



- (51) **International Patent Classification:**
H01B 1/02 (2006.01) *C22F 1/04* (2006.01)
C22C 21/00 (2006.01)
- (21) **International Application Number:**
PCT/EP2013/073541
- (22) **International Filing Date:**
12 November 2013 (12.11.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12007886.0 22 November 2012 (22.11.2012) EP
12008371.2 17 December 2012 (17.12.2012) EP
- (71) **Applicant:** HERAEUS MATERIALS TECHNOLOGY
GMBH & CO. KG [DE/DE]; Heraeusstr. 12-14, 63450
Hanau (DE).
- (72) **Inventors:** MILKE, Eugen; Wolfsgangstrasse 2, 60322
Frankfurt (DE). THOMAS, Sven; Dieffenbachstrasse 11,
63128 Dietzenbach (DE). GEIBLER, Ute; Fliederweg 2a,
12527 Berlin (DE). SCHNEIDER-RAMELOW, Martin;
Rollbergstrasse 24, 12053 Berlin (DE).
- (74) **Agent:** BRAND, Normen; Heraeus Holding GmbH, Patent
Department, Heraeusstrasse 12 - 14, 63450 Hanau (DE).

- (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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).

Published:

— with international search report (Art. 21(3))

(54) **Title:** ALUMINIUM ALLOY WIRE FOR BONDING APPLICATIONS

(57) **Abstract:** The invention is related to a bonding wire, comprising: A core with a surface, wherein the core comprises aluminium as a main component, characterized in that the core contains scandium as a component in an amount between 0.05% and 1.0 %.



WO 2014/079726 A1