(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/036889 A1

(51) International Patent Classification[7]: H04N 13/00

(21) International Application Number:
PCT/NL2004/000725

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03078288.2 17 October 2003 (17.10.2003) EP

(71) Applicant *(for all designated States except US)*: **NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO** [NL/NL]; Schoemakerstraat 97, NL-2628 VK Delft (NL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **KOOI, Frank, Leonard** [NL/NL]; Klompenmakersgilde 18, NL-3994 XE Houten (NL). **HOGERVORST, Maarten, Andreas** [NL/NL]; Zonstraat 68, NL-3581 MV Utrecht (NL). **KRIEKAARD, Jacob, Jan** [NL/NL]; Turfstreek 65, NL-3766 HS Soest (NL).

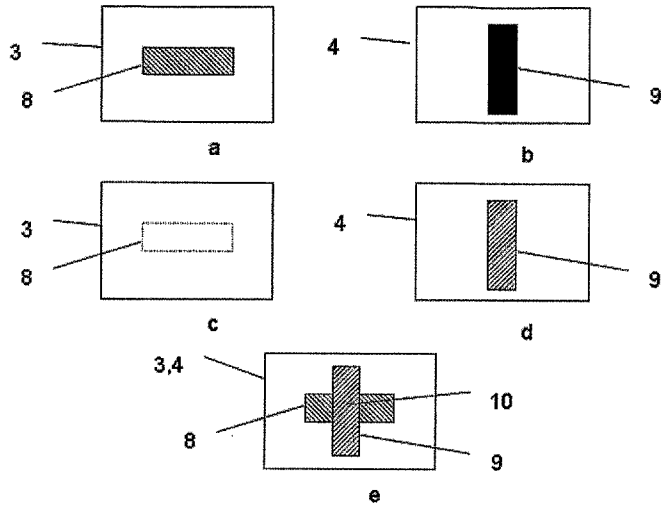
(74) Agent: **WINCKELS, J., H., F.**; Vereenigde, Johan de Wittlaan 7, NL-2517 JR Den Haag (NL).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: MULTI-PLANE DISPLAY FOR DISPLAYING OVERLAPPING IMAGES



(57) Abstract: The invention relates to a multi-layer display (1) for displaying coloured images comprising a light source (2), a first image screen (3), arranged for displaying a first image (8), whereby the first image screen (3) overlaps with and is placed substantially parallel with the light source (2), and a second translucent image screen, arranged for displaying a second image (8), whereby the second image screen (4) is placed spatially separated along a viewing axis perpendicular to the light source (2) and placed substantially parallel to and overlapping with the first image screen (3), whereby the first image screen (3) is controllable to alternate at least part of the first image (8) between transparent and a first appearance and the second image screen (4) is controllable to synchronously with the first image screen (3) alternate at least part of the second image (8) between occluded and a second appearance.

WO 2005/036889 A1

Published:
— *with international search report*

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.