

ABSTRACT

ELECTRONIC OPHTHALMIC LENS WITH SLEEP MONITORING

5 An eyelid position sensor system and/or an eye movement sensor system for an
ophthalmic lens having an electronic system is described herein for recording data
associated with sleep of the wearer. The eyelid position sensor system is part of an
electronic system incorporated into the ophthalmic lens. The electronic system in at
least one embodiment includes a system controller and a data manager. In at least one
10 embodiment, the eyelid position sensor system is utilized to determine eyelid position
and the eye movement sensor system is utilized to determine eye position for the
system controller to determine if the wearer is awake, asleep, or in REM sleep.

Figure 1A