Title (en)

VARIABLE FOCUS OPTICAL SYSTEM

Title (de

**OPTISCHES SYSTEM MIT VARIABLEM FOCUS** 

Title (fr)

SYSTÈME OPTIQUE À FOCALE VARIABLE

Publication

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Application

EP 08799347 A 20080909

Priority

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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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