

Title (en)

PLATED STEEL PLATE FIRST COOLING DEVICE, PLATING FACILITY, AND PLATED STEEL PLATE COOLING METHOD

Title (de)

ERSTKÜHLVORRICHTUNG FÜR PLATTIERTE STAHLPLATTE, PLATTIERUNGSANLAGE UND KÜHLVERFAHREN FÜR PLATTIERTE STAHLPLATTE

Title (fr)

DISPOSITIF DE PREMIER REFROIDISSEMENT DE TÔLE D'ACIER PLAQUÉE, INSTALLATION DE GALVANISATION, ET PROCÉDÉ DE REFROIDISSEMENT À TÔLE D'ACIER PLAQUÉE

Publication

**EP 3492619 A4 20190605 (EN)**

Application

**EP 17834838 A 20170731**

Priority

- KR 20160096736 A 20160729
- KR 20160116656 A 20160909
- KR 2017008262 W 20170731

Abstract (en)

[origin: EP3492619A1] A plated steel plate first cooling device according to an embodiment of the present invention comprises: a cooling water spraying unit for spraying cooling water to a plated steel plate; and an electrifying unit arranged on at least one side of the cooling water spraying unit so as to electrify the cooling water. The plated steel plate first cooling device according to an embodiment of the present invention may be characterized in that the cooling water spraying unit is installed such that the cooling water is sprayed while being electrified by the electrifying unit.

IPC 8 full level

**C23C 2/00** (2006.01); **C23C 2/20** (2006.01); **C23C 2/26** (2006.01); **C23C 2/40** (2006.01)

CPC (source: EP)

**C23C 2/20** (2013.01); **C23C 2/40** (2013.01)

Citation (search report)

- [XAI] KR 100504370 B1 20050728
- [XA] WO 2006070995 A1 20060706 - POSCO [KR], et al
- [XA] KR 20100076811 A 20100706 - POSCO [KR]
- [XA] KR 20110015181 A 20110215 - POSCO [KR], et al
- [X] KR 100415677 B1 20040131
- See references of WO 2018021898A1

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)

**EP 3492619 A1 20190605; EP 3492619 A4 20190605**; CN 109563604 A 20190402; MX 2019001068 A 20190812; WO 2018021898 A1 20180201

DOCDB simple family (application)

**EP 17834838 A 20170731**; CN 201780045895 A 20170731; KR 2017008262 W 20170731; MX 2019001068 A 20170731