

Title (en)

DISCHARGE AREA FOR GUIDE BLADE COVER AND BASE PANELS

Title (de)

AUFLAUFFLÄCHE FÜR LEITSCHAUFELDECK- UND LAUFSCHAUFELGRUNDPLATTE

Title (fr)

RAMPE POUR PLAQUE DE RECOUVREMENT D'AUBE DIRECTRICE ET EMBASE D'AUBE MOBILE

Publication

EP 3517736 A1 20190731 (DE)

Application

EP 19160922 A 20161130

Priority

- DE 102015224259 A 20151204
- EP 16201364 A 20161130

Abstract (en)

[origin: US2017159464A1] A guide vane segment 10 for a turbomachine includes a radially inner shroud plate 13 having a shroud plate surface 14 that is adapted to be configured in the turbomachine to face a rotor blade 20 adjacent to the guide vane segment, and thereby essentially extend along an outer conical surface K1 whose cone axis coincides with the axis of rotation A of a rotor shaft 30. In a radially inner region, a rotor blade 20 for a turbomachine has a base plate 23 having a base plate surface 24 that is adapted to be configured in the turbomachine to face a shroud of a guide vane row 10 adjacent to the rotor blade and thereby essentially extend along an outer conical surface K2 whose cone axis coincides with the axis of rotation A of a rotor shaft 30.

Abstract (de)

Eine erfindungsgemäße Laufschaufel 20 für eine Strömungsmaschine weist in einem radial inneren Bereich eine Grundplatte 23 mit einer Grundplattenoberfläche 24 auf, die dazu eingerichtet ist, in der Strömungsmaschine einem Deckband einer der Laufschaufel benachbarten Leitschaufelreihe 10 zugewandt angeordnet zu werden und dabei im Wesentlichen entlang einer Kegelmantelfläche K2 zu verlaufen, deren Kegelachse mit der Rotationsachse A einer Rotorwelle 30 übereinstimmt.

IPC 8 full level

F01D 9/04 (2006.01); **F01D 5/12** (2006.01); **F01D 21/04** (2006.01); **F01D 21/06** (2006.01)

CPC (source: EP US)

F01D 5/12 (2013.01 - US); **F01D 9/041** (2013.01 - EP US); **F01D 11/001** (2013.01 - EP US); **F01D 21/04** (2013.01 - EP US); **F01D 21/045** (2013.01 - EP US); **F01D 21/06** (2013.01 - US); **F05D 2220/32** (2013.01 - US); **F05D 2240/12** (2013.01 - US); **F05D 2240/24** (2013.01 - US); **F05D 2250/232** (2013.01 - EP US); **F05D 2260/90** (2013.01 - US); **F05D 2260/902** (2013.01 - EP US)

Citation (applicant)

- DE 102008011746 A1 20090903 - MTU AERO ENGINES GMBH [DE]
- US 2007243061 A1 20071018 - TAYLOR MARK D [GB], et al
- EP 2236748 A2 20101006 - ROLLS ROYCE PLC [GB]
- US 2014205443 A1 20140724 - LEE CHING-PANG [US], et al

Citation (search report)

- [XD] US 2014205443 A1 20140724 - LEE CHING-PANG [US], et al
- [X] US 2015040567 A1 20150212 - LU GUOQIANG [US], et al
- [X] WO 2015119699 A2 20150813 - UNITED TECHNOLOGIES CORP [US]

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

DOCDB simple family (publication)

US 10655483 B2 20200519; **US 2017159464 A1 20170608**; DE 102015224259 A1 20170608; EP 3246521 A1 20171122; EP 3246521 B1 20190424; EP 3517736 A1 20190731; ES 2726713 T3 20191008

DOCDB simple family (application)

US 201615366260 A 20161201; DE 102015224259 A 20151204; EP 16201364 A 20161130; EP 19160922 A 20161130; ES 16201364 T 20161130