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(54) Title: INTRAOCULAR PRESSURE MONITORING DEVICE

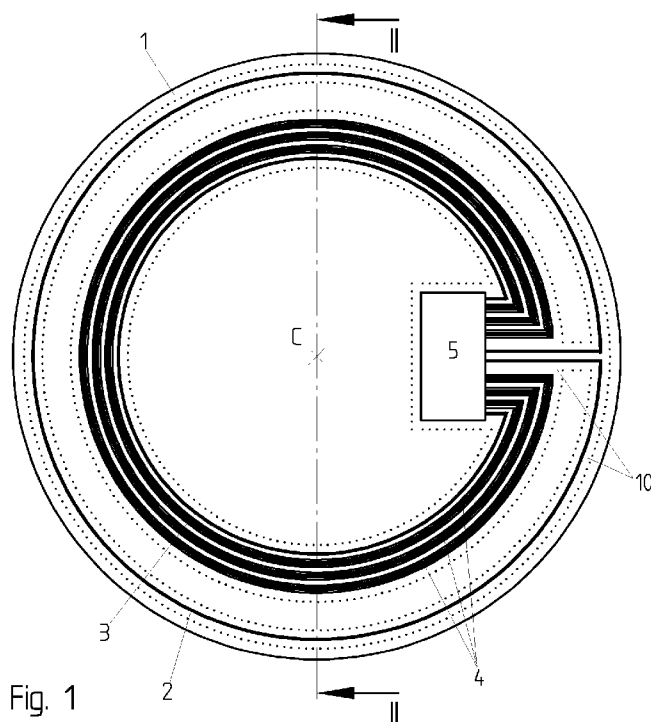


Fig. 1

(57) Abstract: Intraocular pressure monitoring device comprising a soft contact lens (1) and a pressure sensor united with the contact lens (1), the pressure sensor comprising an active strain gage (2), a passive gage (3), a rigid element (4) and a microprocessor (5). The active strain gage (2), passive gage (3) and rigid element (4) are placed at a distance from the center (C) of the contact lens, the active strain gage (2) comprising a portion encircling the center (C) of the contact lens (1) on at least 180°, wherein the passive gage (3) and the rigid element (4) each comprise a portion encircling the center (C) of the contact lens (1) on at least 180°, and wherein the portion of the passive gage (3) situated around the center (C) of the contact lens (1) is placed in immediate vicinity of the portion of the rigid element (4) situated around the center (C) of the contact lens (1). Kit comprising such a pressure monitoring device and a portable recording device (6) configured for communicating with the pressure monitoring device and for storing data received from it. Intraocular pressure monitoring system comprising such a kit and a computing device (7) configured for communicating with the portable recording device (6) for receiving and/or processing and/or storing data received from the portable recording device (6).