



(51) International Patent Classification:

B22F 10/28 (2021.01) B33Y 70/10 (2020.01)
B33Y 10/00 (2015.01) B33Y 80/00 (2015.01)

(21) International Application Number:

PCT/SG2022/050168

(22) International Filing Date:

28 March 2022 (28.03.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202103247T 30 March 2021 (30.03.2021) 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, 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: METHOD FOR FABRICATING A NITROGENOUS STEEL MATERIAL

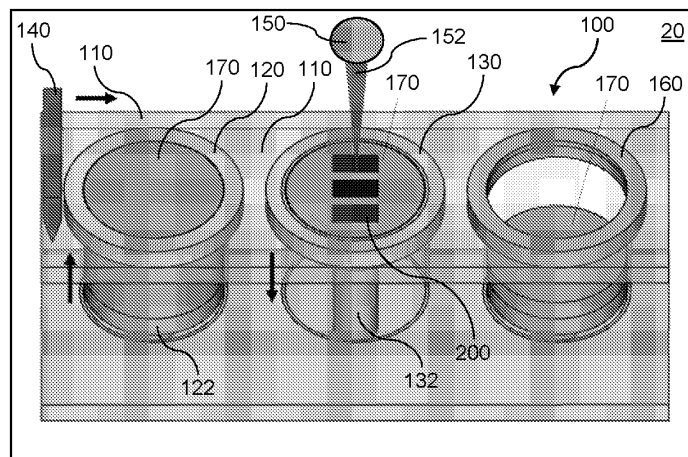


Figure 1

(57) Abstract: The present disclosure generally relates to a method for fabricating a nitrogenous steel material (200). The method comprises preparing a material powder in a powder reservoir (120) of an additive manufacturing apparatus (100). The material powder comprises: a metal powder comprising iron; and an alloying powder comprising nitrogen. The method further comprises performing an additive manufacturing process under atmospheric pressure, the additive manufacturing process comprising: displacing layers of the material powder from the powder reservoir (120) to a build platform (130) of the additive manufacturing apparatus (100); and fusing the layers of material powder on the build platform (130) to fabricate the nitrogenous steel material (200).

[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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

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