

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 September 2023 (28.09.2023)



(10) International Publication Number
WO 2023/183090 A1

(51) International Patent Classification:
H10N 60/12 (2023.01) *G06N 10/40* (2022.01)
H10N 69/00 (2023.01)

(21) International Application Number:
PCT/US2023/012130

(22) International Filing Date:
01 February 2023 (01.02.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/323,028 23 March 2022 (23.03.2022) US
18/161,019 27 January 2023 (27.01.2023) 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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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,

(54) Title: RESONATOR WITH VAN DER WAALS MATERIAL

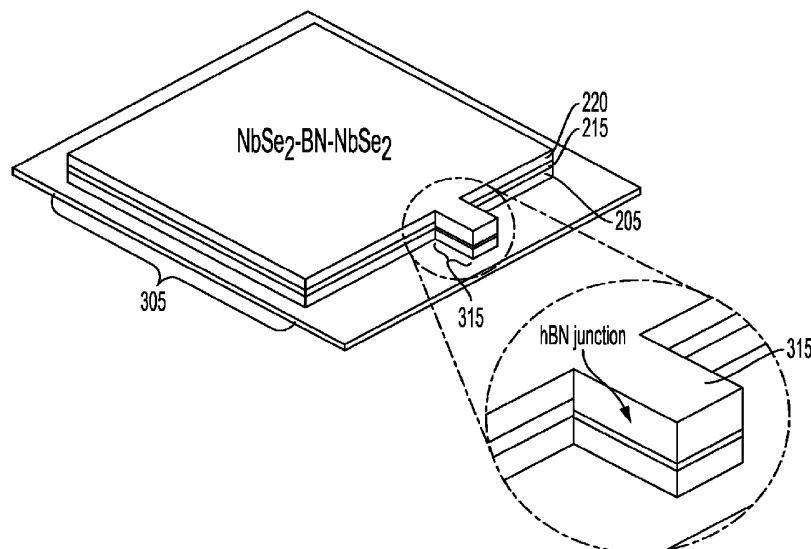


FIG. 3C

(57) Abstract: A resonator constructed with one or more Van der Waals materials. In some embodiments, a system includes such a resonator. The resonator includes: a capacitor (305); and an inductor, the capacitor including: a first conductive layer (205); an insulating layer (215), on the first conductive layer; and a second conductive layer (220) on the insulating layer, the first conductive layer being composed of one or more layers of a first van der Waals material, the insulating layer being composed of one or more layers of a second van der Waals material, and the second conductive layer being composed of one or more layers of a third van der Waals material.

[Continued on next page]

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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))