

Title (en)
Malleable nickel alloy

Title (de)
Knetbare Nickellegierung

Title (fr)
Alliage de nickel malléable

Publication
EP 0752481 A1 19970108 (DE)

Application
EP 96106945 A 19960503

Priority
DE 19524234 A 19950704

Abstract (en)
Kneadable carbide-strengthened austenitic Ni alloy consists of (in wt.%): 0.2-0.4C (with a depositable amt. of C (C*)=Cges - (Cgelost + Cgeb.ti + Cgeb.nb + Cgeb.zr) = 0.083-0.300% (where, Cges is not given; Cgelost = dissolved amt. of C at 1000 degrees C in %; Cgeb.ti = amt. of C in % stoichiometrically bound by Ti; Cgeb.ni = amt. of C in % stoichiometrically bound by Ni; Cgen.zr = amt. of C in % stoichiometrically bound by Zr); 25-30 Fe; 8-11 Al, greater than 2.4-3Y; 0.01-0.20 Ti; 0.01-0.2 Nb; 0.01-0.10 Zr; 0.001-0.015 Mg; 0.001-0.01 Ca; max. 0.03 N; max. 0.5 Si; max. 0.25 Mn; max. 0.02 P; max. 0.01 S; a balance of Ni; and unavoidable impurities.

Abstract (de)
Die Erfindung betrifft eine hochtemperaturbeständige Nickellegierung mit (in Masse-%) 0,20 bis 0,40 %: Kohlenstoff; 25 bis 30,0 %: Eisen, 8 bis 11,0 %: Aluminium, mehr als 2,4 bis 3,0 %: Yttrium als Hauptlegierungsbestandteilen sowie kleineren Mengen an Titan, Niob, Zirkonium, Magnesium, Calcium.

IPC 1-7
C22C 19/05

IPC 8 full level
C22C 19/05 (2006.01)

CPC (source: EP KR US)
C22C 19/05 (2013.01 - KR); **C22C 19/058** (2013.01 - EP US)

Citation (search report)
• [DX] EP 0508058 A1 19921014 - KRUPP VDM GMBH [DE]
• [A] EP 0549286 A1 19930630 - INCO ALLOYS LTD [GB]
• [A] EP 0611938 A1 19940824 - THOMAS ROBERT METALL ELEKTRO [DE]
• [A] EP 0338574 A1 19891025 - INCO ALLOYS INT [US]
• [DA] US 4784830 A 19881115 - GANESAN PASUPATHY [US], et al
• [DA] US 3607243 A 19710921 - EISELSTEIN HERBERT L, et al

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