Title (en)

Rotor blade for a ninth phase of a compressor

Title (de)

Rotorblatt für die neunte Phase eines Kompressors

Title (fr)

Pale de rotor de la neuvième phase d'un compresseur

Publication

EP 1826413 A3 20100922 (EN)

Application

EP 07103096 A 20070227

Priority

IT MI20060341 A 20060227

Abstract (en)

[origin: EP1826413A2] The invention relates to a blade (10) of a rotor of a ninth phase of a compressor, which can be defined by coordinates of a discreet combination of points, in a Cartesian reference system (X,Y,Z), wherein the axis (Z) is a radial axis intersecting the central axis of the compressor, said blade (10) having a profile which can be identified by means of a series of closed intersection curves between the profile itself and planes (X,Y) lying at distances (Z) from the central axis, said blade (10) also comprising a thickening (30), substantially parallel to a base portion (12) of the blade (10) itself, fixable to said rotor, said thickening (30) being substantially situated half-way up the blade (10) and being suitable for shifting the natural resonance frequencies of the blade (10) itself outside a functioning frequency range of said rotor.

IPC 8 full level

F04D 29/32 (2006.01); **F01D 5/16** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP KR)

F04D 29/32 (2013.01 - KR); **F04D 29/324** (2013.01 - EP); **F04D 29/38** (2013.01 - KR); **F04D 29/666** (2013.01 - EP)

Citation (search report)

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EP 07103096 A 20070227; AT 07103096 T 20070227; CA 2579387 A 20070222; CN 200710084354 A 20070227; IT MI20060341 A 20060227; JP 2007047168 A 20070227; KR 20070019107 A 20070226; NO 20071076 A 20070226