

Title (en)

METHOD OF MANUFACTURING A STEEL PLATE

Title (de)

HERSTELLUNGSVERFAHREN EINER STAHLPLATTE

Title (fr)

PROCÉDÉ DE FABRICATION DE PLAQUE D'ACIER

Publication

EP 2412455 B1 20180314 (EN)

Application

EP 10756268 A 20100323

Priority

- JP 2010055497 W 20100323
- JP 2009073994 A 20090325
- JP 2010006722 A 20100115

Abstract (en)

[origin: EP2412455A1] A facility is provided for manufacturing a steel plate excellent in steel plate shape and mechanical property while setting low cooling-water spraying performance in a descaling step and achieving uniform cooling in a cooling step. Specifically, a hot rolling mill 3, a first hot leveler 5, a descaler 4, and cooling equipment 6 are arranged in that order from the upstream side in a conveying direction. A pressure P [MPa] at the point of impact of cooling water sprayed from the descaler to each surface of a steel plate 1 is greater than or equal to 1.5 MPa.

IPC 8 full level

B21B 45/02 (2006.01); **B21B 39/00** (2006.01); **B21B 45/08** (2006.01)

CPC (source: EP KR US)

B21B 39/00 (2013.01 - KR); **B21B 45/02** (2013.01 - KR); **B21B 45/08** (2013.01 - EP KR US); **B21B 39/08** (2013.01 - EP US); **B21B 45/0218** (2013.01 - EP US)

Citation (opposition)

Opponent : SMS group GmbH

- JP 2002172415 A 20020618 - NIPPON STEEL CORP
- JP 2000271627 A 20001003 - NIPPON STEEL CORP
- US 5884643 A 19990323 - SHIMIZU MASUTO [JP], et al
- JP H07232207 A 19950905 - NIPPON STEEL CORP
- US 2012017660 A1 20120126 - KUROKI TAKASHI [JP], et al

Cited by

EP3187275A4; EP4066956A4; EP3195946A4; EP2979770A4; WO2014023753A1; EP2882542B1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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