

Title (en)
Axial compressor for a gas turbine mechanism

Title (de)
Axialkompressor für ein Gasturbinentriebwerk

Title (fr)
Compresseur axial pour une turbine à gaz

Publication
EP 1843044 B1 20081008 (DE)

Application
EP 07090067 A 20070329

Priority
DE 102006015838 A 20060403

Abstract (en)
[origin: EP1843044A1] The compressor has a rotor drum (2) that is driven by a turbine and including rotor blades (11-14) that are provided at an outer compressor stage. Stator blades are provided at the rotor blades. The rotor drum is formed from rotor rings (7-10) with fiber belts (18, 21) that are arranged in the regions of high centrifugal force load. The rotor drum is made from a high temperature resistant fibers that are bedded with polymer e.g. polyamide, polypropylene and epoxy resin.

IPC 8 full level
F01D 5/30 (2006.01); **F04D 29/02** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)
F01D 5/06 (2013.01 - EP US); **F01D 5/30** (2013.01 - EP US); **F01D 5/3092** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/321** (2013.01 - EP US); **F04D 29/322** (2013.01 - EP US); **F05D 2300/43** (2013.01 - EP US); **F05D 2300/433** (2013.01 - EP US); **F05D 2300/603** (2013.01 - EP US)

Cited by
EP2818635A1; KR20140050564A; EP3020918A1; US10370971B2; WO2011009433A1

Designated contracting state (EPC)
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