

Title (en)

METHOD FOR MAKING A STRIP OR A WORKPIECE CUT OUT FROM A COLD ROLLED MARAGING STEEL STRIP

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BANDS ODER EINES AUS EINEM KALTGEWALZTEN BAND AUS MARTENSITAUSHÄRTENDEM STAHL AUSGESCHNITTENEN WERKSTÜCKS

Title (fr)

PROCEDE POUR FABRIQUER UNE BANDE OU UNE PIECE DECOUPEE DANS UNE BANDE EN ACIER MARAGING LAMINEE A FROID

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Application

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Abstract (en)

[origin: WO0240722A1] The invention concerns a method for making a strip or a workpiece cut out from a cold rolled maraging steel strip and hardened by a hardening heat treatment, which consists, prior to the heat treatment, in subjecting the strip or the workpiece to cold plastic deformation with a rate of strain hardening more than 30 % and in subjecting the strip or the workpiece to a recrystallization annealing so as to obtain a fine grain of ASTM index more than 8. The maraging steel composition comprises, by weight: 12 % \leq Ni \leq 24.5 %; 2.5 % \leq Mo \leq 12 %; 4.17 % \leq Co \leq 20 %; Al \leq 0.15 %; Ti \leq 0.1 %; N \leq 0.003 %; Si \leq 0.1 %; Mn \leq 0.1 %; C \leq 0.005 %; S \leq 0.001 %; P \leq 0.005 %; H \leq 0.0003 %; O \leq 0.001 %; the rest being iron and impurities resulting from preparation of the composition, the composition further satisfying the following relationships: 20 % \leq Ni + Mo \leq 27 %; 50 \leq Co x Mo \leq 200; Ti x N \leq 2 x 10⁻⁴. The invention also concerns the resulting strip.

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See references of WO 0240722A1

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WO2017064684A1; WO2017064537A1; WO2016170397A1; CN114807776A; CN108138286A; CN116024505A; WO2016170519A1; US10731231B2

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