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(54) Title: IOL WITH VARYING CORRECTION OF CHROMATIC ABERRATION

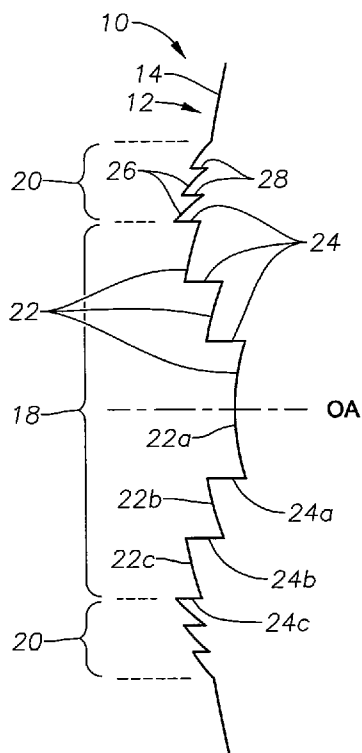


Fig. 1B

(57) Abstract: An ophthalmic lens includes an optical filter operable to filter out at least visible light having a wavelength less than 450 nm. The lens also includes a first diffractive structure adapted to produce a focus for visible light in a first wavelength range above 550 nm and to reduce longitudinal chromatic aberration to less than one diopter for incoming visible light in the first wavelength range. The lens also includes a second diffractive structure outside the first diffractive structure in a radial direction and adapted to produce a focus for visible light in a second wavelength range between 450 nm and 550 nm. The second diffractive structure is also adapted to reduce longitudinal chromatic aberration for incoming visible light in the second wavelength range to less than one diopter while allowing longitudinal chromatic aberration in the first wavelength range in an amount greater than the first diffractive structure.



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