

Title (en)

ELECTRO-OPTIC DEVICE ALLOWING WAVELENGTH TUNING

Title (de)

ELEKTROOPTISCHE VORRICHTUNG, DIE EINE KONTINUIERLICHE WELLENLÄNGENABSTIMMUNG ZULÄSST

Title (fr)

DISPOSITIF ELECTRO-OPTIQUE PERMETTANT L'ACCORD EN LONGUEUR D'ONDE

Publication

EP 1203260 A1 20020508 (EN)

Application

EP 00947213 A 20000712

Priority

- US 0018882 W 20000712
- US 14328499 P 19990712

Abstract (en)

[origin: WO0104697A1] Surface textures embossed in a substrate such as plastic include surface depressions or cones having equally-spaced, reflective terraced steps to support coherent reflections of incident light. A desired color or bandwidth of coherent reflected light off the terraced steps is produced by adjusting the index of refraction of a material in communication with the terraced steps of the substrate. Preferably, the index of refraction of each zone of terraced steps is controlled based on an applied electric field. Accordingly, light reflected from a plurality of controlled zones can be used to produce an image for an observer.

IPC 1-7

G02F 1/21; **G02F 1/1333**

IPC 8 full level

G02B 26/00 (2006.01); **G02F 1/1333** (2006.01); **G02F 1/21** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 0104697A1

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