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(54) Title: FLUID-FILLED LENSES AND THEIR OPHTHALMIC APPLICATIONS

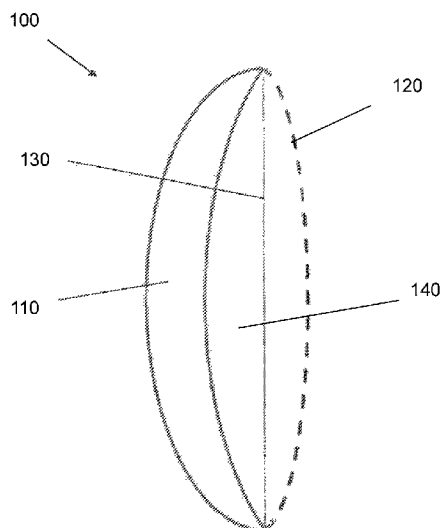


FIG. 1

(57) Abstract: A fluid lens assembly including a front rigid lens, a semi-flexible membrane that is adapted to be expanded from a minimum inflation level to a maximum inflation level, and a fluid layer therebetween. The front lens of the fluid lens assembly is configured to have a negative optical power. In an embodiment, the fluid lens assembly may be configured to have an overall negative optical power when the membrane is expanded to the maximum inflation level. In an embodiment, the fluid lens assembly can be configured to have an overall negative optical power when the membrane is expanded between the minimum inflation level and the maximum inflation level.



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