

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 July 2002 (25.07.2002)

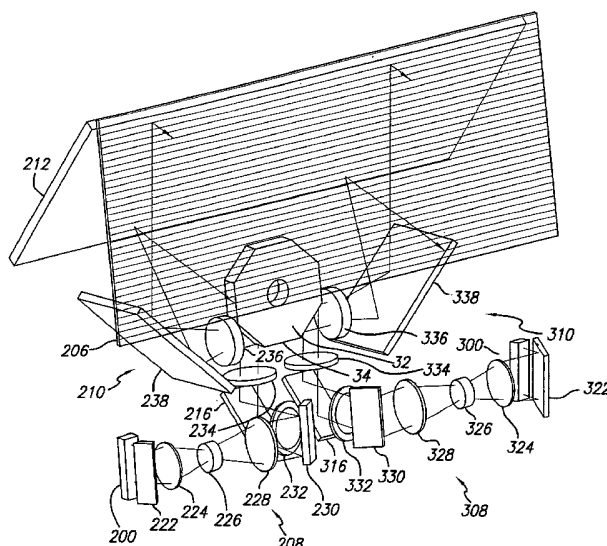
PCT

(10) International Publication Number  
**WO 02/057838 A3**

- (51) International Patent Classification<sup>7</sup>: **G09G 3/00**, H04N 5/74
- (21) International Application Number: PCT/US01/45085
- (22) International Filing Date: 24 October 2001 (24.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/244,075 27 October 2000 (27.10.2000) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US Not furnished (CON)  
Filed on Not furnished
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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, 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, US, 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,

[Continued on next page]

(54) Title: LIGHT BEAM DISPLAY WITH INTERLACED LIGHT BEAM SCANNING



(57) Abstract: A light beam display employing interlaced light beam scanning comprising a display screen (206) having a vertical and a horizontal dimension, a source of a plurality of light beams (200, 300) and an optical path including a movable reflector (32) having a plurality of reflective facets (34) between the display screen (206) and the light beam source. The movable reflector (32) directs the plural light beams (202, 302) to the display screen (206) via one or more facets of the movable reflector (32) to simultaneously illuminate plural different scan lines of the display which are spaced apart by plural non-illuminated scan lines. An optical mechanical element (216, 316) is provided for vertically shifting the light beams so as to illuminate different scan lines of the display screen.



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).

**(88) Date of publication of the international search report:**

31 October 2002

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*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.*

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/45085

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09G 3/00; H04N 5/74

US CL : 345/31, 32, 108, 110; 349/57, 62; 359/204, 212, 216, 218

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/31, 32, 108, 110; 349/57, 62; 359/204, 212, 216, 218

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 practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,646,766 A (CONEMAC) 08 July 1997 (08.07.1997), figures 2 and 8, column 5, lines 13-54, column 6, lines 9-33, column 13, lines 36-44, column 15, lines 1-5.	1-3, 7, 9 and 16-19
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Y		4, 8
Y	US 5,715,021 A (GIBEAU et al) 03 February 1998 (03.02.1998), figure 4, abstract, column 11, lines 40-50.	4, 8
A	US 5,874,929 A (OPOWER et al) 23 February 1999 (23.02.1999) figures 6 and 11.	5, 6, 10-15 and 20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

26 July 2002 (26.07.2002)

Date of mailing of the international search report

28 AUG 2002

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

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# INTERNATIONAL SEARCH REPORT

PCT/US01/45085

## Continuation of B. FIELDS SEARCHED Item 3:

TOOL: EAST; DATABASES: US, EPO, JPO, DERWENT, IBM\_TDB; SEARCH TERMS: display, monitor, optical, movable, rotatable, reflective, reflector, scan line, scanning line, motor, light emitting diode, polygon, galvanometer, piezo electric, light source.