

Title (en)

Directing vanes for diverging channels in steam turbines.

Title (de)

Leitschaufeln für divergente Kanäle in Dampfturbinen.

Title (fr)

Aubage directeur pour veines divergentes de turbine à vapeur.

Publication

EP 0064679 A1 19821117 (FR)

Application

EP 82103671 A 19820429

Priority

FR 8108884 A 19810505

Abstract (en)

[origin: US4470755A] A guide blade set for diverging jet streams in a steam turbine which has blades (2, 2') whose concave and convex surfaces are orthogonal firstly to the jet stream floor plate (3) and secondly to the jet stream passage ceiling plate (4) at their respective ends. Efficiency is improved by reducing losses in the neighbourhood of the jet stream ceiling plate.

Abstract (fr)

Aubage directeur pour veines divergentes de turbine à vapeur comportant des aubes (2, 2') dont les surfaces de l'extrados et de l'intrados sont orthogonales d'une part au plancher (3) de la veine et d'autre part au plafond (4) de la veine. Le rendement est amélioré par la diminution des pertes au voisinage du plafond de la veine.

IPC 1-7

F01D 9/04; **F01D 5/14**

IPC 8 full level

F01D 9/02 (2006.01); **F01D 5/14** (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)

F01D 5/141 (2013.01 - EP US); **F01D 5/142** (2013.01 - EP US); **Y10S 415/914** (2013.01 - EP US)

Citation (search report)

- [A] FR 1499693 A 19671027 - BRISTOL SIDDELEY ENGINES LTD
- [A] US 2029813 A 19360204 - DE MEY RENE
- [A] FR 1037610 A 19530922 - ROLLS ROYCE
- [A] FR 2365692 A1 19780421 - KRONOGARD SVEN [SE]

Cited by

FR2574114A1; EP0089600A1; EP3828390A1; US7740347B2; US11629599B2

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