

Title (en)

PROCESS FOR CONTINUOUSLY ANNEALING OF A COLD ROLLED STEEL STRIP

Publication

EP 0032583 B1 19840801 (EN)

Application

EP 80108148 A 19801222

Priority

- JP 16682679 A 19791224
- JP 16682779 A 19791224

Abstract (en)

[origin: EP0032583A1] The present invention involves a concept of combining the following: using instead of a direct fired furnace a radiation heating furnace, thereby preventing the formation of an appreciable oxide layer during the stages for heating to and holding within the requisite annealing temperature range; cooling the annealed steel strip by a cooling medium consisting of a mixture of gas and liquid, and; removing the oxide film formed during the cooling stage, by means of pickling at the final step. In the present invention it is possible to eliminate the surface-quality problems caused by conventional processes and simultaneously to omit the reheating for overaging of the steel strip.

IPC 1-7

C21D 9/52

IPC 8 full level

C21D 9/52 (2006.01)

CPC (source: EP)

C21D 9/52 (2013.01)

Citation (examination)

- DE 2165049 B2 19731115
- Patents Abstracts of Japan, Vol. 1, No. 64, 22 June 1977, page 995C77
- Patents Abstracts of Japan Vol. 4, No. 22, 23 February 1980, page 128C74

Cited by

CN112111638A; EP0157708A3; EP0049729A1; FR2562563A1; CN112593051A; CN115058582A

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