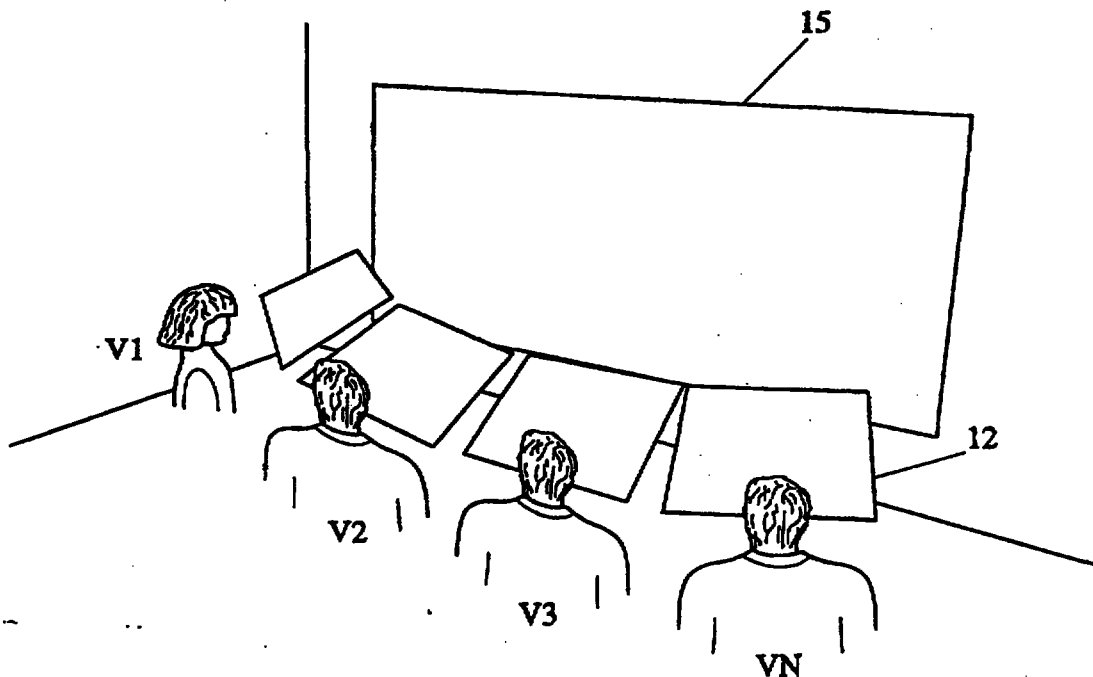




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(21) International Application Number: PCT/AU97/00353 (22) International Filing Date: 4 June 1997 (04.06.97) (30) Priority Data: PO 0246 4 June 1996 (04.06.96) AU (71) Applicant (for all designated States except US): XENOTECH RESEARCH PTY. LTD. [AU/AU]; Suite 1 & 2, 41 Walters Drive, Osborne Park, W.A. 6017 (AU). (72) Inventor; and (75) Inventor/Applicant (for US only): HARMAN, Philip, Victor [AU/AU]; 45 Vantor Street, Scarborough, W.A. 6019 (AU). (74) Agent: WATERMARK PATENT & TRADEMARK ATTORNEYS; Durack Centre, 4th floor, 263 Adelaide Terrace, Perth, W.A. 6000 (AU).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, 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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: MULTIPLE VIEWER SYSTEM FOR DISPLAYING A PLURALITY OF IMAGES**(57) Abstract**

A system for displaying a plurality of images to multiple viewers (V1, V2, V3, ..., VN) includes at least one semi-reflective mirror (12), a retroreflective screen (15) and a plurality of optical imaging means (not shown), each viewer being provided with a respective optical imaging means, each optical imaging means including a projection means for projecting images along an optical path, a tracking means (not shown) to determine the spatial position of the respective viewer's eyes, and a focusing means (not shown) to modify the optical path in response to movements of the respective viewer (V1, V2, ..., VN).