

Title (en)

STEEL ALLOY FOR CUTTING DETAILS

Title (de)

STAHLLEGIERUNG ZUM DETAILSCHNEIDEN

Title (fr)

ALLIAGE A BASE D'ACIER POUR LE DECOUPAGE DE PIECES MECANIQUES

Publication

**EP 1735478 A1 20061227 (EN)**

Application

**EP 05728087 A 20050322**

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Abstract (en)

[origin: WO2005093112A1] The invention relates to a steel alloy of the following composition (in % by weight) C 0,40-0,60 Si 0,1-1,0 Mn 0,3-1,0 Cr 12-15 MO 2,5-4,0 Ni 0-1,0 Co 0-4,0 N 0,15-0,20, with the balance Fe as well as normally occurring impurities, the hardness being > 56 HRC, which has been attained without deep freezing, as well as PRE > 25, defined as PRE = % Cr + 3,3 . % Mo + 16 . % N. Furthermore, the steel alloy comprises carbides, nitrides and/or carbonitrides the maximal diameter of which does not exceed 5 µm. This steel alloy has turned out surprisingly well suitable as edge material for a plurality of cutting operations.

IPC 8 full level

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IPC 8 main group level

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