blade of the fan has starting at its first end secured on the hub, a first section in which the leading edge of the blade is defined by a concave arc and at least one other section along which the leading edge is defined by a convex arc between the first section and the second end of said blade.

IPC 8 full level
F04D 29/38 (2006.01); **F04D 29/32** (2006.01)

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F04D 29/326 (2013.01); **F04D 29/386** (2013.01)

Citation (search report)
• [XY] US 4737077 A 19880412 - VERA JEAN-CLAUDE [FR]
• [Y] EP 0947704 A2 19991006 - GATE SPA [IT]
• [Y] US 6368061 B1 20020409 - CAPDEVILA HUGO [DE]
• [X] US 5961289 A 19991005 - LOHMANN DIETER [DE]
• [X] US 2003012656 A1 20030116 - CHO KYUNG SEOK [KR], et al

Cited by
US11143195B2; WO2019090243A1; JP2015183605A; JP2014066187A; CN103161755A; CN106762823A; CN107477022A; CN106133330A; EP3707388A4; CN114962325A; US10670044B2; WO2022113631A1; WO2015146013A1; WO2016142255A1

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