

Title (en)

BRUSHING PROCESS FOR CORROSION AND OXIDATION RESISTANCE

Title (de)

BÜRSTVERFAHREN ZUR VERBESSERUNG DES KORROSIONS- UND OXYDATIONSWIDERSTANDES

Title (fr)

PROCEDE DE BROSSAGE AMELIORANT LA RESISTANCE A LA CORROSION ET A L'OXYDATION

Publication

**EP 0923420 A1 19990623 (EN)**

Application

**EP 97954639 A 19971229**

Priority

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- US 9724048 W 19971229

Abstract (en)

Treatment of cold-rolled stainless steel to remove oxidation residue without pickling, involves firstly annealing the steel, wet brushing with an abrasive brush which removes the oxidative residue and polishes the steel to a desired finish having surface roughness (Ra) of 3-38, then passivating. The steel can be slit to the required width and sheared to length, with all treatment steps performed in a continuous operational line, the brushing step performed at a relative surface speed, of roller brush to steel, of between 1400-4000 ft/min and at a pressure of 0.25-2.5 hp/inch. A method of increasing the productivity of a continuous cold-rolled stainless steel finishing line using a method similar to that above is also claimed, together with a manufacturing line for treating cold rolled stainless steel strip without pickling using the methods claimed above.

IPC 1-7

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IPC 8 full level

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