

Title (en)

TURBINE DISC WITH REDUCED NECK STRESS CONCENTRATION

Title (de)

TURBINENSCHIBE MIT REDUZIERTER HALSSPANNUNGSÜBERHÖHUNG

Title (fr)

DISQUE DE TURBINE DOTÉ D'UNE CONCENTRATION DE CONTRAINTES DE COL RÉDUITE

Publication

EP 2935786 A1 20151028 (EN)

Application

EP 13865347 A 20131220

Priority

- US 201213722391 A 20121220
- US 2013076845 W 20131220

Abstract (en)

[origin: US2014174098A1] A disc with two sides includes a hub having a bore and a bore radius, a neck, and a rim. The neck is connected to and radially outward of the hub and has an inner wedge with a curved section on one side of the disc, an outer wedge with a curved section on that same side of the disc, and a center section between the wedges with a flat side on that same side of the disc. The rim is connected to and radially outward of the neck, the rim having a radius that is no more than seven times greater than the bore radius.

IPC 8 full level

F01D 5/03 (2006.01); **F01D 5/02** (2006.01); **F02C 3/14** (2006.01); **F02C 7/00** (2006.01)

CPC (source: EP US)

F01D 5/02 (2013.01 - EP US); **F02C 3/145** (2013.01 - EP US); **F01D 5/3007** (2013.01 - EP US); **F05D 2250/193** (2013.01 - EP US); **F05D 2250/292** (2013.01 - EP US); **F05D 2250/293** (2013.01 - EP US); **F05D 2250/712** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2014174098 A1 20140626; CA 2887943 A1 20140626; EP 2935786 A1 20151028; EP 2935786 A4 20151216; WO 2014100553 A1 20140626

DOCDB simple family (application)

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