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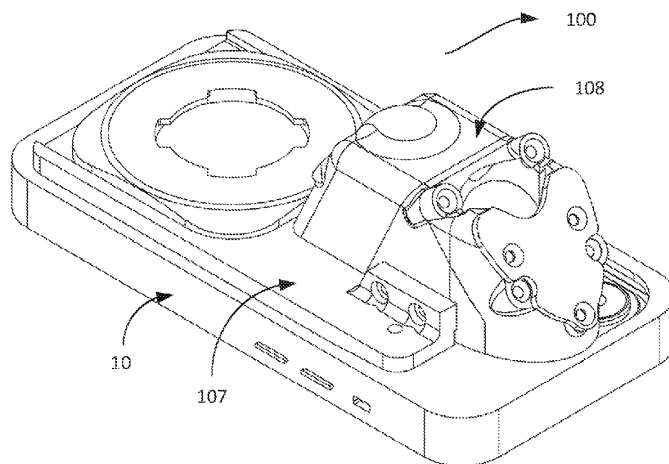


FIG. 1

(57) Abstract: The present invention relates to a system to assess myopia by measurement of diopters and axial length of an eye. The system comprises a smartphone with picture taking capability, a computer programming product installed on the smartphone capable of navigating the camera on the phone and extracting data from images. Another computer programming product is provided on the cloud and is capable of analyzing digital data from images of eyes for statistical features and assess refractive error in diopter and/or axial length of an eye thereof. The system further includes an optical assembly attachment attached to the back of the smartphone to guide light from a flashlight on a smartphone towards an eye for better image quality captured by the camera.

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