Title (en)

METHOD FOR PRODUCING CAN MANUFACTURING STEEL SHEET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES STAHLBLECHS ZUR HERSTELLUNG VON DOSEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE TÔLE POUR LA FABRICATION DE BOÎTES

Publication

EP 2275581 A1 20110119 (EN)

Application

EP 09726961 A 20090327

Priority

- JP 2009056908 W 20090327
- JP 2008089924 A 20080331

Abstract (en)

Provided is a method of manufacturing a steel sheet for cans, where excessively high strengthening due to work hardening in cold-rolling is avoided, and thickness variation in the longitudinal direction of a steel sheet coil is inhibited, in a reduction in the steel sheet manufacturing cost by omitting the recrystallization annealing step. The steel compositions contain, in mass%, C: 0.005% or less, Mn: 0.05 to 0.5%, Al: 0.01 to 0.10%, N: 0.0010 to 0.0070%, and B: 0.15xN to 0.75xN (0.20xN to 0.97xN in atomic ratio) and further contain either or both Nb: 4xC to 20×C (0.52xC to 2.58xC in atomic ratio) and Ti: 2xC to 10×C (0.50xC to 2.51×C in atomic ratio), and the balance is Fe and inevitable impurity elements. The steel is continuously cast into a slab, the slab is hot-rolled at a finishing temperature of not higher than Ar 3 transformation point, and the hot-rolled steel sheet is subjected to coiling, pickling, and then cold-rolling at a reduction of 50 to 96%.

IPC 8 full level

C21D 9/46 (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/14** (2006.01)

CPC (source: EP)

C21D 8/02 (2013.01); **C21D 8/0226** (2013.01); **C21D 9/46** (2013.01); **C22C 38/001** (2013.01); **C22C 38/004** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01)

Cited by

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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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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