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(21) International Application Number: PCT/US99/15953 (22) International Filing Date: 14 July 1999 (14.07.99) (30) Priority Data: 09/141,975 28 August 1998 (28.08.98) US (71) Applicant: BROOKHAVEN SCIENCE ASSOCIATES [US/US]; 40 Brookhaven Avenue, Building 460, Upton, NY 11973 (US). (72) Inventor: VELIGDAN, James, T.; 6 Stephanie Lane, Manorville, NY 11949 (US). (74) Agent: MCNICHOL, William, J., Jr.; Reed Smith Shaw & McClay LLP, 2500 One Liberty Place, Philadelphia, PA 19103-7301 (US).		(81) Designated States: AU, BR, CA, CN, IL, IN, JP, KP, KR, MX, NZ, RU, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. With amended claims.
(54) Title: THIN DISPLAY OPTICAL PROJECTOR (57) Abstract An optical system (20) projects light into a planar optical display (10). The display includes laminated optical waveguides (12) defining an inlet face (14) at one end and an outlet screen (16) at an opposite end. A first mirror (26) collimates light from a light source (18) along a first axis, and distributes the light along a second axis. A second mirror (28) collimates the light from the first mirror along the second axis to illuminate the inlet face and produce an image on the screen.		