

Title (en)

SOFT MAGNETIC FERRITIC CHROMIUM STEEL

Title (de)

WEICHMAGNETISCHER FERRITISCHER CHROMSTAHL

Title (fr)

ACIER CHROMÉ FERRITIQUE MAGNÉTIQUE DOUX

Publication

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Application

EP 10771635 A 20100823

Priority

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- EP 2010005150 W 20100823

Abstract (en)

[origin: WO2011023349A1] A soft magnetic ferritic chromium steel having at most 0.025% carbon, at most 0.02% nitrogen, 0.5 to 1.8% silicon, 0.30 to 1.5% manganese, 0.20 to 0.35% sulfur, 12.0 to 18.0% chromium, 0.05 to 0.8% copper, 0.5 to 3.0% molybdenum, 0.02 to 0.35% niobium, 0.4 to 1.2% vanadium, up to 0.6% titanium, 0.001 to 0.02% aluminum, up to 0.2% calcium, 0.01 to 1.0% nickel, 0.01 to 0.4% cobalt, and up to 0.004% boron is suitable as a corrosion-resistant, low-burr micro-machinable material having a low coercive force, in particular for functional magnetic elements, for example for producing magnetic valves, motor vehicle injection systems, control valves, magnetic field shields in plasma chambers and physical devices.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2011023349A1

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