

Title (en)

INTEGRATED BEAM SPLITTER AND POLARIZER FOR PROJECTION DISPLAY SYSTEM

Title (de)

INTEGRIERTER STRAHLVERZWEIGER UND POLARISIERER FÜR EIN PROJEKTIONSANZEIGESYSTEM

Title (fr)

DIVISEUR DE FAISCEAU ET POLARISEUR INTEGRES POUR SYSTEME D'AFFICHAGE PAR PROJECTION

Publication

**EP 1579700 A1 20050928 (EN)**

Application

**EP 03813961 A 20031211**

Priority

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- US 43524902 P 20021220

Abstract (en)

[origin: WO2004059989A1] An integrated beam splitter and polarizer (30) for a projection display system (80) includes a light guide array (32) having an exit face (W) for providing unpolarized white light, and having an array of entrance faces (36, 38, 40) for accepting colored light, a polarization beam splitter (42) for splitting the white light into polarized light of two different polarization states, two sets of color filters (F1 and F2) for splitting the white light into colored light, and for directing the light of different polarization states onto different sides of the array of exit faces, and a wave plate (52) for converting the colored light of one polarization state to colored light of the other polarization state.

IPC 1-7

**H04N 9/31**; **G02B 27/14**; **G02B 6/28**; **G02B 27/28**; **G02B 5/30**

IPC 8 full level

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CPC (source: EP KR)

**G02B 5/30** (2013.01 - KR); **G02B 6/2713** (2013.01 - EP); **G02B 6/29361** (2013.01 - EP); **G02B 6/4298** (2013.01 - EP); **G02B 27/283** (2013.01 - EP); **H04N 9/31** (2013.01 - KR); **H04N 9/3117** (2013.01 - EP)

Citation (search report)

See references of WO 2004059989A1

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