

Title (en)

Process for manufacturing of steel sheets and steel sheets obtained by this process

Title (de)

Verfahren zur Herstellung von Stahlblechen und Stahlbleche, nach diesem Verfahren hergestellt

Title (fr)

Procédé d'élaboration d'une tôle d'acier et tôle d'acier obtenue par ce procédé

Publication

**EP 0564309 B1 19960605 (FR)**

Application

**EP 93400287 A 19930204**

Priority

FR 9202407 A 19920228

Abstract (en)

[origin: FR2688009A1] Process for producing a sheet from a steel slab, in which a steel is employed whose weight composition is the following: - carbon less than 0.05 % - manganese from 1.5 to 2 % - silicon from 0.1 to 0.5 % - molybdenum from 0.2 to 0.5 % - phosphorus less than 0.03 % - sulphur less than 0.01 % - niobium from 0.04 to 0.06 % - titanium from 0.02 to 0.05 % - aluminium from 0.01 to 0.06 % - boron from 10 to 40 ppm, the nitrogen and titanium contents satisfying the relationship  $3.5 N \leq Ti$ , the remainder consisting of iron and impurities, hot rolling of the steel slab is performed in a wide-strip rolling mill with a degree of cold working in a finishing rolling mill of between 70 and 95 % to obtain, at the exit of the said rolling, a steel sheet whose temperature is between 800 and 900°C, the sheet is cooled with water and air at a cooling rate of between 50 and 150°C/s in the austenitic region and reeling of the sheet cooled to a temperature of between 500 and 600°C is performed.

IPC 1-7

**C22C 38/04**; **C21D 8/02**

IPC 8 full level

**B21C 47/02** (2006.01); **C21D 8/02** (2006.01); **C22C 38/04** (2006.01)

CPC (source: EP)

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