

Title (en)

Nickel base alloy of the quaternary system Ni-Fe-Cr-Mo, gamma prime precipitation-hardening and resisting to corrosive environments, typically occurring in the oil industry

Title (de)

Legierung auf Nickelbasis im quaternären System Ni-Fe-Cr-Mo, welche durch Gamma-prime-Ausscheidung gehärtet, sowie gegen Korrosion beständig ist und vorzugsweise in der Petrol-Industrie zum Einsatz kommt

Title (fr)

Alliage à base de nickel du système quaternaire Ni-Fe-Cr-Mo à durcissement par précipitation de phase gamma prime et résistant aux modes de corrosion rencontrés notamment dans l'industrie pétrolière

Publication

EP 0601915 B1 19980826 (FR)

Application

EP 93402918 A 19931202

Priority

FR 9214828 A 19921209

Abstract (en)

[origin: EP0601915A1] Alloy composition comprising, expressed by weight, - 42 to 49 % of nickel - 3.8 to 5 % of molybdenum - 19.5 to 22.5 % of chromium - 1.0 to 1.5 % of copper - less than 0.020 % of carbon - 1.5 to 2.5 % of titanium - 0.5 to 1 % of aluminium, - less than 0.1 % of manganese - less than 0.1 % of silicon - less than 0.010 % of sulphur - less than 0.020 % of phosphorus - the remainder consisting of iron and impurities. Process for conversion of an alloy of abovementioned composition; article made of such an alloy; and use of such an alloy in corrosion conditions under stress.

IPC 1-7

C22C 30/00; **C22C 19/05**

IPC 8 full level

C22C 19/05 (2006.01); **C22C 30/00** (2006.01)

CPC (source: EP)

C22C 19/055 (2013.01); **C22C 19/056** (2013.01); **C22C 30/00** (2013.01)

Cited by

CN111778439A; EP2222884A4; EP2845916A3; JPWO2017168904A1; WO2017168904A1; US9017490B2; US10100392B2

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