

Title (en)

OPTICAL DEVICE AND MICROSCOPE COMPRISING AN OPTICAL DEVICE FOR THE COLLINEAR COMBINATION OF LIGHT BEAMS OF VARYING WAVELENGTHS

Title (de)

OPTISCHE VORRICHTUNG UND MIKROSKOP MIT EINER OPTISCHEN VORRICHTUNG ZUR KOLLINEAREN VEREINIGUNG VON LICHTSTRAHLEN UNTERSCHIEDLICHER WELLENLÄNGE

Title (fr)

DISPOSITIF OPTIQUE ET MICROSCOPE COMPRENANT UN DISPOSITIF OPTIQUE POUR REALISER LA COMBINAISON COLINEAIRE DE FAISCEAUX LUMINEUX DE LONGUEURS D'ONDE DIFFERENTES

Publication

**EP 1656578 A1 20060517 (DE)**

Application

**EP 04766443 A 20040806**

Priority

- EP 2004051739 W 20040806
- DE 10337558 A 20030814

Abstract (en)

[origin: WO2005019898A1] The invention relates to an optical device containing a dispersive element (1) and a projection lens (5), which define a splitting plane (7), on which a location is assigned to each light wavelength. A microstructured element (9) is located on the splitting plane, said element guiding light beams (13, 19), which emanate from different directions and are focused on the locations corresponding to their wavelengths, through the projection lens (5) to the dispersive element (1), which combines the light beams in a collinear manner.

IPC 1-7

**G02B 21/00**; **G02B 27/10**

IPC 8 full level

**G02B 21/00** (2006.01); **G02B 26/08** (2006.01); **G02B 27/14** (2006.01)

CPC (source: EP US)

**G02B 21/0024** (2013.01 - EP US); **G02B 26/0833** (2013.01 - EP US); **G02B 27/126** (2013.01 - EP US)

Citation (search report)

See references of WO 2005019898A1

Cited by

DE102013227105A1

Designated contracting state (EPC)

DE DK FR GB

DOCDB simple family (publication)

**WO 2005019898 A1 20050303**; DE 10337558 A1 20050310; EP 1656578 A1 20060517; JP 2007502443 A 20070208; US 2007070348 A1 20070329

DOCDB simple family (application)

**EP 2004051739 W 20040806**; DE 10337558 A 20030814; EP 04766443 A 20040806; JP 2006523012 A 20040806; US 56767904 A 20040806