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(54) **TRANSMITTER CHARGING MODULE FOR LIGHT DETECTION AND RANGING (LIDAR) DEVICE**

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(57) **ABSTRACT**

Example embodiments relate to transmitter charging modules for light detection and ranging (lidar) devices. An example embodiment includes a method. The method includes receiving, from a controller, an indication of a first set of light emitters to be fired during a firing cycle. The first set of light emitters is a subset of a plurality of light emitters of the lidar device. The method also includes selectively charging, by a charging circuit of the lidar device during a charging cycle, a first set of energy storage devices of the lidar device. Additionally, the method includes refraining from charging, by the charging circuit of the lidar device during the charging cycle, each energy storage device in the plurality of energy storage devices that is not in the first set of energy storage devices. Further, the method includes emitting light signals from the first set of light emitters during the firing cycle.