

Title (en)
FOUNDRY ALLOYS FOR HIGH-PRESSURE VACUUM DIE CASTING

Title (de)
GIESSEREILEGIERUNGEN ZUM HOCHDRUCKVAKUUMGIESSEN

Title (fr)
ALLIAGES DE FONDERIE DESTINÉS AU COULAGE SOUS VIDE À HAUTE PRESSION

Publication
EP 3914747 A4 20221102 (EN)

Application
EP 20744830 A 20200124

Priority

- US 201962796735 P 20190125
- CA 2020050082 W 20200124

Abstract (en)
[origin: WO2020150830A1] The present disclosure concerns a cast aluminum alloy for making cast aluminum products, especially using high-pressure vacuum die casting operations. The cast aluminum alloy comprises, in weight percent: Ni between about 1.5 and about 6.5; Si between about 0.10 and 1.5; Mg between about 0.10 and about 3; Fe up to about 0.2; Mn up to about 0.65; Ti up to about 0.12; V up to about 0.15; Zr up to about 0.15; Mo up to about 0.15; Cr up to about 0.01; Sr up to about 0.02; and the balance being aluminum and unavoidable impurities.

IPC 8 full level
C22C 21/00 (2006.01); **B22D 21/04** (2006.01); **C22C 21/02** (2006.01); **C22C 21/04** (2006.01); **C22C 21/08** (2006.01); **C22F 1/04** (2006.01); **C22F 1/047** (2006.01)

CPC (source: EP KR US)
B22D 21/007 (2013.01 - KR); **B22D 21/04** (2013.01 - EP); **C22C 21/00** (2013.01 - EP KR US); **C22C 21/08** (2013.01 - EP); **C22F 1/04** (2013.01 - EP US); **C22F 1/047** (2013.01 - EP)

Citation (search report)

- [XI] JP S6389640 A 19880420 - SKY ALUMINIUM & WO 8802411 A1 19880407 - SKY ALUMINIUM [JP]
- [X] DE 1297872 B 19690619 - ALUMINIUM GIESSEREI VILLINGEN
- [X] US 4976918 A 19901211 - NISHI NAOMI [JP], et al
- [A] US 3384477 A 19680521 - ZUECH ROMEO A
- See also references of WO 2020150830A1

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

DOCDB simple family (publication)
WO 2020150830 A1 20200730; CA 3125339 A1 20200730; EP 3914747 A1 20211201; EP 3914747 A4 20221102; JP 2022517830 A 20220310; JP 7565284 B2 20241010; KR 20210118852 A 20211001; MX 2021008718 A 20210824; US 2022090234 A1 20220324

DOCDB simple family (application)
CA 2020050082 W 20200124; CA 3125339 A 20200124; EP 20744830 A 20200124; JP 2021542121 A 20200124; KR 20217025030 A 20200124; MX 2021008718 A 20200124; US 202017425443 A 20200124