

(12) International Application Status Report

Received at International Bureau: 02 April 2020 (02.04.2020)

Information valid as of: 23 September 2020 (23.09.2020)

Report generated on: 18 January 2021 (18.01.2021)

(10) Publication number:

WO2020/202147

(43) Publication date:

08 October 2020 (08.10.2020)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/IL2020/050387

(22) Filing Date:

30 March 2020 (30.03.2020)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/827,094 (US)

(31) Priority date(s):

31 March 2019 (31.03.2019)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

B29C 64/112 (2017.01); **B29C 64/194** (2017.01); **B33Y 10/00** (2015.01); **B29C 64/386** (2017.01)

(71) Applicant(s):

STRATASYS LTD. [IL/IL]; 1 Holtzman Street, Science Park P.O. Box 2496 7612401 Rehovot (IL) *(for all designated states)*

(72) Inventor(s):

GLASSMAN, Barak; 11 David Elazar Street 7402748 Nes Ziona (IL)

(74) Agent(s):

EHRlich, Gal; G. E. EHRlich (1995) LTD. 11 Menachem Begin Road, 5268104 Ramat-Gan (IL)

(54) Title (EN): METHOD AND SYSTEM FOR LEVELING A LAYER IN FREEFORM FABRICATION

(54) Title (FR): PROCÉDÉ ET SYSTÈME DE MISE À NIVEAU D'UNE COUCHE DANS UNE FABRICATION DE FORME LIBRE

(57) Abstract:

(EN): A method of fabricating an object in layers, comprises, for at least one layer: dispensing a building material formulation to form a first portion of the layer, and leveling the first portion by a leveling device; increasing a vertical distance between the first portion and the leveling device; and while a topmost surface of the first portion is exposed and beneath a segment of the leveling device: dispensing a building material formulation to form a second portion of the layer, laterally displaced from the first portion along an indexing direction, and leveling the second portion by the leveling device.

(FR): L'invention concerne un procédé de fabrication d'un objet en couches comprenant, pour au moins une couche : la distribution d'une formulation de matériau de construction pour former une première partie de la couche et la mise à niveau de la première partie par un dispositif de mise à niveau ; l'augmentation d'une distance verticale entre la première partie et le dispositif de mise à niveau ; et tandis qu'une surface la plus au-dessus de la première partie est exposée et en dessous d'un segment du dispositif de nivellement : la distribution d'une formulation de matériau de construction pour former une seconde partie de la couche, déplacée latéralement par rapport à la première partie le long d'une direction d'indexation, et la mise à niveau de la seconde partie par le dispositif de mise à niveau.

International search report:

Received at International Bureau: 13 July 2020 (13.07.2020) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG
African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America