

Title (en)

PROCESSES FOR PRODUCTION OF STEEL SHEETS FOR CANS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON STAHLBLECHEN FÜR BECHER

Title (fr)

PROCÉDÉ POUR LA FABRICATION DE FEUILLES D'ACIER POUR BOÎTES MÉTALLIQUES

Publication

EP 2123780 A4 20101027 (EN)

Application

EP 08711889 A 20080219

Priority

- JP 2008053125 W 20080219
- JP 2007041065 A 20070221

Abstract (en)

[origin: EP2123780A1] A high-strength tin mill black plate is manufactured so as to have a tensile strength of 550 to 650 MPa and a total elongation of 5% or more in such a manner that hot rolling is performed at a finishing temperature higher than or equal to an Ar 3 transformation point, cold rolling is performed, and recovery annealing is performed at a temperature 20°C to 200°C lower than a recrystallization starting temperature. Furthermore, a tin mill black plate is manufactured so as to have a tensile strength of 550 to 700 MPa and a total elongation of 4% or more and be capable of being manufactured by annealing at the same temperature as that of an ordinary tin mill black plate in such a manner that a steel sheet containing at least one of 0.001% to 0.05% Nb and 0.0001% to 0.005% B.

IPC 8 full level

C21D 9/46 (2006.01); **C21D 8/02** (2006.01); **C22C 38/12** (2006.01)

CPC (source: EP KR)

C21D 8/02 (2013.01 - EP); **C21D 8/0426** (2013.01 - KR); **C21D 8/0436** (2013.01 - KR); **C21D 8/0473** (2013.01 - KR); **C21D 9/46** (2013.01 - EP); **C21D 9/48** (2013.01 - KR); **C22C 38/004** (2013.01 - KR); **C22C 38/04** (2013.01 - EP KR); **C22C 38/06** (2013.01 - EP KR)

Citation (search report)

- [X] EP 0556834 A2 19930825 - KAWASAKI STEEL CO [JP]
- [X] JP H10330882 A 19981215 - NIPPON STEEL CORP
- [L] WO 2008075444 A1 20080626 - JFE STEEL CORP [JP], et al
- [A] JP 2007009271 A 20070118 - JFE STEEL KK
- See references of WO 2008102899A1

Cited by

EP2123780B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2123780 A1 20091125; **EP 2123780 A4 20101027**; **EP 2123780 B1 20151202**; CN 101578381 A 20091111; CN 101578381 B 20130619; JP 2008202113 A 20080904; JP 5076544 B2 20121121; KR 101128315 B1 20120412; KR 20090084885 A 20090805; WO 2008102899 A1 20080828

DOCDB simple family (application)

EP 08711889 A 20080219; CN 200880001425 A 20080219; JP 2007041065 A 20070221; JP 2008053125 W 20080219; KR 20097010592 A 20080219