

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 July 2020 (30.07.2020)



(10) International Publication Number
WO 2020/152703 A1

(51) International Patent Classification:
C22C 5/06 (2006.01) C22C 5/08 (2006.01)

(21) International Application Number:
PCT/IN2020/050064

(22) International Filing Date:
21 January 2020 (21.01.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
201921003025 24 January 2019 (24.01.2019) IN

(72) Inventor; and

(71) Applicant: PETHE, Subodh Suhas [IN/IN]; 1100, Lodha
Aristo, Majiwada, Thane(West), Maharashtra 400601 (IN).

(74) Agent: P, Aruna Sree; Gopakumar Nair Associates, 'Shiv-
mangal', 3rd Floor, Near Big Bazaar, Akurli Road, Kandi-
vali (East), Mumbai, Maharashtra 400 101 (IN).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

(54) Title: SILVER ALLOY WITH IMPROVED MECHANICAL PROPERTIES

(57) Abstract: The present invention discloses silver alloy composition consisting of at least 90.0 % silver, 0.01-1.5% by weight of each of zirconium, magnesium, titanium and the balance copper with improved mechanical properties. The alloying metal in silver alloy impart both high "as cast" and "60% cold worked" hardness with workable springiness, reduced specific gravity and is resistant to wear and tear.

WO 2020/152703 A1