

Title (en)

FRAME FOR A CARTRIDGE FOR A PLASMA ARC CUTTING SYSTEM, METHOD OF COOLING THE PLASMA ARC CUTTING SYSTEM AND METHOD OF MANUFACTURING THE FRAME

Title (de)

RAHMEN FÜR EINE KARTUSCHE FÜR EIN PLASMALICHTBOGENSCHNEIDSYSTEM, VERFAHREN ZUM KÜHLEN DES PLASMALICHTBOGENSCHNEIDSYSTEMS UND VERFAHREN ZUR HERSTELLUNG DES RAHMENS

Title (fr)

CADRE POUR CARTOUCHE POUR SYSTÈME DE DÉCOUPE À L'ARC PLASMA, PROCÉDÉ DE REFROIDISSEMENT DU SYSTÈME DE DÉCOUPE À L'ARC PLASMA ET PROCÉDÉ DE FABRICATION DU CADRE

Publication

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Application

EP 24159468 A 20191107

Priority

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- EP 19836670 A 20191107
- US 2019060318 W 20191107

Abstract (en)

A frame for a replaceable, unitary consumables cartridge configured for installation into a plasma arc torch. The frame includes a hollow body adapted to receive a translatable contact start electrode. The body has an internal surface and an external surface and includes: a substantially cylindrical metallic core; an electrically insulative overmolded plastic casing at least substantially surrounding a circumference of a distal end of the substantially cylindrical metallic core; and a set of flow passages fluidly connecting the external surface of the hollow body and the internal surface of the hollow body, the flow passages offset to impart a swirling fluid flow pattern to a plasma gases passing therethrough.

IPC 8 full level

H05H 1/34 (2006.01)

CPC (source: EP US)

H05H 1/3423 (2021.05 - EP US); **H05H 1/3468** (2021.05 - EP)

Citation (search report)

- [A] KR 20180040645 A 20180420 - HYPER THERM INC [US]
- [A] US 2016050740 A1 20160218 - ZHANG YU [US], et al
- [A] US 2015319836 A1 20151105 - SANDERS NICHOLAS A [US]
- [A] US 2013043224 A1 20130221 - LEITERITZ NATHAN GERALD [US], et al

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DOCDB simple family (publication)

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