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Zalevsky et al.

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(54) **MULTI-FOCAL LENS**

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See application file for complete search history.

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(57) **ABSTRACT**

An imaging lens structure and method of imaging are presented. The imaging lens structure comprising a lens region defining an effective aperture of the lens structure. The lens region comprises an arrangement of lens zones distributed within the lens region and comprising zones of at least two different optical functions differently affecting light passing therethrough. The zones of at least two different optical functions are arranged in an interlaced fashion along said lens region corresponding to a surface relief of the lens region such that adjacent lens zones of different optical functions are spaced apart from one another along an optical axis of the lens structure a distance larger than a coherence length of light at least one spectral range for which said lens structure is designed.

28 Claims, 9 Drawing Sheets

