

Title (en)  
METHOD FOR PRODUCING A COLD-ROLLED FLAT STEEL PRODUCT FOR DEEP-DRAWING AND IRONING APPLICATIONS, FLAT STEEL PRODUCT AND USE OF SUCH A FLAT STEEL PRODUCT

Title (de)  
VERFAHREN ZUM ERZEUGEN EINES KALTGEWALZTEN STAHLFLACHPRODUKTS FÜR TIEFZIEH- UND ABSTRECKZIEHANWENDUNGEN, STAHLFLACHPRODUKT UND VERWENDUNG EINES SOLCHEN STAHLFLACHPRODUKTS

Title (fr)  
PROCÉDÉ SERVANT À PRODUIRE UN PRODUIT PLAT EN ACIER LAMINÉ À FROID APTE À L'EMBOUTISSAGE ET À L'ÉTIRAGE, PRODUIT PLAT EN ACIER ET UTILISATION D'UN PRODUIT PLAT EN ACIER DE CE TYPE

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Application  
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Abstract (en)  
[origin: WO2014135645A2] The invention relates to a method for the operationally reliable production of a cold-rolled flat steel product  $\leq 0.5$  mm thick for deep-drawing and ironing applications. According to said method, a steel melt, containing (in percent by weight) up to 0.008% C, up to 0.005% Al, up to 0.043% Si, 0.15-0.5% Mn, up to 0.02% P, up to 0.03% S, up to 0.020% N and optionally up to 0.03% Ti and optionally up to 0.03% Nb, and iron and unavoidable impurities as the remainder, is subjected, forgoing a Ca treatment, to a secondary metallurgical treatment, which comprises, in addition to a vacuum treatment, a crucible furnace treatment and during which the steel melt to be treated is kept under a slag, the Mn and Fe content of which is less than 15% by weight in total. From the steel melt, a thin slab or a cast strip is produced, which is then hot-rolled to form a hot-rolled strip having a thickness of  $< 2.5$  mm and then wound to form a coil. Then the hot-rolled strips are cold-rolled to form a flat steel product up to 0.5 mm thick. The invention further relates to a correspondingly produced flat steel product and to uses of such a flat steel product.

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