

Title (en)
Wall contour for an axial turbomachine

Title (de)
Wandkontur für eine axiale Strömungsmaschine

Title (fr)
Contour de paroi pour une turbomachine axiale

Publication
EP 0799973 B1 20020703 (DE)

Application
EP 96810199 A 19960401

Priority
EP 96810199 A 19960401

Abstract (en)
[origin: EP0799973A1] The rotor-sided and/or stator-sided flow-defining wall (10,11) of the channel is angled at the discharge end of the rotor blades (La1,La2,La3). The angle is dimensioned, so that total pressure and outflow angle of the flow coming from the rotor blades are homogenised. The wall has an additional counter angle (B,BB) approx. near the intake area of the guide blades (Le2,Le3,Le4) of the following stage. On the stator side, the wall is formed by the foot plates (13) of these guide blades, which face the flow channel. Behind the angle, the wall extends mainly in the plane of the rotor blade intake, so that it has a common point (P) with the original straight outer channel contour (51).

IPC 1-7
F01D 9/04

IPC 8 full level
F01D 9/04 (2006.01); **F01D 5/14** (2006.01)

CPC (source: EP US)
F01D 5/143 (2013.01 - EP US); **Y10S 415/914** (2013.01 - EP)

Cited by
EP0943784A1; DE102011076804B4; EP0982475A1; WO2009016657A1; DE102014225689A1; DE10019546B4; DE102011076804A1; DE102005046721B3; EP1898054A1; EP0894945A3; EP0894944A1; US5997249A; EP2003292A3; US6575693B2; WO0181731A1; WO2011054341A3; US8602729B2; EP0894945A2; US8182211B2; EP3043022A1; US10570743B2

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