

Title (en)

TURBINE AND METHOD FOR EXPANDING AN OPERATING FLUID WITH HIGH ISENTROPIC ENTHALPY DROP

Title (de)

TURBINE UND VERFAHREN ZUM EXPANDIEREN EINES BETRIEBSFLUIDS MIT HOHEM ISENTROPISCHEN ENTHALPIE GEFÄLLE

Title (fr)

TURBINE ET PROCÉDÉ D'EXPANSION D'UN FLUIDE DE TRAVAIL AVEC DESCENTE D'ENTHALPIE ISENTROPIQUE ÉLEVÉ

Publication

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Application

EP 15736632 A 20150615

Priority

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Abstract (en)

[origin: WO2016005834A1] A turbine is described for the expansion of a compressible operating fluid, for example gas or steam. The turbine comprises a first group of stages, named stages of first expansion, that extends in a radial centripetal direction in order to carry out a first centripetal expansion and a second group of stages, named stages of second expansion, that extends downstream of the stages of first expansion in order to carry out a second centrifugal expansion. The arrays of rotor blades of the stages of first expansion are constrained to a first shaft and the arrays of rotor blades of the stages of second expansion are constrained to a second shaft coaxial with respect to the first shaft, and are interposed between additional arrays of rotor blades constrained to the first shaft. The first shaft rotates at a speed higher than the second shaft, and in an opposite way. The rotors carrying the arrays of rotor blades are constrained in a 'cantilevered' configuration to the respective shafts at an end thereof.

IPC 8 full level

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Citation (search report)

See references of WO 2016005834A1

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