



- (51) **International Patent Classification:**
H01L 21/67 (2006.01) *H01J 37/32* (2006.01)
- (21) **International Application Number:**
PCT/US2022/034478
- (22) **International Filing Date:**
22 June 2022 (22.06.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
17/529,684 18 November 2021 (18.11.2021) US
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- (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, IQ, 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,

- (54) **Title: PRE-CLEAN CHAMBER ASSEMBLY ARCHITECTURE FOR IMPROVED SERVICEABILITY**

(57) **Abstract:** Apparatus for processing a substrate are de-
scribed herein. More specifically, embodiments described herein
relate to separate pre-clean process modules and pre-clean con-
trol modules coupled to a cluster tool assembly. Each pre-clean
process module and each pre-clean control module are connected
by a cable conduit which is configured to have power and control
cables passing therethrough between the pre-clean process mod-
ule and the ore-clean control module. A maintenance passage is
formed through the cluster tool assembly. Each of a purge gas
source, a process gas source, a manometer, an isolation port, and
a throttle valve are all accessible from one side of the pre-clean
process module.

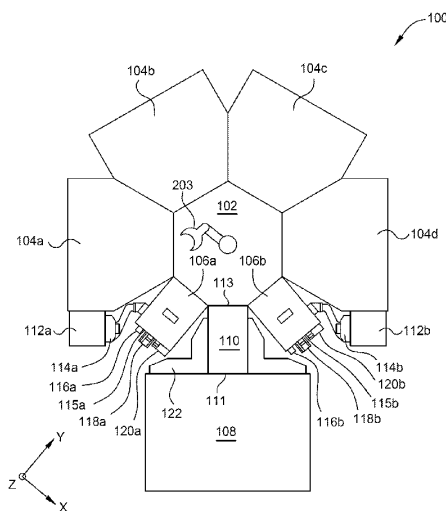


FIG. 1

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))