

Title (en)
NICKEL-BASED ALLOY WITH SILICON, ALUMINUM, AND CHROMIUM

Title (de)
NICKELBASISLEGIERUNG MIT SILIZIUM, ALUMINIUM UND CHROM

Title (fr)
ALLIAGE À BASE DE NICKEL CONTENANT DU SILICIUM, DE L'ALUMINIUM ET DU CHROME

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Application
EP 14709528 A 20140128

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Abstract (en)
[origin: WO2014139490A1] The invention relates to a nickel-based alloy, consisting of (in mass%) 1.5 - 3.0% Si, 1.5 - 3.0% Al, and > 0.1 - 3.0% Cr, where $Al + Si + Cr \geq 4.0$ and ≤ 8.0 for the contents of Si, Al, and Cr in %; 0.005 - 0.20% Fe, 0.01 - 0.20% Y, and < 0.001 - 0.20% of one or more the elements Hf, Zr, La, Ce, Ti, where $Y + 0.5 \cdot Hf + Zr + 1.8 \cdot Ti + 0.6 \cdot (La + Ce) \geq 0.02$ and ≤ 0.30 for the contents of Y, Hf, Zr, La, Ce, and Ti in %; 0.001 - 0.10% C; 0.0005 - 0.10% N; 0.001 - 0.20% Mn; 0.0001 - 0.08 % Mg; 0.0001 - 0.010% O; max. 0.015% S; max. 0.80% Cu; Ni remainder; and the usual production-related impurities.

IPC 8 full level
C22C 19/03 (2006.01); **H01T 13/39** (2006.01)

CPC (source: EP RU US)
C22C 19/057 (2013.01 - EP RU US); **C22C 19/058** (2013.01 - EP RU US); **H01T 13/39** (2013.01 - EP RU US)

Citation (search report)
See references of WO 2014139490A1

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