

Title (en)
COLOR RECOMBINATION FOR PROJEKTION DISPLAY SYSTEMS

Title (de)
FARB-REKOMBINATION FÜR PROJEKTIONS-ANZEIGESYSTEME

Title (fr)
RECOMBINAISON DE COULEURS POUR SYSTEMES D'AFFICHAGE A PROJECTION

Publication
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Application
EP 04737191 A 20040628

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Abstract (en)
[origin: WO2005002238A1] A method for combining more than one light beam into a single beam for a display device includes reflecting the light beams (202, 204, 206) off a first reflective polarizer (122), and then reflecting them off dichroic filters (132, 134, 136) at substantially normal respective angles of incidence to combine them into a combined light beam (210). In another aspect of the invention, a display system includes a first dichroic filter (132) capable of substantially totally reflecting a first color light beam (202) at substantially normal angles of incidence and capable of substantially totally transmitting second and third color light beams (204, 206) at substantially normal angles of incidence; a second dichroic filter (134), superposed over the first dichroic filter (132), capable of substantially totally reflecting a second color light beam (204) at substantially normal angles of incidence, and capable of substantially totally transmitting the third color light beams (206) at substantially normal angles of incidence; and a third dichroic filter (136), superposed over the first and second dichroic filters (132, 134), capable of substantially totally reflecting the third color light beam (206) at substantially normal angles of incidence. The first, second and third colors are all different from one another, and the first, second, and third colors are all different from one another, and the first, second, and third dichroic filters (132, 134, 136) are all non-parallel to one another.

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