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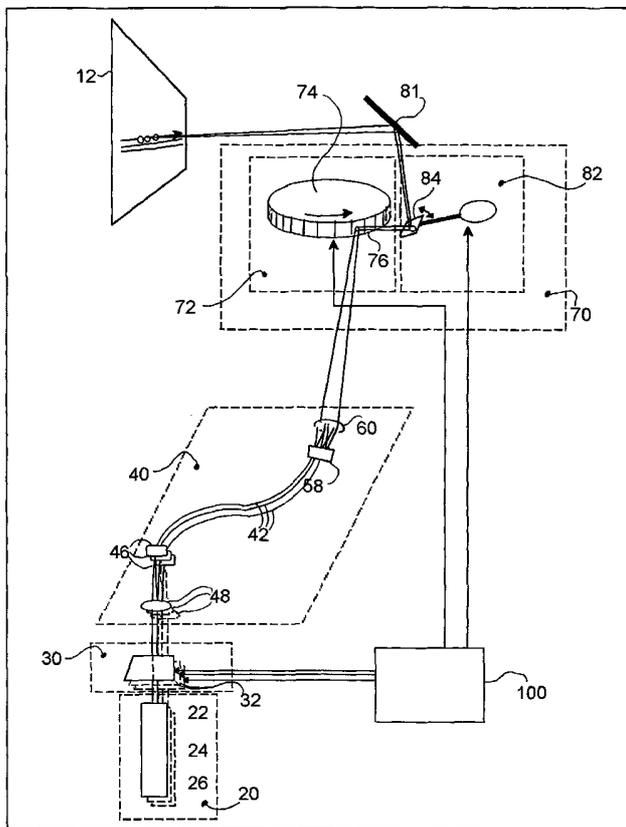
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[Continued on next page]

(54) Title: LASER PROJECTION SYSTEM



(57) Abstract: A laser projection system suitable for use in commercial motion picture theaters and other large screen venues, including home theater, uses optical fibers to project modulated laser beams for simultaneously raster scanning multiple lines on the screen. The emitting ends of the optical fibers are arranged in an array such that red, green and blue spots are simultaneously scanned onto the screen in multiple lines spaced one or more than one scan line apart. The use of optical fibers enables the scanning of small, high resolution spots on the screen, and permits convenient packaging and replacement, upgrading or modification of the system components. The simultaneous raster scanning of multiple lines enables higher resolution, brightness, and frame rates with available economical components. Alternate embodiments are disclosed to illustrate the flexibility of the system for different optical fiber output head configurations and for different types, sizes, and arrangements of laser, modulation, and scanning components.

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patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, 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, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
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BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, 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, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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**B. FIELDS SEARCHED**

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 20912 A (ADVANCED LASER TECH ;CONEMAC DONALD C (US)) 13 April 2000 (2000-04-13) the whole document ---	1-85
X	US 6 137 461 A (FROST HOLGER ET AL) 24 October 2000 (2000-10-24) the whole document ---	1-85
X	US 6 154 259 A (FINK CHARLES G ET AL) 28 November 2000 (2000-11-28) abstract; figures 11-13,16-19,31 column 19, line 7 - line 14 ---	1, 34, 56, 77
X	US 5 774 174 A (HARDIE ROBERT JOSEPH) 30 June 1998 (1998-06-30) abstract; figures 4,6,7A,7C,8 ---	1, 34, 56, 77
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Patent family members are listed in annex.

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