

Title (en)

GUIDE BLADE ASSEMBLY FOR AN AXIAL FLOW MACHINE AND METHOD FOR LAYING THE GUIDE BLADE ASSEMBLY

Title (de)

LEITSCHAUFELKRANZ FÜR EINE AXIALSTRÖMUNGSMASCHINE UND VERFAHREN ZUM AUSLEGEN DES LEITSCHAUFELKRANZES

Title (fr)

STATOR POUR UNE TURBOMACHINE AXIALE ET PROCÉDÉ DE DIMENSIONNEMENT DU STATOR

Publication

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Application

EP 13717223 A 20130405

Priority

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Abstract (en)

[origin: EP2653658A1] The method involves arranging multiple guide blades (3,4) regularly around the circumference of a guide blade ring (2) in an axial flow rotary machine (1), according to aerodynamic and mechanical boundary conditions. One profile section of the blades is moved to the circumferential direction of the blade ring, such that a pitch angle of the blades varies along the height of multiple blades of a rotor blade ring. A downstream discharge flow of working fluid is irregularly carried out through a channel (14) formed between the blades, such that oscillation excitation of the blades is low.

IPC 8 full level

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CPC (source: EP US)

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