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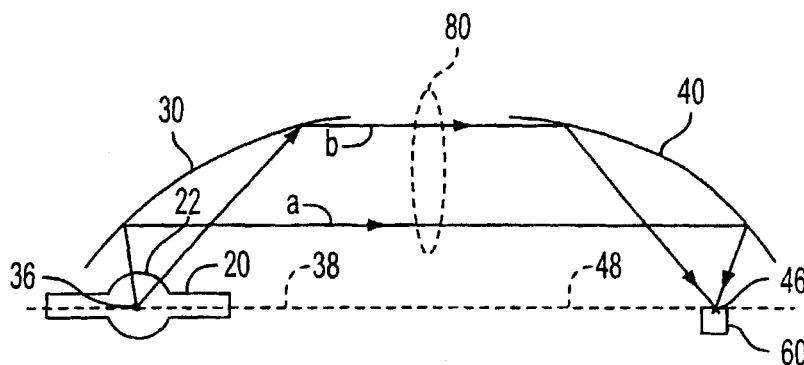
(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/71405 A3

- (51) International Patent Classification⁷: **G02B 17/06**, F21V 8/00, G02F 1/1335, G03B 21/28
- (21) International Application Number: PCT/US01/07796
- (22) International Filing Date: 12 March 2001 (12.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/532,950 22 March 2000 (22.03.2000) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): 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, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
14 March 2002
- 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.*

(54) Title: COUPLING OF LIGHT FROM A SMALL LIGHT SOURCE FOR PROJECTION SYSTEMS USING PARABOLIC REFLECTORS



(57) Abstract: A portion of a first paraboloid (30) collects and concentrates randomized light from a lamp (20) into parallel beams directed to a portion of a second paraboloid (40) which refocuses the light onto a homogenizer (60). The second paraboloid has a shape that is substantially similar to the first paraboloid reflector. The source and the target are located at the respective foci of the paraboloids such that the optical flux from the source is imaged to the target with minimal distortion in an approximately no magnification

imaging system. The system may be configured to control wavelength and intensity by inserting an additional filter. In addition, a retro-reflector may be added to increase the overall flux density at homogenizer. The output is particular suitable for providing light to the light engine of projectors.