

Title (en)

METHOD FOR PLASMA-CUTTING WORKPIECES

Title (de)

VERFAHREN ZUM PLASMASCHNEIDEN VON WERKSTÜCKEN

Title (fr)

PROCÉDÉ DE COUPAGE DE PIÈCES AU JET DE PLASMA

Publication

**EP 4363149 A1 20240508 (DE)**

Application

**EP 22765421 A 20220809**

Priority

- DE 102021004182 A 20210816
- DE 102021005500 A 20211108
- EP 2022072339 W 20220809

Abstract (en)

[origin: WO2023020893A1] The invention relates to a method for plasma-cutting workpieces, wherein at least one plasma cutting torch is used, which has at least a plasma torch body, an electrode and a nozzle, through the nozzle opening of which at least a plasma gas or plasma gas mixture flows and which constricts the plasma jet. Before the plasma jet pierces into and through the workpiece, a scoured portion (410) is formed by exposing the workpiece, from the workpiece surface, to the plasma jet at least for a duration  $t_2$  such that, from the workpiece surface, material of the workpiece is removed and the scoured portion (410) is produced.

IPC 8 full level

**B23K 10/00** (2006.01); **B23K 103/04** (2006.01); **B23K 103/10** (2006.01)

CPC (source: EP)

**B23K 10/00** (2013.01); **B23K 10/003** (2013.01); **B23K 2103/05** (2018.08); **B23K 2103/10** (2018.08)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2023020893 A1 20230223**; EP 4363149 A1 20240508

DOCDB simple family (application)

**EP 2022072339 W 20220809**; EP 22765421 A 20220809