

Title (en)

METHOD FOR CUTTING WITH A FLUID JET

Title (de)

VERFAHREN ZUM FLÜSSIGKEITSSTRAHLSCHNEIDEN

Title (fr)

METHODE POUR LA DECOUPE AVEC UN JET DE FLUIDE

Publication

EP 3233397 A1 20171025 (DE)

Application

EP 15787556 A 20151027

Priority

- DE 102014225904 A 20141215
- EP 2015074889 W 20151027

Abstract (en)

[origin: WO2016096215A1] The invention relates to a liquid jet cutting method using a compressor unit (3) that comprises a liquid for generating a liquid jet and using a nozzle (10) that is connected to the compressor unit (3) and has an outlet opening (11) through which the compressed liquid exits in the form of a liquid jet (14). The flow of the compressed liquid to the outlet opening (11) can be interrupted or released by means of an interruption unit (8). The method has the following steps: compressing the liquid by means of the compressor unit (3), moving the outlet opening (11) closer to a workpiece (15) to be machined up to a machining distance (d), and alternatively releasing and interrupting the liquid jet (14) by means of the interruption unit (8), wherein the nozzle is simultaneously moved relative to the workpiece in a machining direction (22), and the machining angle between the workpiece surface (115) and the liquid jet (14) is less than 90°.

IPC 8 full level

B24C 1/04 (2006.01); **B24C 5/02** (2006.01); **B26F 3/00** (2006.01)

CPC (source: CN EP US)

B24C 1/045 (2013.01 - EP US); **B24C 5/02** (2013.01 - EP US); **B26F 3/004** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2016096215A1

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 102014225904 A1 20160616; CN 107000239 A 20170801; EP 3233397 A1 20171025; EP 3233397 B1 20180829; US 2017326751 A1 20171116; WO 2016096215 A1 20160623

DOCDB simple family (application)

DE 102014225904 A 20141215; CN 201580068569 A 20151027; EP 15787556 A 20151027; EP 2015074889 W 20151027; US 201515535776 A 20151027