

Title (en)
TURBINE VANE WITH COOLING SYSTEM

Title (de)
TURBINENSCHAUFEL MIT KÜHLSYSTEM

Title (fr)
AUBE DE TURBINE AVEC SYSTÈME DE REFROIDISSEMENT

Publication
EP 3611341 B1 20240214 (DE)

Application
EP 19181277 A 20190619

Priority
DE 102018119572 A 20180813

Abstract (en)
[origin: US2020049015A1] A cooling system for cooling a turbine blade with a cooling fluid via an internal flow passage formed in the turbine blade extending from an inlet to an outlet edge having a first passage section defining a first flow direction, a second passage section defining a second flow direction, a wall between the first and second passage section and a diverter, between the first and the second passage section. The wall in a region of the diverter forms a pier head which extends into the region of the first passage section and thereby reduces the flow cross section of the flow passage.

IPC 8 full level
F01D 5/18 (2006.01)

CPC (source: EP US)
F01D 5/18 (2013.01 - EP); **F01D 5/186** (2013.01 - EP US); **F01D 5/187** (2013.01 - EP); **F05D 2240/304** (2013.01 - US); **F05D 2250/185** (2013.01 - EP US); **F05D 2260/20** (2013.01 - EP); **F05D 2260/202** (2013.01 - US)

Designated contracting state (EPC)
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EP 3611341 A1 20200219; EP 3611341 B1 20240214; DE 102018119572 A1 20200213; JP 2020026793 A 20200220; JP 7446064 B2 20240308; RS 65476 B1 20240531; US 11255196 B2 20220222; US 2020049015 A1 20200213

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EP 19181277 A 20190619; DE 102018119572 A 20180813; JP 2019127638 A 20190709; RS P20240507 A 20190619; US 201916537278 A 20190809