

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2023/163729 A1

(43) International Publication Date
31 August 2023 (31.08.2023)

(51) International Patent Classification:

C01B 11/02 (2006.01) *A01N 25/12* (2006.01)
A01N 25/18 (2006.01) *A61L 2/20* (2006.01)
A01N 25/08 (2006.01) *B01J 19/12* (2006.01)

Published:

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

(21) International Application Number:

PCT/US2022/025211

(22) International Filing Date:

18 April 2022 (18.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

17/677,419 22 February 2022 (22.02.2022) US

(71) Applicant: **PHIEX TECHNOLOGIES, INC.** [US/US];
One Boston Place, Suite 2600, Boston, Massachusetts
02108 (US).

(72) Inventors: **BARENBERG, Sumner**; 31 Burbank Street,
Apt. 101, Boston, Massachusetts 02115 (US). **CAMERON,
Robert**; 521 West Main Street, Boalsburg, Pennsylvania
16827 (US). **TIAN, Xiao**; 121 Median Drive, Wilmington,
Delaware 19803 (US).

(74) Agent: **PETRILLO, Kathleen** et al.; 600 Washington Av-
enue, Suite 2500, St. Louis, Missouri 63101 (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,
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).

(54) Title: LIGHT-ACTIVATED CHLORINE DIOXIDE-RELEASING POWDER AND METHOD OF MANUFACTURE

(57) Abstract: Methods of manufacturing a light-activated powder are provided which provide solid-state generation and release of chlorine dioxide without detectable amounts of any toxic by-products such as chlorine gas, chlorites, or chlorates. The powder need not be exposed to moisture, relative humidity, or an acid before or during exposure of the powder to visible light to generate the gas. The powder can also be prepared under conditions that minimize or prevent decomposition or oxidation of sodium chlorite or premature light activation of the powder during the manufacturing process to maximize its activity.

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