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(71) Applicant: **BERKELEY LIGHTS, INC.** [US/US]; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US).

(72) Inventors: **MCFARLAND, Andrew, W.**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **MALLEO, Daniele**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **NEVILL, J., Tanner**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **NEWSTROM, Russell, A.**; 5858 Horton

Street, Suite 320, Emeryville, California 94608 (US). **BREINLINGER, Keith, J.**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **LUNDQUIST, Paul, M.**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **VALLEY, Justin, K.**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US). **HUBBARD, Jonathan, Cloud Dragon**; 5858 Horton Street, Suite 320, Emeryville, California 94608 (US).

(74) Agents: **BURSE, David, T.** et al.; Vista IP Law Group LLP, 14375 Saratoga Avenue, Suite 203, Saratoga, California 95070 (US).

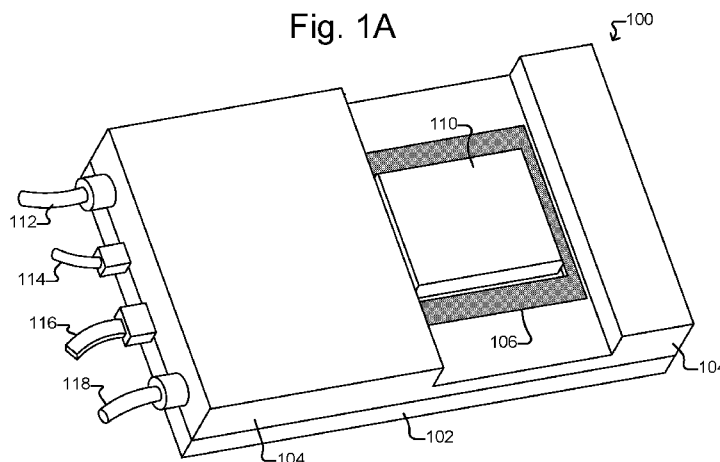
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(54) Title: SYSTEMS FOR OPERATING ELECTROKINETIC DEVICES

Fig. 1A



(57) Abstract: A system for operating an electrokinetic device includes a support configured to hold and operatively couple with the electrokinetic device, an integrated electrical signal generation subsystem configured to apply a biasing voltage across a pair of electrodes in the electrokinetic device, and a light modulating subsystem configured to emit structured light onto the electrokinetic device. The system can further include a thermally controlled flow controller, and/or be configured to measure impedance across the electrokinetic device. The system can be a light microscope, including an optical train. The system can further include a light pipe, which can be part of the light modulating system, and which can be configured to supply light of substantially uniform intensity to the light modulating system or directly to the optical train.



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