

ABSTRACT

HIGH-VOLTAGE H-BRIDGE CONTROL CIRCUIT FOR A LENS DRIVER OF AN ELECTRONIC OPHTHALMIC LENS

5 A lens driver or lens driver circuitry for an ophthalmic apparatus comprising an
electronic system which actuates a variable-focus optic is disclosed herein. The lens
driver is part of an electronic system incorporated into the ophthalmic apparatus. The
electronic system includes one or more batteries or other power sources, power
management circuitry, one or more sensors, clock generation circuitry, control
algorithms and circuitry, and lens driver circuitry. The lens driver circuitry includes one
10 or more power sources, one or more high voltage generators and one or more switching
circuits. Specifically, the lens driver comprises an H-bridge/H-bridge controller for
providing the proper voltage, including polarity, to drive the electronic included in the
ophthalmic apparatus.

15 Figure 1