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(54) Title: SERVER-ASSISTED PRIVACY PROTECTING BIOMETRIC COMPARISON

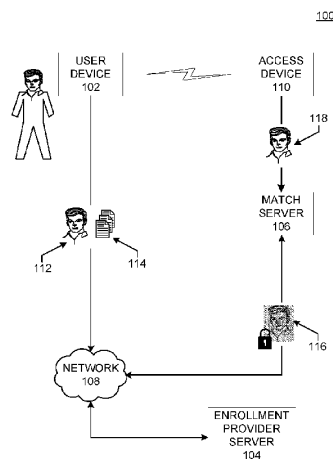


FIG. 1

(57) Abstract: Described herein are a system and techniques for enabling biometric authentication without exposing the authorizing entity to sensitive information. In some embodiments, the system receives a biometric template from a user device which is encrypted using a public key associated with the system. The encrypted biometric template is then provided to a second entity along with a biometric identifier. Upon receiving a request to complete a transaction that includes the biometric identifier and a second biometric template, the second entity may encrypt the second biometric template using the same public key associated with the system and perform a comparison between the two encrypted biometric templates. The resulting match result data file is already encrypted and can be provided to the system to determine an extent to which the two biometric templates match.

[Continued on next page]

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