

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 April 2022 (28.04.2022)



(10) International Publication Number
WO 2022/086315 A1

(51) International Patent Classification:

A01N 59/16 (2006.01) *B01J 21/06* (2006.01)
A01N 59/20 (2006.01) *B01J 35/00* (2006.01)
A61L 2/08 (2006.01) *B82Y 30/00* (2011.01)
A61L 2/232 (2006.01)

(21) International Application Number:

PCT/MY2020/050117

(22) International Filing Date:

23 October 2020 (23.10.2020)

(25) Filing Language:

English

(26) Publication Language:

English

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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,
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))
- in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE

(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, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,

(54) Title: A RESONANCE ANTIMICROBIAL COATING FOR DISINFECTING SURFACE

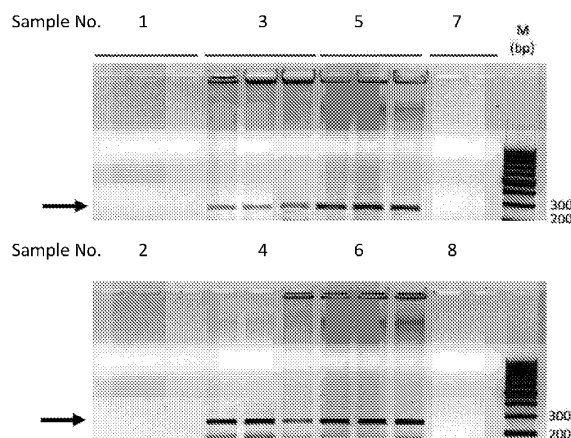


Figure 1

(57) Abstract: A resonance antimicrobial coating composition for disinfecting surface and a method of preparation thereof are disclosed. Particularly, the resonance antimicrobial coating composition comprises a nano-sized metal oxide selected from the group consisting of silver oxide, copper oxide and a combination thereof, and at least one ultraviolet or fluorescent light-assisted photocatalyst. The atoms of the composition are in a state of energy excitation that vibrate at a frequency of 0.5 kHz to 500 kHz for a predetermined period upon being subjected to bombardment with a vibration force at the frequency for at least 24 hours.

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