

Title (en)  
COLOR FILTER UNIT AND PROJECTION SYSTEM EMPLOYING THE SAME

Title (de)  
FARBFILTEREINHEIT UND PROJEKTIONSSYSTEM DAMIT

Title (fr)  
FILTRE DE COULEURS ET SYSTEME DE PROJECTION L'UTILISANT

Publication  
**EP 1664903 A4 20091104 (EN)**

Application  
**EP 04774650 A 20040917**

Priority  

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- KR 20030097798 A 20031226

Abstract (en)  
[origin: WO2005029156A1] A color filter unit and a projection system employing the same. The color filter unit includes a first color selection polarization conversion element, which converts a polarization direction of a beam in a specific color band of an incident light, and a color filter, which separates light passed through the first color selection polarization conversion element according to color, so that color mixture in spectral boundaries between color beams is prevented. Because the color mixture occurring when beams into which light emitted from a white light source is separated are combined is prevented, the quality of an image is improved.

IPC 8 full level  
**G02B 27/28** (2006.01); **G03B 21/14** (2006.01); **H04N 9/31** (2006.01)

CPC (source: EP)  
**H04N 9/3117** (2013.01); **H04N 9/315** (2013.01); **H04N 9/3167** (2013.01)

Citation (search report)  

- [XY] WO 0070403 A1 20001123 - COLORLINK INC [US]
- [Y] US 5098183 A 19920324 - SONEHARA TOMIO [JP]
- [A] US 2003107809 A1 20030612 - CHEN JIANMIN [US], et al
- [A] US 6379010 B1 20020430 - SUZUKI TOSHIHIRO [JP], et al
- See references of WO 2005029156A1

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**WO 2005029156 A1 20050331**; EP 1664903 A1 20060607; EP 1664903 A4 20091104

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**KR 2004002391 W 20040917**; EP 04774650 A 20040917