

Title (en)

METHOD AND SYSTEM FOR COMPENSATING FOR ELECTRODE BURN-OFF IN AN ARC FURNACE

Title (de)

VERFAHREN UND SYSTEM ZUM KOMPENSIEREN DES ABBRANDS EINER ELEKTRODE IN EINEM LICHTBOGENOFEN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR COMPENSER L'USURE D'UNE ÉLECTRODE DANS UN FOUR À ARC

Publication

EP 4127585 A1 20230208 (DE)

Application

EP 21715620 A 20210331

Priority

- EP 20167232 A 20200331
- EP 2021058436 W 20210331

Abstract (en)

[origin: WO2021198334A1] The present invention relates to a method (100) and a system (1) for compensating for electrode (2) burn-off in an arc furnace (3). At least a part of the electrode (2) held in a first retaining position (H1) by a retaining device (4) is detected (S1) with the aid of a sensor device (5) and a second retaining position (H2) is determined (S2) on the basis of data generated during the detection. The retaining device (4) can then be repositioned (S4) relative to the electrode (2) from the first retaining position (H1) to the determined second retaining position (H2).

IPC 8 full level

F27B 3/08 (2006.01); **F27B 3/28** (2006.01); **F27D 11/10** (2006.01); **F27D 19/00** (2006.01); **H05B 7/109** (2006.01)

CPC (source: EP US)

F27B 3/085 (2013.01 - EP US); **F27B 3/28** (2013.01 - EP US); **F27D 11/10** (2013.01 - EP US); **F27D 19/00** (2013.01 - EP); **H05B 7/109** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

See references of WO 2021198334A1

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)

EP 3889531 A1 20211006; EP 4127585 A1 20230208; US 2023204291 A1 20230629; WO 2021198334 A1 20211007

DOCDB simple family (application)

EP 20167232 A 20200331; EP 2021058436 W 20210331; EP 21715620 A 20210331; US 202117915382 A 20210331