

Title (en)

PROFILING OF INLET GUIDE VANES OF RADIAL COMPRESSORS

Title (de)

PROFILIERUNG VON LEITSCHAUFELN VON EINTRITTSLEITAPPARATEN BEI RADIALVERDICHTERN

Title (fr)

PROFILAGE D'AUBES DIRECTRICES DE DISPOSITIFS DIRECTEURS POUR COMPRESSEURS RADIALES

Publication

EP 3183427 A1 20170628 (DE)

Application

EP 15775196 A 20151005

Priority

- DE 102014221362 A 20141021
- EP 2015072915 W 20151005

Abstract (en)

[origin: WO2016062531A1] The invention relates to a stator (1) for a turbomachine (10), in particular a compressor (10), and to a turbomachine (10) comprising an entry stator (1) of this type. The stator (1) has at least one blade (4) comprising a vane (3) around which a fluid (2) can flow. In order to increase the efficiency of the turbomachine (10), a curvature (5) of a profile centre line (6) of the vane (3) has at least one inflection point (7).

IPC 8 full level

F01D 9/04 (2006.01); **F01D 5/14** (2006.01); **F01D 17/16** (2006.01); **F04D 29/46** (2006.01)

CPC (source: CN EP RU US)

F01D 5/141 (2013.01 - EP RU US); **F01D 9/041** (2013.01 - US); **F01D 17/162** (2013.01 - RU); **F01D 17/165** (2013.01 - CN EP US); **F04D 29/242** (2013.01 - US); **F04D 29/284** (2013.01 - US); **F04D 29/287** (2013.01 - US); **F04D 29/30** (2013.01 - US); **F04D 29/462** (2013.01 - CN EP RU US); **F04D 29/563** (2013.01 - CN); **F05D 2220/40** (2013.01 - CN EP US); **F05D 2250/51** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102014221362 A1 20160421; CN 107109960 A 20170829; CN 107109960 B 20190709; EP 3183427 A1 20170628; EP 3183427 B1 20190612; RU 2017117286 A 20181123; RU 2674844 C2 20181213; US 10634156 B2 20200428; US 2017306972 A1 20171026; WO 2016062531 A1 20160428

DOCDB simple family (application)

DE 102014221362 A 20141021; CN 201580057843 A 20151005; EP 15775196 A 20151005; EP 2015072915 W 20151005; RU 2017117286 A 20151005; US 201515517347 A 20151005