

Title (en)

TOOL CHUCK, UNIT FOR TRANSFORMING A PLANAR SUBSTRATE, AND OPERATING METHOD

Title (de)

WERKZEUGSPINDEL, TRANSFORMATIONSGRUPPE EINER EBENEN AUFLAGEFLÄCHE UND FUNKTIONSVERFAHREN

Title (fr)

MANDRIN D'OUTIL ROTATIF, GROUPE DE TRANSFORMATION D'UN SUPPORT PLAN, ET PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 3227042 B1 20211208 (FR)

Application

EP 15801685 A 20151120

Priority

- EP 14020104 A 20141204
- EP 2015025086 W 20151120

Abstract (en)

[origin: WO2016087047A1] A rotary tool chuck for a unit for modifying a flat material, on which a sleeve (13) is intended to be fitted, comprises a cylindrical core (14), a peripheral wall (17), which is able to take up a rest position and a locking position exerting a radial pressure on the sleeve (13) so as to lock it in position on the chuck (12), a pressure fluid circuit (21), provided between the peripheral wall (17) and the cylindrical core (14), for exerting the radial pressure on the sleeve (13), and a cooling fluid circuit (24) for allowing circulation of a fluid at the cylindrical core (14) and for cooling the chuck (12).

IPC 8 full level

B23B 31/30 (2006.01); **B31B 50/14** (2017.01); **B31B 50/88** (2017.01); **B31F 1/07** (2006.01); **B41F 13/22** (2006.01)

CPC (source: CN EP KR US)

B31B 50/146 (2017.07 - EP KR US); **B31B 50/16** (2017.07 - US); **B31B 50/25** (2017.07 - KR); **B31B 50/256** (2017.07 - US); **B31B 50/741** (2017.07 - KR US); **B31B 50/88** (2017.07 - EP KR US); **B31F 1/07** (2013.01 - CN KR); **B31F 1/10** (2013.01 - CN); **B41F 13/22** (2013.01 - EP KR US); **B31B 2100/002** (2017.07 - US); **B31F 2201/073** (2013.01 - EP KR US)

Citation (examination)

- EP 2428361 A1 20120314 - UTECO CONVERTING SPA [IT]
- US 5345864 A 19940913 - MACHGUTH GUENTHER [CH], et al
- US 2003205156 A1 20031106 - BELANGER JAMES RICHARD [US], et al

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)

WO 2016087047 A1 20160609; CN 107107518 A 20170829; CN 107107518 B 20201106; EP 3227042 A1 20171011; EP 3227042 B1 20211208; ES 2902695 T3 20220329; JP 2018505789 A 20180301; JP 6445159 B2 20181226; KR 20170086084 A 20170725; US 10464276 B2 20191105; US 2017305095 A1 20171026

DOCDB simple family (application)

EP 2015025086 W 20151120; CN 201580071120 A 20151120; EP 15801685 A 20151120; ES 15801685 T 20151120; JP 2017529027 A 20151120; KR 20177016870 A 20151120; US 201515531801 A 20151120