

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12P 19/34, C12M 1/36, 1/38, 1/34, B01L 3/00, G01N 33/00, 21/00, B01J 8/04	A1	(11) International Publication Number: WO 97/16561 (43) International Publication Date: 9 May 1997 (09.05.97)
(21) International Application Number: PCT/US96/17116 (22) International Filing Date: 1 November 1996 (01.11.96) (30) Priority Data: 60/009,517 3 November 1995 (03.11.95) US (71) Applicant: DAVID SARNOFF RESEARCH CENTER, INC. [US/US]; 201 Washington Road, CN5300, Princeton, NJ 08543-5300 (US). (72) Inventors: ANDREVSKI, Zygmunt, M.; 151 Snowden Lane, Princeton, NJ 08540 (US). ROACH, William, R.; 70 Hick- ory Court, Rocky Hill, NJ 08553 (US). SOUTHGATE, Pe- ter, D.; 958 Ridge Road, Monmouth Junction, NJ 8852 (US). ZANZUCCHI, Peter, J.; 13 Jill Avenue, Lawrenceville, NJ 08648 (US). (74) Agent: BURKE, William, J.; David Saroff Research Center, Inc., 201 Washington Road, CN5300, Princeton, NJ 08543- 5300 (US).		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: ASSAY SYSTEM AND METHOD FOR CONDUCTING ASSAYS (57) Abstract The invention relates to an assay system for conducting elevated temperature reactions in a fluid-tight manner within a reaction chamber, the assay system comprising: (a) a first assembly comprising the reaction chamber, and (b) a second assembly for temperature control, wherein the second assembly can be positioned adjacent to the reaction chamber. More particularly, the invention relates to an assay system comprising (a) a reaction chamber having a cover formed of a deformable material and (b) a mechanism for rapidly adjusting the temperature of the reaction chamber.		