

(12) International Application Status Report

Received at International Bureau: 15 January 2018 (15.01.2018)

Information valid as of: 18 January 2018 (18.01.2018)

Report generated on: 22 April 2019 (22.04.2019)

(10) Publication number:

WO2018/125805

(43) Publication date:

05 July 2018 (05.07.2018)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2017/068213

(22) Filing Date:

22 December 2017 (22.12.2017)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/439,671 (US)

(31) Priority date(s):

28 December 2016 (28.12.2016)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C12M 1/12 (2006.01); **C12Q 1/04** (2006.01)

(71) Applicant(s):

3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US) *(for all designated states)*

(72) Inventor(s):

YOUNG, Alexi J.; 3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US)
BRUTINEL, Evan D.; 3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US)

(74) Agent(s):

PISHKO, Adrian L.; 3M Center Office of Intellectual Property Counsel Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US)

(54) Title (EN): MICROBIAL DETECTION DEVICES INCLUDING ADHESIVE MASKED NUTRIENTS AND METHODS OF USING THE SAME

(54) Title (FR): DISPOSITIFS DE DÉTECTION MICROBIENNE COMPRENANT DES NUTRIMENTS MASQUÉS ADHÉSIFS ET PROCÉDÉS POUR LES UTILISER

(57) Abstract:

(EN): Devices for microbial detection of microorganisms are provided including a body member including a substrate having a first major surface and a second major surface. The device further includes a substantially dry, first microbial growth nutrient composition disposed on a portion of the first major surface, a first adhesive composition adhered to the first microbial growth nutrient composition, and a cold-water-soluble first hydrogel-forming composition adhered to the first adhesive composition. The device also includes a cover sheet attached to the body member, where the cover sheet includes a first major surface facing the body member. Devices including a water-proof pouch are also provided. Methods for detecting and enumerating at least one microorganism in a sample are additionally provided, using the devices.

(FR): La présente invention concerne des dispositifs de détection microbienne de micro-organismes comprenant un élément formant corps comprenant un substrat ayant une première surface majeure et une seconde surface majeure. Le dispositif comprend en outre une première composition de nutriment de croissance microbienne, sensiblement sèche disposée sur une partie de la première surface majeure, une première composition adhésive qui adhère à la première composition de nutriment de croissance microbienne, et une première composition formant hydrogel soluble dans l'eau froide qui adhère à la première composition adhésive. Le dispositif comprend également une feuille de recouvrement fixée à l'élément formant corps, où la feuille de recouvrement comprend une première surface majeure faisant face à l'élément formant corps. La présente invention concerne également des dispositifs comprenant une poche imperméable à l'eau. L'invention concerne également des procédés de détection et de numération d'au moins un micro-organisme dans un échantillon, en utilisant les dispositifs.

International search report:

Received at International Bureau: 26 March 2018 (26.03.2018) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))