

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 July 2020 (23.07.2020)



(10) International Publication Number
WO 2020/148305 A1

(51) International Patent Classification:

C08F 297/02 (2006.01) B82Y 40/00 (2011.01)
C09D 153/00 (2006.01) H01L 21/00 (2006.01)
G03F 7/00 (2006.01)

(21) International Application Number:

PCT/EP2020/050856

(22) International Filing Date:

15 January 2020 (15.01.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/793,436 17 January 2019 (17.01.2019) US
62/943,326 04 December 2019 (04.12.2019) US

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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, 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.

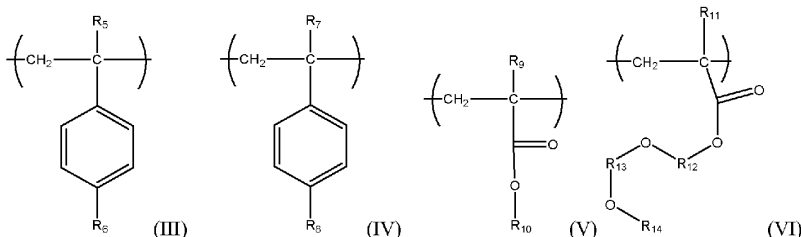
(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

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).

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))

(54) Title: ENHANCED DIRECTED SELF-ASSEMBLY IN THE PRESENCE OF LOW T_g OLIGOMERS FOR PATTERN FORMATION



(57) Abstract: The present invention relates to a composition comprising components a), b) and c). The component a) is a block copolymer or a blend of block copolymers. The component b) is a low T_g additive selected from the group consisting of an oligo random copolymer b-1), an oligo diblock copolymer b-2), an oligo diblock copolymer b-3) and a mixture of at least two of these. The component c) is a spin casting organic solvent. The invention also pertains to the use of said compositions in directed self-assembly. The invention further pertains to the novel oligo diblock copolymer b-2) which is an oligo diblock copolymer of block A-b) and block B-b), wherein block A-b) is a random copolymer of repeat units having structures (III), and (IV) and block B-b) is a random copolymer of repeat units having structures (V), and (VI). Formulas (III), (IV), (V), (VI).