

Title (en)
ROTOR BLADE OF A TURBOMACHINE

Title (de)
LAUFSCHAUFEL EINER STRÖMUNGSMASCHINE

Title (fr)
AUBE MOBILE D'UNE TURBOMACHINE

Publication
EP 3719258 B1 20230503 (DE)

Application
EP 20161689 A 20200309

Priority
DE 102019108811 A 20190404

Abstract (en)
[origin: US2020318485A1] A moving blade of a turbo machine, having a leading edge, a flow trailing edge, flow conduction faces, and a blade root mounting the moving blade to a hub body. The blade root is fir tree-like with projections spaced apart from one another. An inner shroud is arranged between the blade leaf and the blade root. A cooling passage is integrated in the blade leaf and the blade root for a cooling medium. An inlet of the cooling passage is formed on the blade root formed of a first inlet passage portion and a second inlet passage portion and a material web extends there between. The first inlet passage portion and the second inlet passage portion merge into a unifying passage portion arranged radially outside the uppermost projection of the blade root and radially inside of the inner shroud.

IPC 8 full level
F01D 5/18 (2006.01); **F01D 5/30** (2006.01)

CPC (source: CN EP IL KR US)
F01D 5/046 (2013.01 - IL KR); **F01D 5/081** (2013.01 - EP IL); **F01D 5/18** (2013.01 - US); **F01D 5/187** (2013.01 - CN EP KR US);
F01D 5/30 (2013.01 - CN IL US); **F01D 5/3007** (2013.01 - EP); **F01D 25/12** (2013.01 - KR); **F05D 2260/20** (2013.01 - KR);
F05D 2260/221 (2013.01 - US); **F05D 2260/941** (2013.01 - EP)

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)
EP 3719258 A1 20201007; EP 3719258 B1 20230503; CN 111794805 A 20201020; DE 102019108811 A1 20201008;
DE 102019108811 B4 20240229; ES 2950136 T3 20231005; IL 272567 A 20201029; IL 272567 B1 20230601; IL 272567 B2 20231001;
JP 2020169644 A 20201015; JP 7424893 B2 20240130; KR 20200117866 A 20201014; RS 64375 B1 20230831; US 11408289 B2 20220809;
US 2020318485 A1 20201008

DOCDB simple family (application)
EP 20161689 A 20200309; CN 202010259131 A 20200403; DE 102019108811 A 20190404; ES 20161689 T 20200309;
IL 27256720 A 20200209; JP 2020067546 A 20200403; KR 20200035977 A 20200325; RS P20230575 A 20200309;
US 202016821322 A 20200317