

Title (en)  
TURBINE STAGE.

Title (de)  
TURBINENSTUFE.

Title (fr)  
ETAGE DE TURBINE.

Publication  
**EP 0068002 A1 19830105 (FR)**

Application  
**EP 82900113 A 19811230**

Priority  
FR 8100039 A 19810105

Abstract (en)  
[origin: WO8202418A1] Turbine stage comprising a fixed rack (204) followed by a moving rack (205) comprising blades (206, 207) mounted between a floor (201, 211) and a ceiling (202, 212). The surfaces of the ceiling (202, 212) and/or the floor (201, 211) admit as the meridian line sine curves of which the maximum for that of the ceiling (202, 212), the maximum or the minimum for that of the floor (201, 211) are in the inter-rack plane. The curvature of this sine curve at the outlet of the fixed rack (204) is calculated so as to make the tangential and radial static pressure gradients at the ceiling and/or the floor at the outlet of the fixed rack (204) equal. The disturbances are confined in restricted areas, which improves the output of the stage.

Abstract (fr)  
Etage de turbine comportant une grille fixe (204) suivi d'une grille mobile (205) comportant des aubes (206, 207) montees entre un plancher (201, 211) et un plafond (202, 212). Les surfaces du plafond (202, 212) et/ou du plancher (201, 211) admettent pour meridienne des sinusoides dont le maximum pour celle du plafond (202, 212), le maximum ou le minimum pour celle du plancher (201, 211) se situent dans le plan intergrille. La courbure de cette sinusoide a la sortie de la grille fixe (204) est calculee de facon a obtenir l'egalite entre les gradients de pression statique tangentiel et radial au plafond et/ou au plancher a la sortie de la grille fixe (204). Les perturbations sont confinee dans des zones restreintes ce qui ameliore le rendement de l'etage.

IPC 1-7  
**F01D 5/14**

IPC 8 full level  
**F01D 1/20** (2006.01); **F01D 5/14** (2006.01); **F01D 9/02** (2006.01); **F01D 1/26** (2006.01)

CPC (source: EP US)  
**F01D 1/20** (2013.01 - EP US); **F01D 5/143** (2013.01 - EP US); **F01D 5/145** (2013.01 - EP US); **F05D 2200/261** (2013.01 - EP US); **F05D 2200/262** (2013.01 - EP US); **F05D 2200/264** (2013.01 - EP US); **Y10S 415/914** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**WO 8202418 A1 19820722**; AT E12291 T1 19850415; DE 3169495 D1 19850425; EP 0068002 A1 19830105; EP 0068002 B1 19850320; IT 1154402 B 19870121; IT 8267002 A0 19820104; JP H023003 B2 19900122; JP S57502074 A 19821118; US 4778338 A 19881018; US 4832567 A 19890523; ZA 8234 B 19821124

DOCDB simple family (application)  
**FR 8100172 W 19811230**; AT 82900113 T 19811230; DE 3169495 T 19811230; EP 82900113 A 19811230; IT 6700282 A 19820104; JP 50021882 A 19811230; US 21499288 A 19880701; US 41425382 A 19820812; ZA 8234 A 19810105