

Title (en)

AUSTENITIC STAINLESS STEEL SHEET AND METHOD FOR OBTAINING THIS SHEET

Title (de)

ROSTFREIES AUSTENITISCHES STAHLBLECH UND HERSTELLUNGSVERFAHREN EINES SOLCHEN BLECHS

Title (fr)

TÔLE EN ACIER INOXYDABLE AUSTENITIQUE ET PROCEDE D'OBTENTION DE CETTE TÔLE

Publication

**EP 2245203 A1 20101103 (FR)**

Application

**EP 08872296 A 20081203**

Priority

- FR 2008001687 W 20081203
- EP 07291575 A 20071220
- EP 08872296 A 20081203

Abstract (en)

[origin: EP2072631A1] Stainless steel sheet comprises: carbon (0.05-0.3 wt.%); silicon (0.3-1 wt.%); manganese (0.5-3 wt.%); nickel (4-10 wt.%); chromium (15-20 wt.%); nitrogen (less than 0.2 wt.%); phosphorus (0.05 wt.%); sulfur (0.015 wt.%); optionally vanadium (0.1-0.5 wt.%); optionally molybdenum (3 wt.%); optionally copper (0.5 wt.%); and the rest of the composition consisting of iron and inevitable impurities resulting from processing, where a microstructure of the steel is mainly austenitic steel, and average size of austenite grains is less than 2 mm. Independent claims are included for: (1) a process for preparing the stainless steel sheet, comprising supplying steel composition, casting the steel in the form of slab, hot rolling the slab to obtain a hot-rolled sheet, annealing the hot rolled sheet at a temperature of greater than 1000[deg] C, pickling the hot-rolled sheet, cold rolling the hot-rolled sheet at a reduction rate of greater than 40%, and carrying out a heat treatment on the cold rolled sheet; (2) an installation for a recrystallization annealing of austenitic stainless steel sheet, comprising a rapid heating device for heating the sheet during the heating phase by electromagnetic induction; and (3) a stainless steel mechanical component obtained from the sheet.

IPC 8 full level

**C22C 38/40** (2006.01); **C21D 8/04** (2006.01); **C21D 9/48** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01)

CPC (source: EP)

**C21D 8/04** (2013.01); **C21D 9/48** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/24** (2013.01); **C22C 38/40** (2013.01); **C22C 38/58** (2013.01)

Citation (search report)

See references of WO 2009101285A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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