

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number

WO 2022/187719 A9

(43) International Publication Date
09 September 2022 (09.09.2022)

WIPO | PCT

(51) International Patent Classification:

C40B 70/00 (2006.01) *B82Y 5/00* (2011.01)
B01J 19/00 (2006.01) *C12N 15/10* (2006.01)

(72) Inventor: **DAMBACHER, Corey, M.**; Oregon Health & Science University, 690 S Bancroft Street, Portland, OR 97239 (US).

(21) International Application Number:

PCT/US2022/019045

(74) Agent: **HARDING, Tanya, M.**; Lee & Hayes, PC, 601 West Riverside Avenue, Suite 1400, Spokane, WA 99201 (US).

(22) International Filing Date:

04 March 2022 (04.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/156,858 04 March 2021 (04.03.2021) US

(71) Applicant: **OREGON HEALTH & SCIENCE UNIVERSITY** [US/US]; Office of Technology Transfer & Business Development, 0690 SW Bancroft Street, Portland, OR 97239-3098 (US).

(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, IT, JM, 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,

(54) Title: MOLECULAR BARCODES AND RELATED METHODS AND SYSTEMS

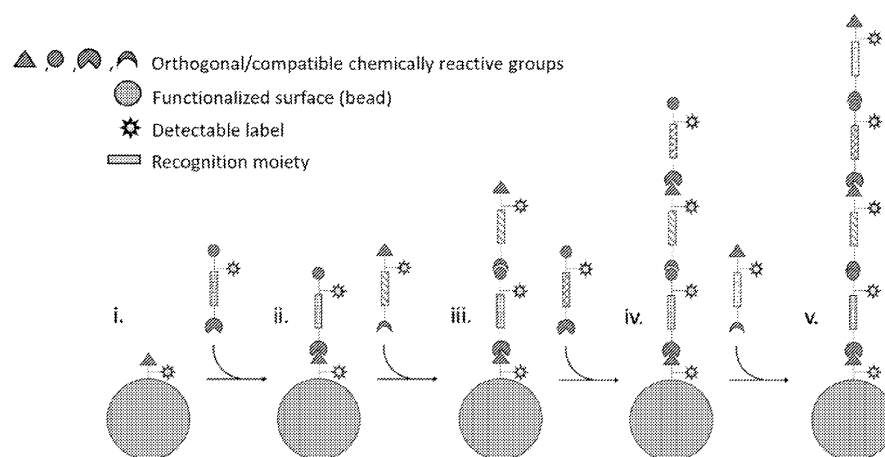


FIG. 1

(57) **Abstract:** The present disclosure relates to molecular barcodes comprising a set of one or more identifiers. Methods of using the molecular barcodes, such as to classify a material, are disclosed. Methods of making the molecular barcodes and systems for using the molecular barcodes are disclosed herein.

[Continued on next page]

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, 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))*
- *with sequence listing part of description (Rule 5.2(a))*

(48) Date of publication of this corrected version:

11 April 2024 (11.04.2024)

(15) Information about Correction:

see Notice of 11 April 2024 (11.04.2024)