

[54] MULTIFOCAL ZONE PLATE

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Related U.S. Application Data

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[58] Field of Search ..... 351/160, 161, 168; 350/211, 162 ZP

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[57] ABSTRACT

A multifocal Fresnel lens construction suitable for use in optical systems with multifocal requirements. It is designed as a multifocal zone plate to allow an annular ring construction that isn't width limited by diffraction aberrations. This is accomplished by modifying the phase separating annular rings of a zone plate, with curved or inclined optical facets of varying refractive indices, which can then function as Fresnel rings corresponding to the different focal powers desired.

15 Claims, 12 Drawing Figures

