

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 September 2007 (27.09.2007)

PCT

(10) International Publication Number
WO 2007/109027 A1

(51) International Patent Classification:
G05D 23/00 (2006.01)

(21) International Application Number:
PCT/US2007/006344

(22) International Filing Date: 13 March 2007 (13.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/784,044 20 March 2006 (20.03.2006) US
60/784,745 22 March 2006 (22.03.2006) US

(71) Applicant (for all designated States except US):
TEMPTRONIC CORPORATION [US/US]; 4 Commercial Street, Sharon, MA 02067-1653 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COLE, Kenneth, M.** [US/US]; 424 Winter Street, Holliston, MA 01746-1127 (US). **CONROY, Michael, F.** [US/US]; 108 Augsburg Drive, Attleboro, MA 02703-2410 (US).

LOWERRE, Edward [US/US]; 9949 Shore Road, #502, Brooklyn, NY 11209-7905 (US). **PELRIN, James** [US/US]; 95 Guernsey Avenue, Taunton, MA 02780-7234 (US).

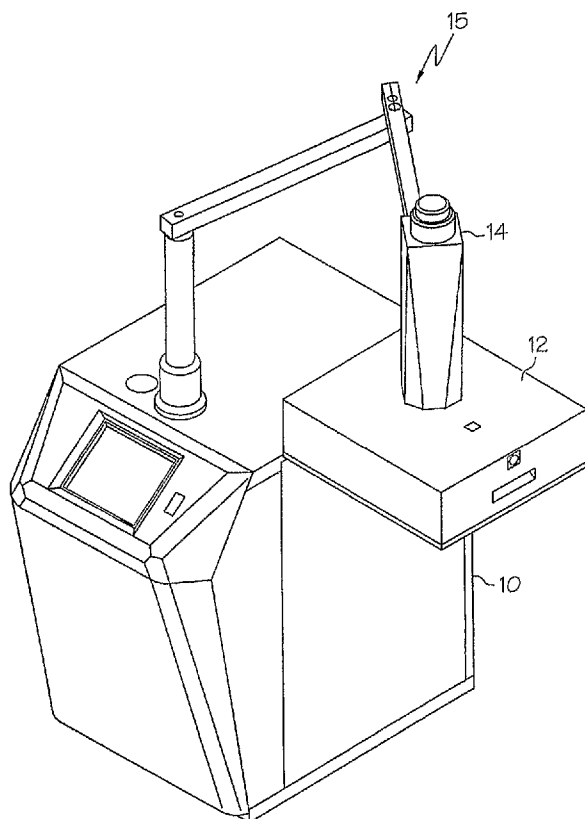
(74) Agents: **COLLINS, Timothy, P.** et al.; Mills & Onello LLP, Eleven Beacon Street, Suite 605, Boston, MA 02108 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: TEMPERATURE-CONTROLLED ENCLOSURES AND TEMPERATURE CONTROL SYSTEM USING THE SAME



(57) Abstract: A temperature chamber in which a device is tested is connected to a temperature-controlled air source for controlling temperature of the chamber. The temperature chamber includes thermal insulation formed on side surfaces of the chamber. A universal manifold adaptor for directing the temperature-controlled air directly to a device being tested is connected to the chamber. The temperature chamber also includes an exhaust system. A self-closing cable feed-through module is connected to an outer surface of the chamber. The feed-through module includes a first portion and a second portion, wherein cables are fed through the first and second portions into the chamber in a first position and the first and second portions form a leak tight seal around the cables in a second position.

WO 2007/109027 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*