

Title (en)
Blower

Title (de)
Gebläse

Title (fr)
Ventilateur

Publication
EP 1703138 A2 20060920 (EN)

Application
EP 06003542 A 20060222

Priority
JP 2005048370 A 20050224

Abstract (en)
A blower includes a multiblade fan (3) and a scroll casing (4) accommodating the multiblade fan (3) therein. The scroll casing (4) has two side walls (13) opposed to each other, a curved peripheral wall (12a, 12b), and a tongue (9) continuous with the curved peripheral wall (12a, 12b). The scroll casing (4) also has an intake opening defined in one of the two opposed side walls (13) and a discharge opening (8) delimited by the two side walls (13), the curved peripheral wall (12a, 12b), and the tongue (9). The curved peripheral wall (12a, 12b) has a first peripheral wall (12a) continuous with the tongue (9) and a second peripheral wall (12b) formed on a downstream side of the first peripheral wall (12a) with respect to the direction of travel of air so as to be continuous with the first peripheral wall (12a). The first peripheral wall (12a) is concentric with the multiblade fan (3) and has a constant radius of curvature, while the second peripheral wall (12b) has an expansion angle such that a distance (L) between a center (11) of the multiblade fan (3) and the second peripheral wall (12b) increases towards the discharge opening (8).

IPC 8 full level
F04D 29/44 (2006.01)

CPC (source: EP)
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EP2314880A4; US2014314558A1; US9322408B2; EP2757269A3

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