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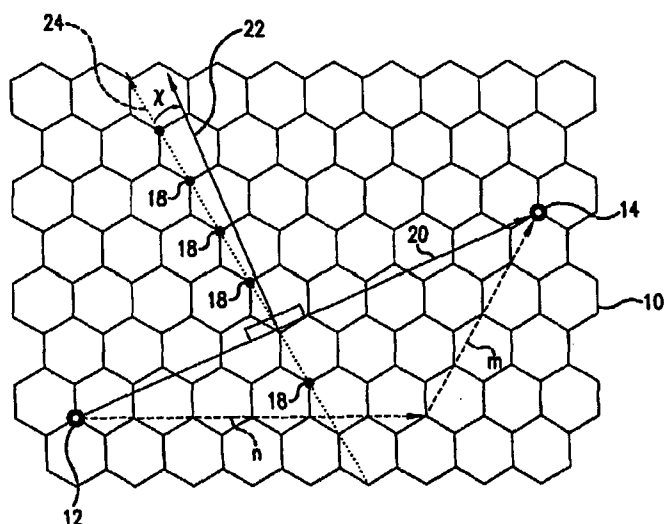
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— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,

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(54) Title: DIRECTED FLOW METHOD AND SYSTEM FOR BULK SEPARATION OF SINGLE-WALLED TUBULAR FULLERENES BASED ON HELICITY



(57) Abstract: A method for bulk separation of single-walled tubular fullerenes (100) based on helicity is provided wherein a solution or suspension of the single walled tubular fullerenes (100) is flowed onto a crystalline or highly oriented substrate (30). The single-walled tubular fullerenes (100) that flow onto the substrate (30) have a respective longitudinal axis that is aligned with the flow direction (105). The direction of flow (105) is oriented at a predetermined angle with respect to a lattice axis (24) of the substrate (30) for energetically favoring adsorption of a respective plurality of single-walled fullerenes (100) having a tubular contour and a selected helicity. Subsequently, the adsorbed single-walled tubular fullerenes (100) of the selected chirality are removed from the substrate (30).



IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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