

Title (en)

INSTALLATION FOR THE AUTOMATED STRAIGHTENING OF A SPARK PLUG ELECTRODE AND ASSOCIATED AUTOMATED STRAIGHTENING METHOD

Title (de)

INSTALLATION ZUR AUTOMATISIERTEN BEGRADIGUNG EINER ZÜNDKERZENELEKTRODE UND ENTSPRECHENDES AUTOMATISIERTES BEGRADIGUNGSVERFAHREN

Title (fr)

INSTALLATION DE REDRESSAGE AUTOMATISÉ D'UNE MÈCHE DE BOUGIE ET PROCÉDÉ DE REDRESSAGE AUTOMATISÉ ASSOCIÉ

Publication

**EP 3408589 A1 20181205 (FR)**

Application

**EP 17706579 A 20170127**

Priority

- FR 1650683 A 20160128
- FR 2017050189 W 20170127

Abstract (en)

[origin: WO2017129915A1] Installation (5) for the automated straightening of an electrode (12) of a spark plug (1) inside a receptacle (10) containing a fusible combustible substance (11) in the solidification phase, comprising: – a detection system (6) able to detect an initial position of the electrode inside the receptacle; – a mobile gripping system (7) able to grasp and move the electrode; – a control system connected to the said detection system for controlling it in terms of detection and receiving the said initial position and to the said gripping system for controlling it in terms of gripping and of movement, starting from a rest configuration as far as an initial configuration in which the said gripping system grasps the electrode in its initial position and then as far as a final configuration in which the said gripping system has straightened the electrode vertically. The present invention finds an application in the field of spark plug production lines.

IPC 8 full level

**F23D 3/28** (2006.01); **C11C 5/00** (2006.01); **C11C 5/02** (2006.01)

CPC (source: EP US)

**C11C 5/006** (2013.01 - EP US); **F23D 3/28** (2013.01 - EP US)

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 2017129915 A1 20170803**; CA 3011895 A1 20170803; CA 3011895 C 20240319; EP 3408589 A1 20181205; EP 3408589 B1 20201007; ES 2841301 T3 20210708; FR 3047250 A1 20170804; FR 3047250 B1 20180216; US 11156357 B2 20211026; US 2018335207 A1 20181122

DOCDB simple family (application)

**FR 2017050189 W 20170127**; CA 3011895 A 20170127; EP 17706579 A 20170127; ES 17706579 T 20170127; FR 1650683 A 20160128; US 201816048699 A 20180730