

Title (en)

HIGH-NITROGEN AND HIGH-CHROMIUM PLASTIC DIE STEEL, AND SMELTING METHOD AND THERMAL PROCESSING METHOD THEREFOR

Title (de)

STICKSTOFFREICHER UND CHROMREICHER KUNSTSTOFFMATRIZENSTAHL UND SCHMELZVERFAHREN UND WÄRMEBEARBEITUNGSVERFAHREN DAFÜR

Title (fr)

ACIER À MATRICE PLASTIQUE À TENEUR EN AZOTE ÉLEVÉE ET À TENEUR EN CHROME ÉLEVÉE, ET PROCÉDÉ DE FUSION ET PROCÉDÉ DE TRAITEMENT THERMIQUE POUR CELUI-CI

Publication

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Application

**EP 19889385 A 20191012**

Priority

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Abstract (en)

High-nitrogen and high-chromium plastic die steel, and a smelting method and a thermal processing method therefor. The high-nitrogen and high-chromium plastic die steel comprises the chemical components in percentage by weight: 0.25-0.35% of C, 0.45-0.8% of Si, 0.4-0.7% of Mn, 16.5-17.5% of Cr, 0.1-0.3% of Ni, 0.1-0.5% of Mo, 0.06-0.10% of N, and the balance being Fe and inevitable impurity elements. The thermal processing comprises spheroidizing annealing and isothermal quenching-tempering. The plastic die steel has good corrosion resistance.

IPC 8 full level

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CPC (source: CN EP KR)

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