



- (51) International Patent Classification:
C01B 31/04 (2006.01) *C08G 61/10* (2006.01)
- (21) International Application Number:
PCT/EP2012/072445
- (22) International Filing Date:
13 November 2012 (13.11.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11188978.8 14 November 2011 (14.11.2011) EP
61/559,161 14 November 2011 (14.11.2011) 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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, 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,

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(54) Title: SEGMENTED GRAPHENE NANORIBBONS

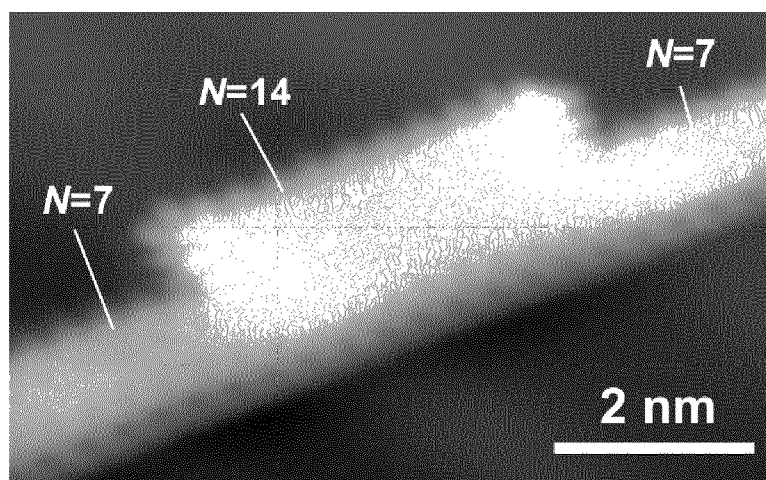


Figure 5

(57) Abstract: The present invention relates to a segmented graphene nanoribbon, comprising at least two different graphene segments covalently linked to each other, each graphene segment having a monodisperse segment width, wherein the segment width of at least one of said graphene segments is 4 nm or less and to a method for preparing it by polymerizing at least one polycyclic aromatic monomer compound and/or at least one oligo phenylene aromatic hydrocarbon monomer compound to form at least one polymer and by at least partially cyclodehydrogenating the one or more polymer.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, —
ML, MR, NE, SN, TD, TG).

*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))*

Published:

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