

Title (en)  
AXIAL TURBINE

Publication  
**EP 0417433 B1 19930609 (DE)**

Application  
**EP 90113994 A 19900721**

Priority  
CH 332289 A 19890912

Abstract (en)  
[origin: EP0417433A1] An axial turbine, to whose exhaust rotor blades (12) a diffuser (13) is connected, has first means for absorbing vortex movement (8) of the flow which contains vortices within its deceleration zone. <??>A row of adjustable stator blades (11) is arranged between these first means for absorbing vortex movement, in the form of flow ribs, and the exhaust rotor blades. These stator blades (11) have a straight mean camber line with a symmetrical profile, run conically in the radial direction and are twisted. <??>As a result of this measure, in addition to considerably improved pressure recovery over a large load range, it is also possible to prevent the eddies which normally occur between rotor blades and flow ribs. <IMAGE>

IPC 1-7  
**F01D 25/30; F03B 13/08**

IPC 8 full level  
**F01D 9/02** (2006.01); **F01D 17/16** (2006.01); **F01D 25/30** (2006.01)

CPC (source: EP US)  
**F01D 17/162** (2013.01 - EP US); **F01D 25/30** (2013.01 - EP US)

Cited by  
EP3147458A1; EP1245784A3; EP0581978A1; US5338155A; EP0589215A1; DE4232088A1; US5346365A; WO9920874A1; US8474266B2; US8893511B2; US9441502B2

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