

Title (en)

MULTIFOCAL LENS HAVING A PROGRESSIVE OPTICAL POWER REGION AND A DISCONTINUITY

Title (de)

MULTIFOKALE LINSE MIT OPTISCHEM GLEITSICHTBEREICH UND DISKONTINUITÄT

Title (fr)

LENTILLE MULTIFOCAL AYANT UNE RÉGION DE PUISSANCE OPTIQUE PROGRESSIVE ET UNE DISCONTINUITÉ

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Application

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Abstract (en)

[origin: WO2008121975A2] Embodiments of the present invention relate to a multifocal lens having a diffractive optical power region and a progressive optical power region. Embodiments of the present invention provide for the proper alignment and positioning of each of these regions, the amount of optical power provided by each of the regions, the optical design of the progressive optical power region, and the size and shape of each of the regions. The combination of these design parameters allows for an optical design having less unwanted astigmatism and distortion as well as both a wider channel width and a shorter channel length compared to conventional PALs. Embodiments of the present invention may also provide a new, inventive far-intermediate distance zone and may further provide for increased vertical stability of vision within a zone of the lens.

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