

Title (en)
Lightened rotor of axial compressor

Title (de)
Leichterer Rotor für Axialkompressor

Title (fr)
Rotor allégé de compresseur axial

Publication
EP 2400160 B1 20140101 (FR)

Application
EP 10166959 A 20100623

Priority
EP 10166959 A 20100623

Abstract (en)
[origin: EP2400160A1] The stage has a row of rotor blades (9) respectively provided with platforms (12), and a wall (3) rotationally symmetric with respect to a rotational axis of an axial turbomachine, where the wall forms a hollow body. The wall comprises a web and a support zone (5) that is raised with respect to the web in a direction oriented towards exterior of the hollow body. The support zone has side walls (7) connecting a middle part of the zone with the web. Each platform is assembled with the middle part by single fixation element e.g. tie-down bolt, lockbolt or rivet, or multiple fixation elements.

IPC 8 full level
F04D 29/32 (2006.01); **F01D 5/06** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP US)
F01D 5/3023 (2013.01 - EP US); **F01D 5/3053** (2013.01 - EP US); **F04D 29/321** (2013.01 - EP US); **F04D 29/322** (2013.01 - EP US)

Cited by
EP3751102A1; EP2706242A1; US9598968B2; WO2015171670A1; US10422340B2; BE1027359A1

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 SE SI SK SM TR

DOCDB simple family (publication)
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