

ABSTRACT OF THE DISCLOSURE

METHODS AND APPARATUS TO ENHANCE OXYGEN CONCENTRATIONS FOR OPHTHALMIC DEVICES

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Methods and apparatus to enhance levels of oxygen in tear fluid under a worn advanced contact lens are described. The contact lens may include an encapsulated hard lens element which is impermeable to fluid flow across its body. The method of enhancement may include creating pores through the hard lens element, creating channels
10 in portions of the contact lens body, including layers of absorptive material, and creating means of moving tear fluid under the contact lens.

Figure 1B