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(54) **FAST LATCHING SWITCHES**

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(57) **ABSTRACT**

Devices, methods and techniques related to ultrafast latching switches are disclosed. In one example aspect, a device includes a photoconductive switch and a non-mechanical latching switch configured to maintain a state after the state is activated. The non-mechanical latching switch is coupled to the photoconductive switch. The non-mechanical latching switch is configured to be triggered to switch to an opposite state upon an activation of the photoconductive switch.