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Frey et al.

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(54) **SYSTEM AND APPARATUS FOR TREATING THE LENS OF AN EYE**

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USPC 606/4–6, 107, 166, 10–12
See application file for complete search history.

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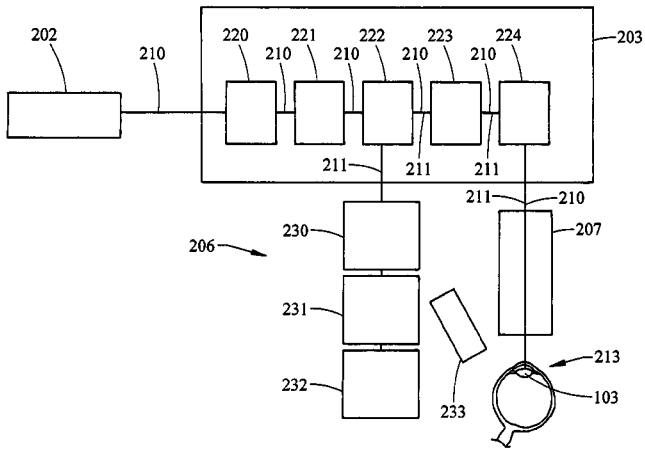
(57) **ABSTRACT**

A system and apparatus for increasing the amplitude of accommodation and/or changing the refractive power and/or enabling the removal of the clear or cataractous lens material of a natural crystalline lens is provided. Generally, the system comprises a laser, optics for delivering the laser beam and a control system for delivering the laser beam to the lens in a particular pattern. There is further provided apparatus for determining the shape and position of the lens with respect to the laser. There is yet further provided a method and system for delivering a laser beam in the lens of the eye in a predetermined shot pattern.

184 Claims, 37 Drawing Sheets