



(11) **EP 3 208 014 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(48) Corrigendum issued on:
31.07.2019 Bulletin 2019/31

(45) Date of publication and mention
of the grant of the patent:
26.06.2019 Bulletin 2019/26

(21) Application number: **15851433.1**

(22) Date of filing: **14.10.2015**

(51) Int Cl.:
B22D 11/16 ^(2006.01) **B22D 11/18** ^(2006.01)
G01F 23/22 ^(2006.01) **B22D 11/041** ^(2006.01)

(86) International application number:
PCT/JP2015/079040

(87) International publication number:
WO 2016/060164 (21.04.2016 Gazette 2016/16)

(54) **DEVICE, METHOD, AND PROGRAM FOR DETECTING MOLTEN-METAL SURFACE LEVEL IN CONTINUOUS CASTING MOLD**

VORRICHTUNG, VERFAHREN UND PROGRAMM ZUR ERKENNUNG EINER GESCHMOLZENEN METALLOBERFLÄCHE IN EINER STRANGGUSSFORM

DISPOSITIF, PROCÉDÉ ET PROGRAMME POUR LA DÉTECTION DE NIVEAU DE SURFACE DE MÉTAL EN FUSION DANS UN MOULE DE COULÉE CONTINUE

(84) Designated Contracting States:
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

(30) Priority: **15.10.2014 JP 2014210712**

(43) Date of publication of application:
23.08.2017 Bulletin 2017/34

(73) Proprietor: **Nippon Steel Corporation**
Tokyo (JP)

(72) Inventors:
• **NAKAGAWA, Junichi**
Tokyo 100-8071 (JP)

• **HIRAMOTO, Yuuji**
Tokyo 100-8071 (JP)

(74) Representative: **Vossius & Partner**
Patentanwälte Rechtsanwälte mbB
Siebertstrasse 3
81675 München (DE)

(56) References cited:
JP-A- H02 251 346 JP-A- H08 281 402
JP-A- 2004 025 202 JP-A- 2004 025 202
JP-A- 2011 245 507 US-A- 4 126 041
US-A- 4 729 420

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 208 014 B8