

Title (en)

Process for producing high strength austenitic stainless steel

Title (de)

Verfahren zur Herstellung höherfester nichtrostender austenitischer Stähle

Title (fr)

Procédé de fabrication d'acier inoxydable austénitique à haute résistance mécanique

Publication

EP 1152065 A3 20040102 (DE)

Application

EP 01110579 A 20010430

Priority

DE 10021323 A 20000502

Abstract (en)

[origin: EP1152065A2] Production of a high strength austenitic steel comprises rolling or forging the steel at deformation temperatures below the solution annealing temperature (1000-1100 degrees C); and producing a very fine non-recrystallizable structure by rapidly cooling in air and/or water. Preferred Features: The steel has an offset yield stress of 300-800 N/mm² and a tensile strength of 600-1000 N/mm² at breaking elongations of 40-20 %.

IPC 1-7

C21D 8/00; C21D 6/00; C21D 8/08; C21D 9/00

IPC 8 full level

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CPC (source: EP)

C21D 8/005 (2013.01); **C21D 8/08** (2013.01); **C22C 38/40** (2013.01); **C21D 9/0093** (2013.01)

Citation (search report)

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