

Title (en)

METHOD FOR PRODUCING A CUTTING TOOL WITH A RECESS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SCHNEIDWERKZEUGS MIT EINER AUSNEHMUNG

Title (fr)

PROCÉDÉ DE FABRICATION D'UN OUTIL DE COUPE COMPORTANT UN ÉVIDEMENT

Publication

EP 4048465 A1 20220831 (DE)

Application

EP 20799992 A 20201020

Priority

- DE 102019128929 A 20191025
- DE 102020117141 A 20200630
- DE 2020100902 W 20201020

Abstract (en)

[origin: WO2021078332A1] The invention relates to a method for producing a cutting tool comprising the following steps: a) providing a starting material for use in an additive manufacturing method in a plurality of material layers; and b) bonding each material layer of the starting material in the form of an indexable insert, wherein the material layers are arranged such that a recess is formed in the cutting tool for securing the cutting tool with a fastener to a tool base body in order to secure the cutting tool with a tool reference level that is parallel to a support plane of a tool base body.

IPC 8 full level

B22F 3/105 (2006.01); **B22F 5/00** (2006.01); **B23B 27/14** (2006.01); **B23C 5/20** (2006.01); **B33Y 10/00** (2015.01); **B33Y 80/00** (2015.01)

CPC (source: EP US)

B22F 3/24 (2013.01 - US); **B22F 5/00** (2013.01 - US); **B22F 10/12** (2021.01 - EP US); **B22F 10/18** (2021.01 - EP US); **B22F 10/22** (2021.01 - US); **B22F 10/28** (2021.01 - EP US); **B22F 10/66** (2021.01 - EP US); **B23B 27/1611** (2013.01 - US); **B23P 15/28** (2013.01 - US); **B33Y 10/00** (2014.12 - EP US); **B33Y 70/10** (2020.01 - US); **B33Y 80/00** (2014.12 - EP US); **B22F 10/64** (2021.01 - EP US); **B22F 2003/247** (2013.01 - US); **B22F 2005/001** (2013.01 - EP US); **B22F 2302/10** (2013.01 - US); **B22F 2302/205** (2013.01 - US); **B22F 2302/406** (2013.01 - US); **B23B 27/141** (2013.01 - EP); **B23B 2226/125** (2013.01 - EP); **B23B 2226/315** (2013.01 - EP); **C22C 26/00** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

See references of WO 2021078332A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102020117141 A1 20210429; DE 102019130940 A1 20210429; EP 4048464 A1 20220831; EP 4048465 A1 20220831; JP 2022553392 A 20221222; JP 2022554124 A 20221228; US 2022226898 A1 20220721; US 2022226945 A1 20220721; WO 2021078331 A1 20210429; WO 2021078332 A1 20210429

DOCDB simple family (application)

DE 102020117141 A 20200630; DE 102019130940 A 20191115; DE 2020100901 W 20201020; DE 2020100902 W 20201020; EP 20799991 A 20201020; EP 20799992 A 20201020; JP 2022523661 A 20201020; JP 2022524001 A 20201020; US 202217655027 A 20220316; US 202217655042 A 20220316