

Title (en)
NI-BASED ALLOY TUBE AND WELDED JOINT

Title (de)
NI-BASIERTE LEGIERUNG UND SCHWEISSVERBINDUNG

Title (fr)
TUBE D'ALLIAGE À BASE DE NI ET JOINT SOUDÉ

Publication
EP 3913103 A1 20211124 (EN)

Application
EP 21175398 A 20210521

Priority
JP 2020089754 A 20200522

Abstract (en)
A Ni-based alloy tube includes a chemical composition containing, in mass%, C: 0.001 to 0.050%, Si: 0.05 to 0.50%, Mn: 0.05 to 1.00%, P: 0.025% or less, S: 0.0001 to 0.0030%, Fe: 18.0 to 40.0%, Cu: 1.50 to 3.00%, Co: 0.01 to 0.80%, Cr: 19.5 to 23.5%, Mo: 2.4 to 3.6%, W: 0.01 to 0.80%, Ti: 0.50 to 1.20%, N: 0.0010 to 0.0200%, Al: 0.001 to 0.200%, O: 0.0004 to 0.0120%, and Sn: 0 to 0.030%, with the balance: Ni and impurities, and satisfying $[0.0010 \leq S + 2O + 0.2Sn \leq 0.0220]$.

IPC 8 full level
C22C 19/05 (2006.01); **C22C 30/00** (2006.01); **C22F 1/10** (2006.01)

CPC (source: CN EP)
C22C 19/055 (2013.01 - CN EP); **C22C 30/00** (2013.01 - EP); **C22C 30/02** (2013.01 - CN); **C22C 30/04** (2013.01 - CN); **C22F 1/10** (2013.01 - EP)

Citation (applicant)

- JP S54110918 A 19790830 - CABOT CORP
- JP S6389637 A 19880420 - INCO ALLOYS INT
- JP H02156034 A 19900615 - INCO ALLOYS INT
- JP H03173732 A 19910729 - HAYNES INT INC
- JP H05271832 A 19931019
- JP H0987786 A 19970331 - SUMITOMO METAL IND
- JP H1030140 A 19980203 - SUMITOMO METAL IND
- JP 2012072446 A 20120412 - SUMITOMO CHEMICAL CO

Citation (search report)

- [I] WO 2018002328 A1 20180104 - SANDVIK INTELLECTUAL PROPERTY [SE]
- [A] EP 2415883 A1 20120208 - SUMITOMO METAL IND [JP]
- [A] EP 1637785 A1 20060322 - SUMITOMO METAL IND [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3913103 A1 20211124; CN 113718134 A 20211130; JP 2021183721 A 20211202

DOCDB simple family (application)
EP 21175398 A 20210521; CN 202110556605 A 20210521; JP 2021083315 A 20210517