

Title (en)
ALLOY WITH COMPLEX COMPOSITION

Title (de)
LEGIERUNG MIT KOMPLEXER ZUSAMMENSETZUNG

Title (fr)
ALLIAGE À COMPOSITION COMPLEXE

Publication
EP 4381110 A1 20240612 (FR)

Application
EP 22757274 A 20220726

Priority
• CH 0701242021 A 20210802
• EP 2022070897 W 20220726

Abstract (en)
[origin: WO2023011980A1] Alloy characterized in that it comprises scandium (Sc) at a fraction of greater than or equal to 30 at%, titanium (Ti), zirconium (Zr) and/or vanadium (V) and/or oxides, hydrides, borides, carbides and/or nitrides thereof, wherein at least two of the elements titanium, zirconium and vanadium and/or their oxides, hydrides, borides and/or carbides have a fraction greater than or equal to 15 at%.

IPC 8 full level
C22C 1/04 (2023.01); **B22F 3/105** (2006.01); **C22C 28/00** (2006.01); **G04B 37/22** (2006.01)

CPC (source: CH EP KR US)
B22F 3/105 (2013.01 - EP KR US); **C22C 1/04** (2013.01 - CH EP); **C22C 1/047** (2023.01 - EP KR); **C22C 28/00** (2013.01 - CH EP KR US); **C22C 30/00** (2013.01 - CH EP KR); **G04B 37/22** (2013.01 - EP KR); **B22F 2003/1051** (2013.01 - KR US); **B22F 2998/10** (2013.01 - EP KR); **B22F 2999/00** (2013.01 - EP KR)

C-Set (source: EP)
1. **B22F 2999/00 + B22F 3/105 + B22F 2202/13**
2. **B22F 2998/10 + B22F 2009/041 + B22F 3/02**

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2023011980 A1 20230209; CH 718894 A1 20230215; CN 117769605 A 20240326; EP 4381110 A1 20240612; JP 2024529528 A 20240806; KR 20240045251 A 20240405; US 2024287656 A1 20240829

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EP 2022070897 W 20220726; CH 0701242021 A 20210802; CN 202280054151 A 20220726; EP 22757274 A 20220726; JP 2024506454 A 20220726; KR 20247007055 A 20220726; US 202218293506 A 20220726