

Title (en)  
PLATE WARP CORRECTION DEVICE FOR METAL PLATES AND CONTINUOUS PLATING PROCESSING EQUIPMENT FOR METAL PLATES

Title (de)  
PLATTENKRÜMMUNGSKORREKTURVORRICHTUNG FÜR METALLPLATTEN UND AUSRÜSTUNG ZUR BEARBEITUNG DER KONTINUIERLICHEN BESCHICHTUNG FÜR METALLPLATTEN

Title (fr)  
DISPOSITIF DE CORRECTION DE GAUCHISSEMENT DE PLAQUE POUR PLAQUES MÉTALLIQUES ET ÉQUIPEMENT DE TRAITEMENT DE PLACAGE CONTINU POUR PLAQUES MÉTALLIQUES

Publication  
**EP 3686311 B1 20210623 (EN)**

Application  
**EP 17933221 A 20171130**

Priority  
JP 2017043023 W 20171130

Abstract (en)  
[origin: EP3686311A1] A warpage correction apparatus for a metal strip to be used in a continuous plating facility for the metal strip includes a sink roll disposed downstream of a fixed roll, configured to change the conveying direction of the metal strip, with respect to a conveying direction of the metal strip and inside a molten metal pot for plating, and a correction roll disposed between the fixed roll and the sink roll and configured to correct warpage of the metal strip. A ratio D3/D1 of a diameter D3 of the sink roll to a diameter D1 of the fixed roll is not less than 1.5.

IPC 8 full level  
**C23C 2/06** (2006.01); **B21D 1/02** (2006.01); **B21D 1/05** (2006.01); **C23C 2/00** (2006.01); **C23C 2/12** (2006.01); **C23C 2/20** (2006.01); **C23C 2/40** (2006.01)

CPC (source: EP US)  
**B21D 1/02** (2013.01 - EP US); **B21D 1/05** (2013.01 - EP US); **C23C 2/00344** (2022.08 - EP US); **C23C 2/0035** (2022.08 - EP US); **C23C 2/0038** (2022.08 - EP US); **C23C 2/004** (2022.08 - EP US); **C23C 2/022** (2022.08 - EP US); **C23C 2/06** (2013.01 - EP); **C23C 2/12** (2013.01 - EP); **C23C 2/20** (2013.01 - EP); **C23C 2/40** (2013.01 - EP US); **C23C 2/06** (2013.01 - US); **C23C 2/20** (2013.01 - 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

DOCDB simple family (publication)  
**EP 3686311 A1 20200729; EP 3686311 A4 20200729; EP 3686311 B1 20210623**; CN 111295461 A 20200616; JP 6381858 B1 20180829; JP WO2019106785 A1 20191212; US 2020261957 A1 20200820; WO 2019106785 A1 20190606

DOCDB simple family (application)  
**EP 17933221 A 20171130**; CN 201780096430 A 20171130; JP 2017043023 W 20171130; JP 2018513689 A 20171130; US 201716757598 A 20171130