

Title (en)

Multivane variable stator arrangement for turbomachine

Title (de)

Mehrschaufelige Verstellstatoreinheit einer Strömungsarbeitsmaschine

Title (fr)

Tuyère d'éjection à géométrie variable à aubes multiples pour turbomachine

Publication

EP 2189664 A3 20151104 (DE)

Application

EP 09012043 A 20090922

Priority

DE 102008058014 A 20081119

Abstract (en)

[origin: EP2189664A2] The machine has a main flow path limited by a hub (3) and a housing (2), and a row of adjustable stator blades (1) arranged in the main flow path. A multi-blade adjusting stator unit is arranged at the hub or at the housing. The stator blades are connected with a common rotating plate (5) and are rotated around a common rotational axis (4) during adjustment of the adjusting stator unit. The stator blades are arranged at a distance from one another and are formed with different shapes with respect to one of parameters such as profile depth, relative curve and stagger angle.

IPC 8 full level

F04D 29/56 (2006.01); **F04D 29/64** (2006.01)

CPC (source: EP US)

F01D 5/146 (2013.01 - EP US); **F01D 17/162** (2013.01 - EP US); **F04D 29/563** (2013.01 - EP US); **F04D 29/644** (2013.01 - EP US)

Citation (search report)

- [XAI] US 3069070 A 19621218 - MACALUSO CHARLES A, et al
- [XAI] CH 492130 A 19700615 - ESCHER WYSS AG [CH]
- [A] DE 2835349 B1 19790426 - MTU MUENCHEN GMBH [DE]

Cited by

EP3686396A1; FR2998012A1; CN104884816A; RU2651103C2; US11280212B2; US10352179B2; WO2014072642A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

EP 09012043 A 20090922; DE 102008058014 A 20081119; US 60963309 A 20091030