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(71) Applicant (for all designated States except US): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 300 Lakeside Drive, 22nd Floor, Oakland, CA 94612-3550 (US).

(72) Inventor: **PAILTHORPE, Bernard**; University of Sydney, Physics Building, A28, Broadway, NSW 2006 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BORDES, Nicole** [—/—]; University of Sydney, Physics Building, A28, Broadway, NSW 2006 (AU). **REINSCH, Steven** [—/—];

2905 Quail Road, Escondido, CA 92026 (US). **BLEHA, William** [—/—]; 3209 Fosca Street, Carlsbad, CA 92009 (US). **MORELAND, John** [—/—]; 12634 Carmel Country Road #127, San Diego, CA 92130 (US).

(74) Agent: **FUESS, William, C.**; Fuess & Davidenas, 10951 Sorrento Valley Road II-G, San Diego, CA 92121-1613 (US).

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[Continued on next page]

(54) Title: VERY-LARGE-SCALE VERY-HIGH-RESOLUTION MULTIPLE-PROJECTOR TILED DISPLAY WITH UNIFORM INTENSITY, COLOR TEMPERATURE AND COLOR BALANCE THROUGHOUT BY USE OF A SINGLE LIGHT SOURCE FOR EACH COLOR; INTENSITY AND SPECTRAL MANAGEMENT IN ALL LIGHT PATHS; AND OPTIONAL FRESNEL LENSES BEHIND EACH DISPLAY TILE

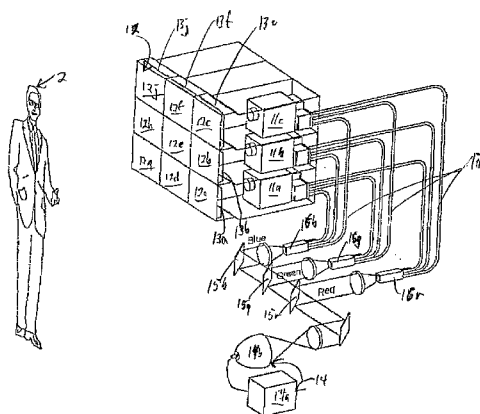


Fig. 2

(57) Abstract: Multiple projectors, each preferably of a 9 inch (or larger) 1365 x 1024 pixel (or greater) active matrix liquid crystal type located in an array, serve to project a common light: typically a single 1.6 kW xenon arc, incandescent High Intensity Discharge (HID) or laser light as may optionally pass through dichroic filters; to produce from multiple tiled segments: each typically twenty-one inches (21") in the diagonal; a high-resolution; normally 75 dpi or greater; seamless ultra-bright large or very large image, normally some meters or greater in diagonal measurement. Use of the single light source accords uniform and stable: (i) illumination intensity; (ii) color temperature; and (iii) color balance between and throughout all image segments, giving a high quality composite image suitable for scientific research, control rooms or electronic cinema. The light is preferably conducted to the multiple projectors through light pipes, preferably made of bundled optic fibers. Each projected image tile preferably passes through a fresnel lens, preferably a holographic fresnel lens.

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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04N 5/64(2006.01);5/74(2006.01);9/12(2006.01);G02F 1/00(2006.01)

USPC: 348/774,750,757,760,52,383;359/462,464,472;353/6,7,10,94

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. : 348/774, 750, 757, 760, 52, 383; 359/462, 464, 472; 353/6, 7, 10, 94

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US .5255.082 A (TAMADA) 19 October 1993 (9.10.1993), see entire document.	1-6

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

☐ See patent family annex.

* Special categories of cited documents.

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"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

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Paulos M. Natnael

Telephone No. (571) 272-2600