

Title (en)

UNMAGNETIZABLE CAST STEEL ALLOY, USE AND MAKING THEREOF.

Title (de)

NICHTMAGNETISIERBARE STAHLGUSSLEGIERUNG, DEREN VERWENDUNG UND HERSTELLUNGSVERFAHREN.

Title (fr)

ALLIAGE ACIER-COULE NON MAGNETISABLE, UTILISATION ET PROCEDE DE FABRICATION.

Publication

EP 0006953 A4 19800109 (DE)

Application

EP 78900291 A 19790621

Priority

- CH 72678 A 19780124
- CH 1464777 A 19771130

Abstract (en)

[origin: WO7900328A1] An unmagnetizable cast steel alloy having the composition C max. 0.30%, Si max. 2.00%, Mn 4.00-20.00%, Cr 10.00-20.00%, Ni 4.00-12.00%, Mo max. 3.00%, N<u2>u 0.02-0.20% the remainder being iron, with a magnetic permeability //c </= 1.20 and a Cr NiMn equivalence factor f = 6.5% Cr -0.4.% Ni + 0.1% Mn + 0.075.% Cr .% Ni + 0.013.% Cr .% Mn 0.02.% Ni.% Mn wherein -6 </= f </= + 2 fulfills in an optimum way the whole of the following properties: low permeability; homogeneous resistance and hardness; stable flexibility at low temperatures; homogeneous magnetic permeability in big solidified sections; high capability to form chips and good weldability without microfissure and a sufficient limit to elongation. Other points of the invention relate to the use of these alloys in presence of intense magnetic fields and also to a process according to which after welding the alloy is heat-treated

IPC 8 full level

C22C 38/58 (2006.01)

CPC (source: EP US)

C22C 38/58 (2013.01 - EP US); **Y10S 376/906** (2013.01 - EP)

Cited by

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DOCDB simple family (publication)

WO 7900328 A1 19790614; EP 0006953 A1 19800123; EP 0006953 A4 19800109; IT 1108126 B 19851202; IT 7868152 A0 19780519; US 4285725 A 19810825

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