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(54) Title: PUBLIC-PRIVATE KEY PAIR PROTECTED PASSWORD MANAGER

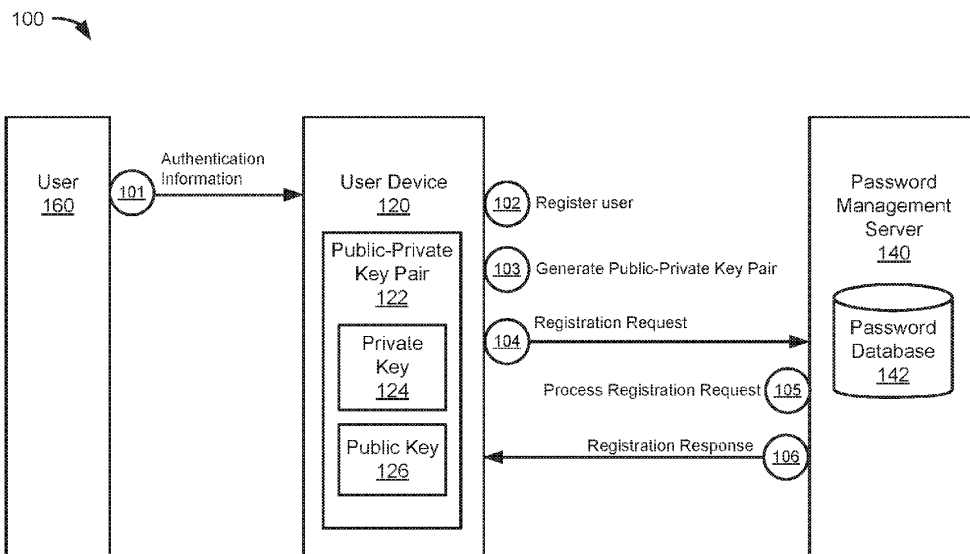


FIG. 1

(57) Abstract: Embodiments of the invention provide methods and systems for password management using public-private key cryptography. A user device generates a public-private key pair including a public key and a private key and registers the public key with a remote password management server. Account names and passwords can be stored at the password management server in association with the public key. To retrieve the passwords, the user device sends a request to the password management server including the public key. The password management server determines the password from the stored passwords and encrypts it using the public key. The encrypted password is sent to the user device, which can decrypt the encrypted password using the private key corresponding to the public key. The user device can then use the account name and password can to obtain account information from an account provider.

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