

Title (en)

METHOD AND DEVICE FOR SEPARATING A FLAT WORKPIECE FROM A MATERIAL SHEET

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUSBRECHEN EINES FLÄCHIGEN WERKSTÜCKS AUS EINEM WERKSTOFFBOGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ENLÈVEMENT D'UNE PIÈCE PLATE D'UNE FEUILLE DE MATÉRIAU

Publication

EP 3554782 A1 20191023 (DE)

Application

EP 17838035 A 20171212

Priority

- DE 102016124848 A 20161219
- DE 102017105508 A 20170315
- EP 2017082487 W 20171212

Abstract (en)

[origin: US2018169884A1] In a device for breaking out a workpiece (3) from a material sheet (2) through an opening (4) of a die (1) by means of a breakout tool (5), the die (1) is to have a plug-in unit (22), wherein a breakout module (9.1-9.4) is insertable into the plug-in unit (22), wherein the breakout module (9.1-9.4) is composed of an insert (10) and of a module lobe (11), wherein the insert (10) has a surface (16) and a shearing edge (17), wherein the shearing edge (17) toward a bearing face (12) of the module lobe (11) configures an offcut length (18), and wherein the offcut length has a height (h) of 0.8 mm to 1.8 mm, and preferably of 1.5 mm.

IPC 8 full level

B26D 7/18 (2006.01); **B26F 1/44** (2006.01)

CPC (source: EP US)

B26D 7/1818 (2013.01 - EP US); **B26D 2007/1881** (2013.01 - EP US); **B26D 2007/189** (2013.01 - EP US); **B26F 1/44** (2013.01 - EP US); **Y10T 225/371** (2015.04 - EP US); **Y10T 225/379** (2015.04 - EP US)

Citation (search report)

See references of WO 2018114491A1

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US 10391661 B2 20190827; **US 2018169884 A1 20180621**; CA 2965937 A1 20180619; CN 110087839 A 20190802; CN 110087839 B 20210309; DE 102017105508 A1 20180621; EP 3554782 A1 20191023; EP 3554782 B1 20200923; ES 2828634 T3 20210527; MY 193376 A 20221007; PH 12019500832 A1 20191125; WO 2018114491 A1 20180628

DOCDB simple family (application)

US 201715498928 A 20170427; CA 2965937 A 20170501; CN 201780078079 A 20171212; DE 102017105508 A 20170315; EP 17838035 A 20171212; EP 2017082487 W 20171212; ES 17838035 T 20171212; MY PI2019002075 A 20171212; PH 12019500832 A 20190416