

Title (en)
CORROSION-RESISTANT ALLOY

Title (de)
KORROSIONSBESTÄNDIGE LEGIERUNG

Title (fr)
ALLIAGE RÉSISTANT À LA CORROSION

Publication
EP 3663422 A4 20210120 (EN)

Application
EP 17919968 A 20171229

Priority
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Abstract (en)
[origin: EP3663422A1] The invention relates to metallurgy and more particularly to nickel-based alloys intended for use in aggressive oxidising environments. The present nickel-based corrosion-resistant alloy contains: ≤ 0.006 wt.% carbon, ≤ 0.1 wt.% silicon, ≤ 1.0 wt.% manganese, 22.8-24.0 wt.% chromium, ≤ 0.75 wt.% iron, 12.0-14.0 wt.% molybdenum, 0.01-0.03 wt.% niobium, 0.01-0.06 wt.% titanium, 0.1-0.2 wt.% aluminium, 0.005-0.01 wt.% magnesium, ≤ 0.015 wt.% phosphorus and < 0.012 wt.% sulphur, with the remainder being nickel and unavoidable impurities.

IPC 8 full level
C22C 19/05 (2006.01)

CPC (source: EP KR RU US)
C22C 19/055 (2013.01 - EP KR RU US); **C22F 1/10** (2013.01 - KR)

Citation (search report)
• [A] EP 0247577 A1 19871202 - CARPENTER TECHNOLOGY CORP [US]
• [A] WO 9855661 A1 19981210 - KRUPP VDM GMBH [DE], et al
• [A] US 4906437 A 19900306 - HEUBNER ULRICH [DE], et al
• [A] JP 2015183290 A 20151022 - NIPPON YAKIN KOGYO CO LTD
• See references of WO 2019027347A1

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

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EP 3663422 A1 20200610; EP 3663422 A4 20210120; BR 112019028257 A2 20200804; CA 3093022 A1 20190207; CA 3093022 C 20230808; CN 111094603 A 20200501; CN 111094603 B 20211207; EA 201992733 A1 20210420; JO P20190301 A1 20191230; JP 2020530064 A 20201015; JP 6974507 B2 20211201; KR 20200060694 A 20200601; MY 192470 A 20220822; RU 2672647 C1 20181116; US 2021164075 A1 20210603; WO 2019027347 A1 20190207; WO 2019027347 A8 20200910

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