

Title (en)
VARIABLE GEOMETRY TURBOCHARGER

Title (de)
TURBOLADER MIT VERSTELLBAREN LEITSCHAUFELN

Title (fr)
TURBOCOMPRESSEUR A GEOMETRIE VARIABLE

Publication
EP 1264078 A1 20021211 (EN)

Application
EP 00917890 A 20000313

Priority
US 0006512 W 20000313

Abstract (en)
[origin: WO0169045A1] A variable geometry turbocharger employs multiple vanes (36) in the turbine inlet with a unison ring (48) and integral cast wall in the turbine housing forming the nozzle walls. The unison ring incorporates actuation slots (46) receiving tabs (44) on the vanes (36) for opening the closing the nozzle area upon rotation of the unison ring (48). An integral electrohydraulic actuator rotates the unison ring (48) through a rack and pinion driven crank shaft with direct position feedback to the spring biased variable current solenoid via a cam on the crank shaft.

IPC 1-7
F01D 17/16; **F02C 6/12**

IPC 8 full level
F02B 37/24 (2006.01); **F01D 17/16** (2006.01); **F02C 6/12** (2006.01)

CPC (source: EP KR)
F01D 17/165 (2013.01 - EP); **F02B 37/22** (2013.01 - KR); **F05D 2220/40** (2013.01 - EP)

Citation (search report)
See references of WO 0169045A1

Cited by
US8770087B2; US8109090B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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WO 0169045 A1 20010920; AT E313007 T1 20051215; AU 3879600 A 20010924; AU 758433 B2 20030320; CA 2349917 A1 20010913; CA 2349917 C 20081202; CN 1313711 C 20070502; CN 1451076 A 20031022; DE 1264078 T1 20030626; DE 60024879 D1 20060119; DE 60024879 T2 20060720; EP 1264078 A1 20021211; EP 1264078 B1 20051214; JP 2003527522 A 20030916; JP 4460814 B2 20100512; KR 100642050 B1 20061110; KR 20020081047 A 20021026

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