

OPHTHALMIC LENS WITH RETINAL VASCULARIZATION MONITORING SYSTEM

ABSTRACT

The present invention relates to an ophthalmic device with a retinal vascularization monitoring system and associated methods. In some embodiments, the ophthalmic device can be a contact lens with a retinal vascularization monitoring system that can be used to monitor temporal changes of a pulsating vessel forming part of the retinal vascularization. Further, the retinal vascularization monitoring system may include elements for delivering a signal, including an audible and/or visual message, to the user that can be useful for identifying abnormal conditions such as a cardiac failure without delay. The audible and/or visual messages can be signals communicated to the user using one or both of the ophthalmic device and a wireless device in communication with the ophthalmic device.

Fig. 1A