

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 December 2022 (29.12.2022)



(10) International Publication Number
WO 2022/271094 A3

(51) International Patent Classification:

B29C 65/44 (2006.01) *H05K 1/02* (2006.01)
B29C 65/18 (2006.01) *B33Y 10/00* (2015.01)
H05K 3/10 (2006.01)

(21) International Application Number:

PCT/SG2022/050351

(22) International Filing Date:

25 May 2022 (25.05.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202105811Y 01 June 2021 (01.06.2021) SG

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(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, IQ, IR, IS, IT, JM, 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,

(54) Title: WIRE EMBEDDING METHOD FOR 3D PRINTING

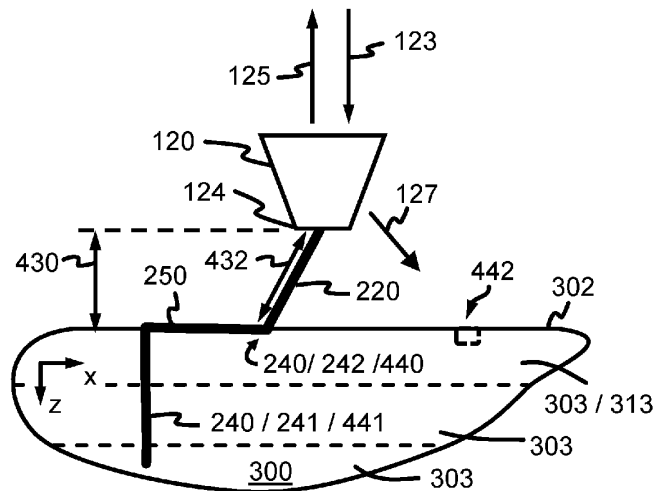


Fig. 2A

(57) Abstract: A wire embedding method and system for 3D printing. The method includes: extruding the wire in an extrusion direction via a nozzle towards a substrate surface of the substrate; concurrently with the extruding of the wire, displacing the nozzle in a pull-away direction away from the substrate surface to form an exposed length of the wire between the substrate surface and the nozzle, wherein the exposed length of the wire is formed without the exposed length of the wire contacting the substrate surface; providing a cooling phase; and forming a surface embedded length of the wire using the exposed length of the wire in a surface embedding phase.

[Continued on next page]

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).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

26 January 2023 (26.01.2023)