

Title (en)
Bearing housing shroud

Title (de)
Lagergehäuseverkleidung

Title (fr)
Enveloppe de logement de palier

Publication
EP 2796664 A1 20141029 (EN)

Application
EP 13171511 A 20130611

Priority
US 201313986381 A 20130424

Abstract (en)
A turbocharger including a turbine wheel having a hub-to-tip ratio of no more than 60% and blades with a high turning angle, a turbine housing forming an inwardly spiraling primary-scroll passageway that significantly converges to produce highly accelerated airflow into the turbine at high circumferential angles, and a two-sided parallel compressor. The compressor and turbine each produce substantially no axial force, allowing the use of minimal axial thrust bearings. The bearing housing forms a shroud for the internal side of the compressor wheel.

IPC 8 full level
F01D 5/04 (2006.01); **F01D 9/02** (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP)
F01D 5/045 (2013.01); **F01D 5/048** (2013.01); **F01D 9/026** (2013.01); **F01D 9/045** (2013.01); **F05D 2220/40** (2013.01); **F05D 2240/14** (2013.01)

Citation (applicant)
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Citation (search report)
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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