

V. ПАТЕНТЫ / PATENTS

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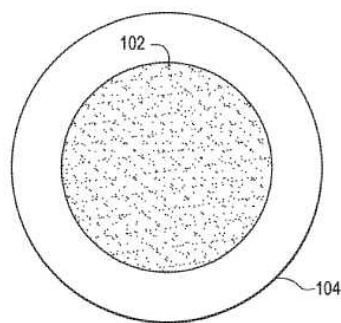
Реферат документа **WO2016076743 (A1) – 2016-05-19**

CONTACT LENS FOR CORRECTING EYESIGHT (EMBODIMENTS)

The inventions relate to medicine, more particularly to the field of ophthalmology, and even more particularly to various design embodiments of contact lenses intended for correcting eyesight. The claimed technical result is achieved by the proposed design embodiments of a contact lens for correcting eyesight, which allow, depending on the design embodiment, for eliminating the deformation of central corneal epithelial cells, for achieving and maintaining an orthokeratological effect, for creating a peripheral myopic defocus, inter alia for slowing the progression of myopia, for decreasing damage to the corneal epithelium during use, for reducing damage upon insertion and removal of a contact lens, for increasing the efficacy of vision correction and accelerating the process of vision correction, for enabling centering of the contact lens, and also for enabling a multifocal effect, and for providing nutrition to the cornea. The proposed design embodiments of a contact lens for correcting eyesight can be broadly applied in ophthalmology, as said embodiments will allow not only for correcting eyesight, but also for maintaining a level of eyesight, including during a period of preparation for surgical intervention.

Реферат документа **AU2016201940 (A1) – 2016-05-12**

INCREASED STIFFNESS CENTER OPTIC IN SOFT CONTACT LENSES FOR ASTIGMATISM CORRECTION



A molded contact lens comprising a stiffer optic zone relative to the peripheral zone of the contact lens provides an optical element for correcting astigmatism without the need for or substantially minimizing

the need for the correction of rotational misalignment. The higher elastic modulus optic zone vaults over the cornea thereby allowing a tear lens to form. The tear lens fol-

lows or assumes the shape of the back surface of the contact lens. The combination of the tear lens and the optical zone provide an optical element for correction of refractive error.

Реферат документа **WO2016076523 (A1) – 2016-05-19**

BIOSENSOR, TRANSPARENT CIRCUITRY AND CONTACT LENS INCLUDING SAME

Lenses, including contact lenses, and other transparent substrates include electronic circuits having patterned conductors and antenna structures which are transparent, flexible and conductive. A patterned conductor or antenna structure can be a combination of two-dimensional material such as graphene and one-dimensional material such as metal nanowires. The patterned conductor or antenna structure can be wrinkled or otherwise pre-stressed, to accommodate stretching and folding of the substrate. A biosensor having a sensor unit and an antenna unit, or other type of circuit, can be formed using these materials, and can be disposed on a contact lens.

Реферат документа **WO2016067433 (A1) – 2016-05-06**

LENS SYSTEM AND CONTACT LENS

It is difficult to automatically adjust the refractive power of a contact lens so that an object viewed by a wearer of the contact lens can be focused. In the present invention, a lens system comprises: a pair of lenses, worn directly on the eyes of a wearer; and a control unit, carried by the wearer, for controlling the pair of lenses. Each lens in the pair of lenses includes a lens body capable of varying the refractive power of the lens on the basis of control by the control unit, and a position sensor for detecting and outputting the spatial position of the lens body. The control unit controls the refractive power of each lens body in the pair of lenses on the basis of the output from each position sensor in the pair of lenses.