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(54) **SECURING A COMPUTING DEVICE
ACCESSORY**

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(57) **ABSTRACT**

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An online service may use a computing system to authenticate a remote accessory device by establishing an encrypted communication channel with the remote accessory device, the remote accessory device being connected to a host device. Then, using the encrypted communication channel, obtain a device certificate possessed by the remote accessory device. The online service may then receive a first device token from the remote accessory device and determine whether the first device token exists within a token history associated with the device certificate. Based on the first device token existing within the token history, the online service may then determine that the remote accessory device is an authentic device; generate a second device token for the remote accessory device; store the second device token in the token history associated with the device certificate; and send the second device token to the remote accessory device.

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