

Title (en)

SYSTEM AND METHOD TO ALIGN VARIABLE DIFFUSER VANE WITH DIRECTION OF FLOW OF WORKING FLUID

Title (de)

SYSTEM UND VERFAHREN ZUM AUSRICHTEN EINER VARIABLEN DIFFUSORSCHAUFEL MIT DER STRÖMUNGSRICHTUNG EINER ARBEITSFLÜSSIGKEIT

Title (fr)

SYSTÈME ET PROCÉDÉ POUR ALIGNER UNE AUBE DE DIFFUSEUR À INCIDENCE VARIABLE SUR LA DIRECTION D'ÉCOULEMENT D'UN FLUIDE DE TRAVAIL

Publication

**EP 2890897 A1 20150708 (EN)**

Application

**EP 13756234 A 20130820**

Priority

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- US 2013055738 W 20130820

Abstract (en)

[origin: WO2014035726A1] Embodiments of systems and methods permit use of variable diffuser vanes in multistage compressor devices. These embodiments deploy a flow sensor to identify the direction of flow for a working fluid that transits the stages of the compressor device. In one embodiment, the flow sensor generates a signal, which a controller processes to align a variable diffuser vane with the direction of flow of the working fluid. This configuration preempts the operational difficulties of previous designs by providing independent control over the diffuser vanes in the individual stages of the multi-stage compressor device.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014035726A1

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