

Title (en)
Vane ring of a gas turbine

Title (de)
Turbinenleitrad einer Gasturbine

Title (fr)
Roue statorique d'une turbine à gaz

Publication
EP 2846000 A3 20150429 (DE)

Application
EP 14184094 A 20140909

Priority
DE 102013217997 A 20130909

Abstract (en)
[origin: US2015071777A1] A turbine stator wheel of a gas turbine with a plurality of stator vanes spaced apart around the circumference is provided. Two adjacent stator vanes form a passage each between the suction side of the one stator vane and the pressure side of the other stator vane starting from the vane trailing edge, which includes a constant passage portion in which the passage has a substantially constant passage cross-section. The constant passage portion has an inlet area and an outlet area. Each stator vane forms on the pressure side a rear area that extends, starting from the vane trailing edge adjoining the constant passage portion as far as the inlet area of the passage portion, and on the pressure-side forms a front area that extends upstream of the rear area. Each stator vane has on the pressure side a convex pressure-side contour.

IPC 8 full level
F01D 5/14 (2006.01)

CPC (source: EP US)
F01D 5/141 (2013.01 - EP US); **F01D 9/041** (2013.01 - US); **F05D 2240/122** (2013.01 - EP US); **F05D 2240/123** (2013.01 - EP US); **F05D 2240/304** (2013.01 - EP US); **F05D 2240/305** (2013.01 - EP US); **F05D 2250/711** (2013.01 - EP US); **F05D 2250/713** (2013.01 - EP US)

Citation (search report)
• [XD] DE 102005025213 A1 20061207 - HONDA MOTOR CO LTD [JP]
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• [X] DE 10054244 A1 20020613 - HONDA MOTOR CO LTD [JP]
• [I] DE 102009036406 A1 20110210 - MTU AERO ENGINES GMBH [DE]
• [X] EP 1522679 A2 20050413 - ROLLS ROYCE PLC [GB]

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CN109763928A

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

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DOCDB simple family (application)
EP 14184094 A 20140909; US 201414479978 A 20140908