

Title (en)
Airfoil

Title (de)
Schaufelblatt

Title (fr)
Profil d'aube

Publication
EP 1927724 B1 20150909 (DE)

Application
EP 07120051 A 20071106

Priority
DE 102006055869 A 20061123

Abstract (en)
[origin: EP1927724A2] The method involves defining a skeleton curve by a skeleton line angle over a chord length, leading edge (2), blade height (h) and a blade spike (6). The curve is run in a blade profile section, which is present in an area running out of the blade spike up to 30 percentages of the blade height, in a sectional line angle distribution area lying between upper and lower limit curves. A pressure load is produced along a blade surface in the distribution area. Dimensionless skeleton line angles at a position of the chord length are provided for the limit curves from a specific formula.

IPC 8 full level
F01D 5/14 (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)
F01D 5/141 (2013.01 - EP US); **F01D 9/041** (2013.01 - EP US); **F04D 29/324** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US); **F05D 2250/74** (2013.01 - EP US); **Y10S 416/02** (2013.01 - EP US); **Y10S 416/05** (2013.01 - EP US)

Cited by
EP3730801A4; EP2275643A3; FR2991373A1; EP3839212A1; US11203945B2; US11333164B2; WO2013178914A1; WO2021121458A1; EP2921648B1

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DOCDB simple family (application)
EP 07120051 A 20071106; DE 102006055869 A 20061123; US 98482607 A 20071121