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(54) Title: READER AND ENCRYPTION DEVICE BINDING WITH COMPUTER

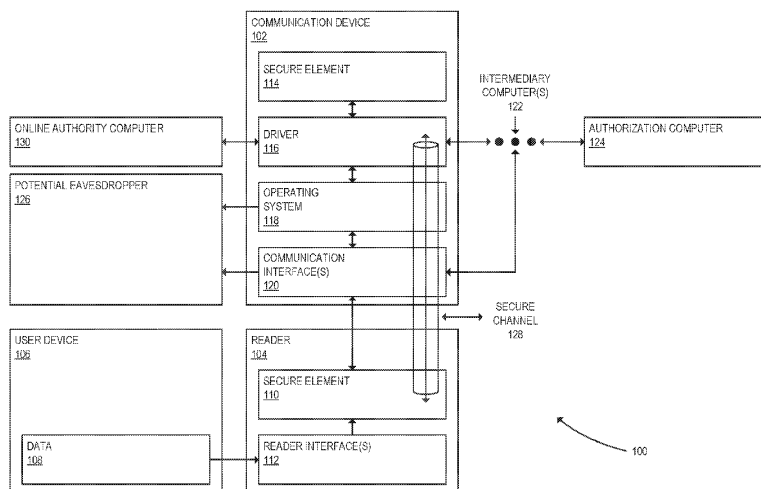


FIG. 1

(57) Abstract: Methods and systems for establishing a cryptographic binding between a secure element of a reader and a driver of a communication device are disclosed. Such a cryptographic binding can enable data (e.g., credentials) read or otherwise acquired by the reader to be securely transmitted to the driver of the communication device, and can prevent interception of those data using e.g., packet sniffing or protocol analysis malware as those data are transmitted over components of the communication device, such as a communication bus. The communication device can use the driver to verify the secure element of the reader using identification data associated with the secure element. Upon successful verification, the communication device can establish a mutual secret key between the secure element of the reader and the driver, thereby enabling encrypted communication between the two.

[Continued on next page]

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