

Title (en)
AXIAL TURBINE FOR A TURBO CHARGER

Publication
EP 0131736 B1 19870121 (DE)

Application
EP 84106485 A 19840606

Priority
CH 355983 A 19830629

Abstract (en)
[origin: US4648790A] In an axial turbine for exhaust gas turbochargers, the inner wall of the rotationally symmetrical exhaust gas deflection duct is designed as a deflection collar rigidly connected to the turbocharger shaft and rotating with it. The outer diameter of the deflection collar is greater than the diameter of the turbine disc and, at maximum, equal to the outer diameter of the turbine rotor. An element for contactless sealing of the exhaust gas deflection duct is provided between the rotating deflection collar and the casing. The element for contactless sealing of the deflection duct preferably consists of two labyrinth seals located on a cylindrical surface opening inwards, the sealing air being supplied radially from within between the labyrinth seals by means of a sealing air duct.

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IPC 8 full level
F02B 39/00 (2006.01); **F01D 5/00** (2006.01); **F01D 5/02** (2006.01); **F01D 5/04** (2006.01); **F01D 5/08** (2006.01); **F01D 11/02** (2006.01); **F02B 37/00** (2006.01); **F02C 6/12** (2006.01)

CPC (source: EP KR US)
F01D 5/00 (2013.01 - EP US); **F01D 5/045** (2013.01 - EP US); **F01D 5/081** (2013.01 - EP US); **F01D 15/00** (2013.01 - KR); **F05D 2220/40** (2013.01 - EP US)

Citation (examination)
EP 0093462 A1 19831109 - BBC BROWN BOVERI & CIE [CH]

Cited by
CN105745431A; EP3012417A4; EP2154348A3; EP2495415A1; US9745859B2; US8474433B2; US9194304B2

Designated contracting state (EPC)
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