

Title (en)
VARIABLE FOCUS OPTICAL SYSTEM

Title (de)
OPTISCHES SYSTEM MIT VARIABLEM FOCUS

Title (fr)
SYSTÈME OPTIQUE À FOCAL VARIABLE

Publication
EP 2329306 A4 20110831 (EN)

Application
EP 08799347 A 20080909

Priority
US 2008075679 W 20080909

Abstract (en)
[origin: WO2010030267A1] A variable focus illumination system includes a light source which projects light forwardly, in the path of the light from the source, a movable lens forward of the light source which is mounted for axial movement towards and away from the light source, and a stationary lens is mounted forward of the moving lens. By design, the lens combination creates an image of the light source which is rearward of the actual light source, and movement of the movable lens focuses the light projected forwardly from the image. In comparison to a single lens system, in this dual lens system, the positioning accuracy required in the moving lens in order to achieve a given positional accuracy of focus may be an order of magnitude lower. In accordance with another aspect of the invention, the movable lens is formed as a unit with an opposed, spaced aperture of fixed diameter.

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CPC (source: EP)
G02B 7/08 (2013.01); **G02B 27/20** (2013.01); **G06K 7/10732** (2013.01)

Citation (search report)

- [X] EP 0757270 A1 19970205 - SCANTECH BV [NL]
- [A] US 5302812 A 19940412 - LI YAJUN [US], et al
- See references of WO 2010030267A1

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