

ABSTRACT OF THE DISCLOSURE

METHODS AND APPARATUS TO ENHANCE OXYGEN CONCENTRATIONS FOR ADVANCED OPHTHALMIC DEVICES

5

10

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

Figure 1B