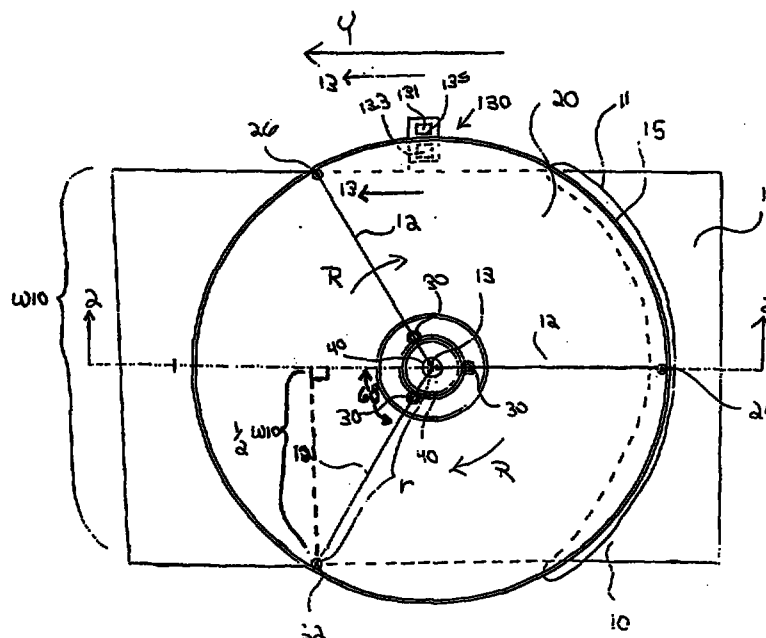


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(21) International Application Number: PCT/US99/22104 (22) International Filing Date: 23 September 1999 (23.09.99) (30) Priority Data: <table border="0"> <tr> <td>60/101,840</td> <td>25 September 1998 (25.09.98)</td> <td>US</td> </tr> <tr> <td>09/260,890</td> <td>2 March 1999 (02.03.99)</td> <td>US</td> </tr> <tr> <td>Not furnished</td> <td>22 September 1999 (22.09.99)</td> <td>US</td> </tr> <tr> <td>Not furnished</td> <td>22 September 1999 (22.09.99)</td> <td>US</td> </tr> </table> (71) Applicant: PHORMAX CORPORATION [US/US]; Suite 101, 124 University Street, Palo Alto, CA 94301 (US). (72) Inventors: CANTU, Gary; 318 Halyard Lane, Foster City, CA 94404 (US). EVANS, Wayne; 370 Calado Avenue, Campbell, CA 95008 (US). LEWIS, Todd; 227 Monroe Avenue, Palo Alto, CA 94301 (US). RAWSON, Eric, G.; 20887 Maureen Way, Saratoga, CA 95070 (US). ANDERSON, Perry, Q.; 2001 Ceder Street, Berkeley, CA 94709 (US). (74) Agents: HECKADON, David, R. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).	60/101,840	25 September 1998 (25.09.98)	US	09/260,890	2 March 1999 (02.03.99)	US	Not furnished	22 September 1999 (22.09.99)	US	Not furnished	22 September 1999 (22.09.99)	US	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
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(54) Title: **MULTIPLE-HEAD PHOSPHOR SCREEN SCANNER**

(57) Abstract

A multiple-head scanning device (20) for reading an image stored on a photostimulable phosphor storage screen (10), comprising, a rotatable frame having a center (13) and an outer perimeter (15); a photomultiplier tube (40) mounted to the rotatable frame at a location proximal the center (13) of the rotatable frame; a plurality of radially extending optical trains (12) mounted to the rotatable frame at 120 degrees to one another, each optical train (12) configured to direct incident laser light towards phosphor storage screen (10) and to direct response radiation emitted by phosphor storage (10) screen in response to the incident laser light towards the photomultiplier tube (40).