

Title (en)  
STEEL FOR MANUFACTURING CARBURIZED STEEL PARTS, CARBURIZED STEEL PARTS PRODUCED WITH SAID STEEL, AND METHOD FOR MANUFACTURING SAME

Title (de)  
STAHL ZUR HERSTELLUNG AUFGEKOHLTER STAHLTEILE, AUS DIESEM STAHL HERGESTELLTE AUFGEKOHLTE STAHLTEILE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ACIER POUR LA FABRICATION DE PIÈCES CÉMENTÉES, PIÈCE CÉMENTÉE RÉALISÉE AVEC CET ACIER ET SON PROCÉDÉ DE FABRICATION

Publication  
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Application  
**EP 12750727 A 20120808**

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Abstract (en)  
[origin: WO2013021009A1] The invention relates to steel for manufacturing carburized steel parts, characterized in that the composition thereof is: 0.1 wt % = C = 0.15 wt %; 0.8 wt % = Mn = 2 wt %; 1 wt % = Cr = 2.5 wt %; 0.2 wt % = Mo = 0.6 wt %; trace elements = Si = 0.35 wt %; trace elements = Ni = 0.7 wt %; trace elements = B = 0.005 wt %; trace elements = Ti = 0.1 wt %; trace elements = N = 0.01 wt % if 0.0005 wt % (5ppm) = B = 0.005 wt %, and trace elements = N = 0.02 wt % if trace elements = B = 0.0005 wt % (5ppm); - traces = Al = 0.1 wt %; trace elements = V = 0.3 wt %; trace elements = P = 0.025 wt %; trace elements = Cu = 1 wt %, preferably < 0.6 wt %; and trace elements = S = 0.1 wt %, the remainder being iron and impurities resulting from production. The invention also relates to a carburized steel part produced with said steel, and to the method for manufacturing same.

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