

Title (en)

METHOD FOR PRODUCING AUSTENITIC IRON-CARBON-MANGANESE METAL SHEETS, AND SHEETS PRODUCED THEREBY

Title (de)

VERFAHREN ZUR HERSTELLUNG VON AUSTENITISCHEN EISEN-KOHLNSTOFF-MANGAN-BLECHEN UND AUF DIESE WEISE HERGESTELLTE BLECHE

Title (fr)

PROCEDE DE FABRICATION DE TOLES D'ACIER AUSTENITIQUE FER-CARBONE-MANGANESE ET TOLES AINSI PRODUITES

Publication

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Application

**EP 06709055 A 20060110**

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Abstract (en)

[origin: WO2006077301A1] The invention relates to an austenitic iron-carbon-manganese metal sheet whose chemical composition comprises the following contents expressed in weight: 0.45 % = C = 0.75 %, 15 % = Mn = 26 %, Si = 3 %, Al = 0.050 %, S = 0.030 %, P = 0.080 %, N = 0.1 %, at least one metallic element selected from the group consisting of vanadium, titanium, niobium, chromium, molybdenum 0.050 % = V = 0.50 %, 0.040 % = Ti = 0.50 %, 0.070 % = Nb = 0.50 %, 0.070 % = Cr = 2 %, 0.14 % = Mo = 2 % and, optionally, one or more elements selected among 0.0005 % = B = 0.003 %, Ni = 1 %, Cu = 5 %, the remainder of the composition consisting of iron and of unavoidable impurities resulting from the processing, the quantity of said at least one metallic element in the form of precipitated carbides, nitrides or carbonitrides being: 0.030 % = V<SUB>p</SUB> = 0.150 %, 0.030 % = Ti<SUB>p</SUB> = 0.130 %, 0.040 % = Nb<SUB>p</SUB> = 0.220 %, 0.070 % = Cr<SUB>p</SUB> = 0.6 %, 0.14 % = Mo<SUB>p</SUB> = 0.44 %.

IPC 8 full level

**C22C 38/04** (2006.01)

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Citation (search report)

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