

Title (en)
INDENTED RING FOR A TURBINE ENGINE COMPRESSOR

Title (de)
RING MIT ERHEBUNGEN FÜR VERDICHTER EINER STRÖMUNGSMASCHINE

Title (fr)
VIROLE À BOSSES POUR COMPRESSEUR DE TURBOMACHINE

Publication
EP 3477049 A1 20190501 (FR)

Application
EP 18194178 A 20180913

Priority
BE 201705764 A 20171026

Abstract (en)
[origin: US2019128121A1] A low-pressure compressor for an axial-flow turbomachine, such as a jet engine, includes an annular row of vanes and a between-vanes passage with a connecting surface that links the pressure surface of a first vane to the suction surface of a second vane of the row. The connecting surface includes a main protuberance which includes a first elevation and a second elevation that are spaced apart from one another.

Abstract (fr)
L'invention concerne un compresseur basse-pression de turbomachine axiale, tel un turboréacteur. Le compresseur comprend une rangée annulaire d'aubes (26) et un passage inter-aubes (42) avec une surface de liaison (44) reliant la surface intrados (38) d'une première aube (26) à la surface extrados (40) d'une deuxième aube (26) de la rangée. La surface de liaison (44) comporte une protubérance principale (52) qui comprend une première bosse (54) et une deuxième bosse (58) écartées l'une de l'autre.

IPC 8 full level
F01D 5/14 (2006.01); **F04D 29/32** (2006.01); **F04D 29/54** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP US)
F01D 5/143 (2013.01 - EP US); **F01D 9/041** (2013.01 - US); **F04D 29/321** (2013.01 - EP US); **F04D 29/542** (2013.01 - EP US); **F04D 29/681** (2013.01 - EP US); **F05D 2240/121** (2013.01 - US); **F05D 2240/122** (2013.01 - US); **F05D 2240/123** (2013.01 - US); **F05D 2240/124** (2013.01 - US); **F05D 2250/71** (2013.01 - EP US); **F05D 2250/711** (2013.01 - US); **F05D 2250/712** (2013.01 - US)

Citation (applicant)
US 2007059177 A1 20070315 - HARVEY NEIL W [GB]

Citation (search report)
• [X] DE 102015224376 A1 20170608 - MTU AERO ENGINES AG [DE]
• [A] US 2013136621 A1 20130530 - WUNDERER ROLAND [DE], et al
• [A] EP 2487329 A1 20120815 - MTU AERO ENGINES GMBH [DE]

Cited by
EP4089264A1; US11585223B2

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

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