

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 December 2020 (17.12.2020)



(10) International Publication Number
WO 2020/252433 A1

(51) International Patent Classification:
A01N 59/00 (2006.01) *C02F 1/76* (2006.01)
A61L 2/18 (2006.01)

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

(21) International Application Number:
PCT/US2020/037665

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(22) International Filing Date:
14 June 2020 (14.06.2020)

(25) Filing Language: English

Published:

- with international search report (Art. 21(3))

(26) Publication Language: English

(30) Priority Data:
62/861,987 14 June 2019 (14.06.2019) US
62/977,090 14 February 2020 (14.02.2020) US

(71) Applicant: **COLLIDION, INC.** [US/US]; 1770 Corporate Circle, Petaluma, California 94954 (US).

(72) Inventors: **ALIMI, Hojabr**; 1770 Corporate Circle, Petaluma, California 94954 (US). **PRASAD, Sridhar Govinda**; 1770 Corporate Circle, Petaluma, California 94954 (US). **SINHA, Santosh C.**; 1770 Corporate Circle, Petaluma, California 94954 (US).

(74) Agent: **STATHAKIS, Dean G.**; UltimatEdge IP Law Group, P.C., 2372 Morse Avenue, Suite 252, Irvine, California 92614-6234 (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, 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, GM, KE, LR, LS, MW, MZ, NA, RW, 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,

(54) Title: COMPOSITIONS, KITS, METHODS AND USES FOR PREVENTING MICROBIAL GROWTH

(57) Abstract: The present specification discloses a composition comprising, consisting essentially of, or consisting of hypochlorous acid or free available chlorine alone or in combination with one or more quaternary compounds or silicon quaternary compounds, one or more guanide-containing compounds, one or more alcohols, one or more metallic particles, one or more metal salts, or any combination thereof. The present specification further discloses a kit comprising, consisting essentially of, or consisting of a one or more containers including a composition disclosed herein or components which make up such compositions as well as methods and uses for such compositions and kits.



WO 2020/252433 A1