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(72) Inventors; and

(71) Applicants : **EGAN, William** [US/US]; 2105 North Nowlin Trail, Jackson, WY 83001 (US). **HAROUD, Karim** [CH/CH]; 1512 Chavannes Sur Moudon, CH-6 Bourg Du Village (CH). **NIBAUER, Lisa** [US/US]; 1 Crescent Place, Short Hills, NJ 07078 (US). **PETERSON, Matthew, Wallace** [US/US]; 115 Neveda, San Francisco, CA 94110 (US). **SCHNELL, Urban** [CH/CH]; 3053 Munchenbuchsee, CH-16 Eichgutweg (CH). **SENATORE, Daniel** [US/US]; 260 Bay, Apt. 101, San Francisco, CA 94133 (US).

(74) Agents: **STERNE, Robert, Greene et al.**; Sterne, Kessler, Goldstein & Fox P.L.L.C., 1100 New York Avenue, NW, Suite 800, Washington, DC 20005 (US).

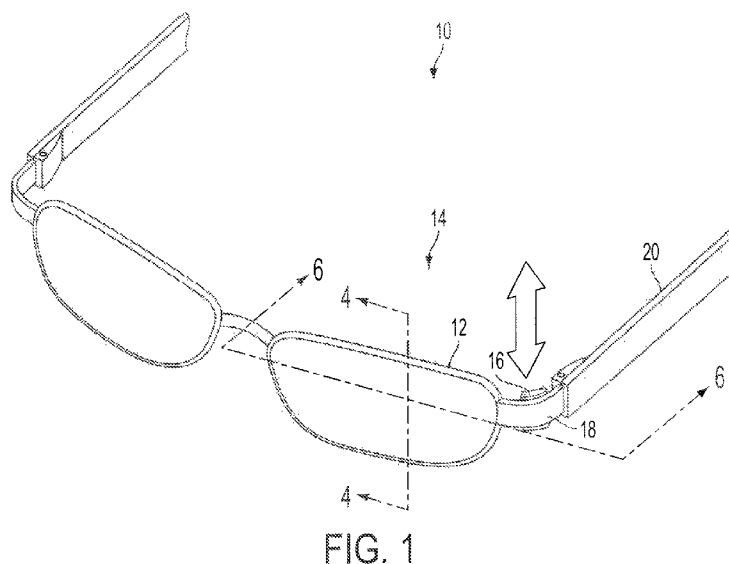
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(54) Title: FLUID-FILLED LENSES AND ACTUATION SYSTEMS THEREOF



(57) Abstract: An actuator assembly for an adjustable fluid-filled lens is provided. In some embodiments, the actuator assembly includes a clamp configured to adjust the optical power of the fluid lens module when the clamp is compressed. In some embodiments, a magnetic element is configured to adjust the optical power of the fluid-filled lens. In some embodiments, a plunger changes the optical power of the fluid lens module. In some embodiments, a reservoir is configured such that deformation of the reservoir changes the optical power of the fluid-filled lens. In some embodiments, a balloon is configured to deform the reservoir. In some embodiments, an adjustable fluid-filled lens includes a septum configured to be pierceable by a needle and automatically and fluidly seal a fluid chamber after withdrawal of the needle. In some embodiments, a thermal element can heat fluid within a fluid chamber to change an optical power of the lens module.