



(51) International Patent Classification:
H01L 21/02 (2006.01)

(21) International Application Number:

PCT/US2010/002822

(22) International Filing Date:

22 October 2010 (22.10.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/607,659 28 October 2009 (28.10.2009) US

(71) Applicant (for all designated States except US): **LAM RESEARCH CORPORATION** [US/US]; 4650 Cushing Parkway, Fremont, California 94538-6470 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AUGUSTINO, Jason** [US/US]; 660 North K Street, Livermore, California 94551 (US). **HART, Tim** [US/US]; 3521 Arcadian Court, Castro Valley, California 94546 (US).

(74) Agent: **SKIFF, Peter K.**; BUCHANAN INGERSOLL & ROONEY P.C., (Customer No. 21839), P. O. Box 1404, Alexandria, Virginia 22313-1404 (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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: QUARTZ WINDOW FOR A DEGAS CHAMBER

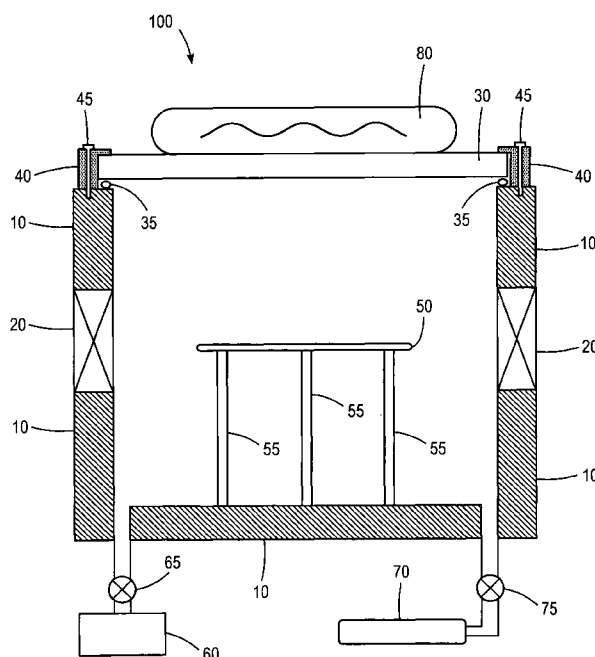


FIG. 1

(57) Abstract: A five-sided quartz window configured to be mounted on a degas chamber as a UV-transmissive window. The quartz window is made of synthetic quartz and has a uniform thickness. The shape of the quartz window is defined by an upper surface, a lower surface and a sidewall therebetween. The sidewall has five straight sections interconnected by five arcuate sections. The quartz window has four arcuate recesses extending into the sidewall.

**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))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

21 July 2011

Published:

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