

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/034504 A2

(51) International Patent Classification:
C23C 16/448 (2006.01) F16B 2/08 (2006.01)

(21) International Application Number:
PCT/US2024/040493

(22) International Filing Date:
01 August 2024 (01.08.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/517,807 04 August 2023 (04.08.2023) US

(71) Applicant: **ULTRA CLEAN HOLDINGS, INC.**
[US/US]; 26462 Corporate Avenue, Hayward, California
94545 (US).

(72) Inventors: **RAMACCIOTTI, Michael**; 38636 Farwell
Drive, Fremont, California 94536 (US). **CAMYRE, Alan**;
2961 E Edward Ln., Vail, Arizona 85641 (US). **HYLBERT,**

Jon; 952 Willowleaf Dr. Apt 1901, San Jose, California
95128 (US). **RODRIGUEZ, Genaro**; 2484 Shilshone Cir-
cle, San Jose, California 95121 (US). **LEE, Hyeon**; 220 Ju-
niper Dr., Georgetown, Texas 78626 (US). **MANDEL, Ed**;
2323 Lenard Drive, Castro Valley, California 94546 (US).

(74) Agent: **VERPLANCKEN, Donald** et al.; PATTERSON +
SHERIDAN LLP, 24 Greenway Plaza, Suite 1600, Houston,
Texas 77046 (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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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,

(54) Title: CONFIGURABLE SOURCE

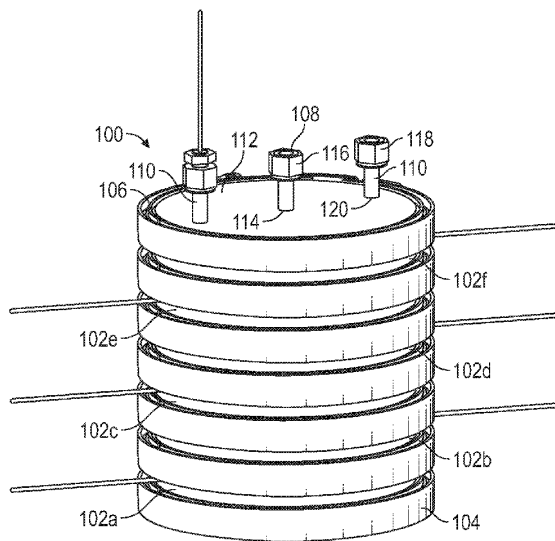


FIG. 1

(57) Abstract: A gas source includes a single tray or a plurality of trays including a top cover and a bottom cover, each tray including a source receiving portion and an outer circumferential wall having an outer wall surface, the outer circumferential wall including at least one projecting flange thereon, each projecting flange having an outer circumferential flange surface and a second surface extending from the circumferential flange surface in the direction of the outer wall surface, and a clamp, actuatable between a circumferentially expanded condition and a circumferentially reduced condition, wherein, in the circumferentially reduced position, contact the second surface of the first tray and the second surface of the second tray.

[Continued on next page]

WO 2025/034504 A2

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, CV, 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, ME, 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:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*