

Title (en)

METHOD FOR MAKING AN ABRASION RESISTANT STEEL PLATE AND PLATE OBTAINED

Title (de)

VERFAHREN ZUM HERSTELLEN EINES ABRIEBFESTEN STAHLBLECHS UND SO HERGESTELLTES STAHLBLECH

Title (fr)

PROCEDE POUR FABRIQUER UNE TOLE EN ACIER RESISTANT A L'ABRASION ET TOLE OBTENUE

Publication

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Application

EP 03782551 A 20031113

Priority

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Abstract (en)

[origin: FR2847270A1] The fabrication of a steel sheet resistant to abrasion consists of subjecting the sheet to a heat treatment in the hot forming operation or after austenite by reheating in a furnace. The hardening process involves: (a) cooling at a medium cooling rate of greater than 0.5 degrees C/s between a temperature greater than Ac3 and a given temperature between T and T-50; (b) then cooling at a core medium cooling rate Vr less than 1150 x ep power -1.7 and greater than 0.1 degrees C/s between the temperature T and 100 degrees C, ep being the thickness of the sheet in mm; and (c) cooling to ambient temperature and possibly performing a planishing operation. The temperature T is defined as being: T = 800 - 270 x C asterisk - 90 x Mn - 37 x Ni - 70 x Cr - 83 x (Mo +W/2). C asterisk = C-Ti/4 -Zr/8 + 7 x N/8.

IPC 1-7

C21D 1/19; C22C 38/14

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CPC (source: EP KR US)

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