

Title (en)

A METHOD AND A SYSTEM MEASURING LIQUID AND SOLID MATERIALS IN THE PROCESS OF CONVERTING IRON TO STEEL IN METALLURGICAL VESSELS OR FURNACES

Title (de)

VERFAHREN UND SYSTEM ZUR MESSUNG VON FLÜSSIGEN UND FESTEN MATERIALIEN IM PROZESS DER UMWANDLUNG VON EISEN ZU STAHL IN METALLURGISCHEN GEFÄßEN ODER ÖFEN

Title (fr)

PROCÉDÉ ET SYSTÈME DE MESURE DE MATÉRIAUX LIQUIDES ET SOLIDES DANS LE PROCESSUS DE CONVERSION DE FER EN ACIER DANS DES CUVES OU FOURS MÉTALLURGIQUES

Publication

EP 3380818 A1 20181003 (EN)

Application

EP 16800956 A 20161123

Priority

- EP 15196040 A 20151124
- EP 2016078551 W 20161123

Abstract (en)

[origin: WO2017089396A1] The present disclosure relates to methods and a system (1) for converting iron to steel in a metallurgical container (3). A plurality of AC transmitting and receiving coils (11; 11T, 11R) is arranged in the walls (5) of the container (3) in different positions and orientations with respect to the container axis (A). A filling level (L1, L2) of an electrically conductive material and/or a dielectric material in the container (3) is determined on the basis of AC signal reception data.

IPC 8 full level

G01F 23/26 (2006.01); **G01F 23/284** (2006.01)

CPC (source: EP)

C21C 5/4673 (2013.01); **F27D 21/00** (2013.01); **F27D 21/0028** (2013.01); **G01F 23/261** (2013.01); **G01F 23/2845** (2013.01); **C21C 2005/5288** (2013.01); **C21C 2300/04** (2013.01); **Y02P 10/20** (2015.11)

Citation (search report)

See references of WO 2017089396A1

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 2017089396 A1 20170601; CN 108291831 A 20180717; EP 3380818 A1 20181003; JP 2019501299 A 20190117

DOCDB simple family (application)

EP 2016078551 W 20161123; CN 201680067993 A 20161123; EP 16800956 A 20161123; JP 2018545690 A 20161123