

Title (en)

PROCESS FOR CUTTING SLICES FROM AN INGOT MADE OF HARD MATERIAL AND ABRASIVE WIRE

Title (de)

VERFAHREN ZUM SCHNEIDEN VON SCHEIBEN EINES INGOTS AUS HARTEM MATERIAL UND SCHLEIFDRAHT

Title (fr)

PROCEDE DE DECOUPE DE TRANCHES DANS UN LINGOT EN MATERIAU DUR ET FIL ABRASIF

Publication

EP 3515675 A1 20190731 (FR)

Application

EP 17780490 A 20170919

Priority

- FR 1659009 A 20160926
- FR 2017052495 W 20170919

Abstract (en)

[origin: WO2018055273A1] This cutting process comprises: - the use of a marked abrasive wire comprising, on the cylindrical outer face thereof and between abrasive particles, a mark that is deformed as a function of the twisting of the abrasive wire, this mark extending longitudinally over at least 50% of the total length of the abrasive wire and having a reflectance R_m at a wavelength λ_m , - during the displacement of the wire and with the aid of a sensor sensitive to the reflectance of the outer face of the abrasive wire, the reading (120) of at least one characteristic of the current shape of the mark that varies as a function of the twisting of the abrasive wire, and - the estimation (130) of the twisting of the abrasive wire from the observed characteristic of the current shape of the mark and from a known value of this characteristic corresponding to a known twisting of the abrasive wire.

IPC 8 full level

B28D 5/00 (2006.01); **B23D 61/18** (2006.01); **B28D 5/04** (2006.01)

CPC (source: EP US)

B23D 61/185 (2013.01 - EP); **B28D 5/0064** (2013.01 - EP); **B28D 5/045** (2013.01 - EP US); **B23D 61/185** (2013.01 - US); **B28D 5/0064** (2013.01 - US)

Citation (search report)

See references of WO 2018055273A1

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)

WO 2018055273 A1 20180329; EP 3515675 A1 20190731; FR 3056428 A1 20180330; FR 3056428 B1 20181019; US 2019275701 A1 20190912

DOCDB simple family (application)

FR 2017052495 W 20170919; EP 17780490 A 20170919; FR 1659009 A 20160926; US 201716335324 A 20170919