

Title (en)

LAYER SYSTEM, IMPELLER, METHOD TO PRODUCE

Title (de)

SCHICHTSYSTEM, LAUFRAD, VERFAHREN ZUR HERSTELLUNG

Title (fr)

SYSTÈME DE COUCHES, TURBINE ET PROCÉDÉ DE PRODUCTION

Publication

EP 3472472 B1 20200422 (EN)

Application

EP 17739949 A 20170710

Priority

- EP 16183478 A 20160810
- EP 2017067260 W 20170710

Abstract (en)

[origin: EP3282130A1] The invention refers to a layer system (LSY) comprising a base material (BE) of a base element (BE), wherein said layer system (LSY) extends in a border area of said base element (BE) up to an outer surface, wherein said layer system (LSY) comprises at least one layer of cladding material (LCM1-LCMn) provided onto the base material (BE). Further the invention relates to an impeller (IMP) of a turbo-machine, in particular a turbo-compressor (TC), in particular a centrifugal turbo-compressor (TC), wherein said impeller (IMP) comprises a base element (BE) of a base material (BE) comprising blades (BLA) being arranged along a circumferential direction of a rotational axis (X), wherein said blades (BLA) comprise a leading edge (LE) and a trailing edge (TE). Further the invention relates to a method to produce a layer system (LSY) and a method to produce an impeller (IMP) respectively according to the before mentioned type.

IPC 8 full level

F04D 29/02 (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP RU)

F04D 29/02 (2013.01 - RU); **F04D 29/023** (2013.01 - EP); **F04D 29/284** (2013.01 - EP); **F05D 2230/30** (2013.01 - EP); **F05D 2230/90** (2013.01 - EP); **F05D 2300/2263** (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 3282130 A1 20180214; CN 109642583 A 20190416; EP 3472472 A1 20190424; EP 3472472 B1 20200422; RU 2708187 C1 20191204; WO 2018028908 A1 20180215

DOCDB simple family (application)

EP 16183478 A 20160810; CN 201780048354 A 20170710; EP 17739949 A 20170710; EP 2017067260 W 20170710; RU 2019106322 A 20170710