

Title (en)

Bladed stator stage of a compressor, corresponding compressor and method of retention of vanes in such a stator stage

Title (de)

Leitschaufelstufe eines Verdichters, entsprechender Verdichter und Verfahren zur Sicherung von Schaufeln in einer solchen Leitschaufelstufe

Title (fr)

Étage redresseur de compresseur, compresseur associé et procédé de rétention d'aubes dans un tel étage redresseur

Publication

EP 2204546 B1 20120307 (FR)

Application

EP 08172916 A 20081224

Priority

EP 08172916 A 20081224

Abstract (en)

[origin: EP2204546A1] The stage has series of vanes (3), whose heads (4) are fixed at an external shell (1), and feet (5) are fixed at an internal shell (2). The internal shell comprises a series of cutouts receiving the feet, where the feet are projected towards an internal face of the internal shell. Spiral rings (6, 6') are housed in an opening of the each vane to prevent the feet of the vane from being pulled out from the cutouts, respectively, and to form a connection between the feet, where the rings are made of spring steel. Independent claims are also included for the following: (1) a method for holding vanes of a rectifier stage of a compressor of an axial turbomachine (2) a method for fixing heads of vanes to an external shell.

IPC 8 full level

F01D 9/04 (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)

F01D 9/042 (2013.01 - EP US); **F01D 21/045** (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US); **Y10T 29/49947** (2015.01 - US)

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DOCDB simple family (publication)

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