

## CLAIMS

1. A method for identity authentication, the method comprising:

selecting (101) a predetermined amount of fingerprint information from a user's plurality of recorded fingerprints;

outputting, in a predetermined fingerprint recognition sequence or in a random recognition sequence, fingerprint input prompt information based on fingerprint identification information, the fingerprint input prompt information corresponding to the selected predetermined amount of fingerprint information, wherein the fingerprint input prompt information is used to prompt the user to successively enter fingerprint information corresponding to the fingerprint identification information;

receiving (102, 205) a predetermined amount of fingerprint information successively entered by the user based on the fingerprint input prompt information, the received predetermined amount of fingerprint information pertaining to a plurality of received fingerprints of the user;

matching (103, 206) the received predetermined amount of fingerprint information against the selected predetermined amount of fingerprint information, wherein matching (103, 206) comprises successively matching each fingerprint information entered in response to a prompt request against a corresponding fingerprint of the selected predetermined amount of fingerprint information;

confirming (104, 207) that identity authentication succeeds when the received predetermined amount of fingerprint information matches the selected predetermined amount of fingerprint information, wherein confirming (104, 207) comprises confirming that identity authentication succeeds when each fingerprint information entered in response to the prompt request successively matches a corresponding recorded fingerprint of the selected predetermined amount of fingerprint information, before next fingerprint information to be entered is prompted; and

prompting an identity authentication failure if a current fingerprint information of the fingerprint information entered in response to a current prompt request does not match a corresponding fingerprint of the selected predetermined fingerprint information.

2. The method according to claim 1, further comprising:

detecting whether fingerprint information entered by the user is received within a predetermined time period every time prompt information is output; and

if no, confirming that identity authentication fails and outputting alarm information indicating that an operation times out.

3. The method according to claim 1, further comprising:

confirming that identity authentication fails and outputting alarm information indicating that identity authentication fails when the received predetermined amount of fingerprint information does not match the selected predetermined amount of fingerprint information.

4. The method according to claim 1, wherein before selecting the predetermined amount of fingerprint information from a user's plurality of recorded fingerprints, the method further comprises:

detecting whether the user currently logs in; and

if no, outputting prompt information prompting the user to log in by using an account; and

the selecting a predetermined amount of fingerprint information from a user's plurality of recorded fingerprints comprises:

if yes, obtaining login account information of the user; and

selecting a predetermined amount of fingerprint information from a plurality of recorded fingerprints corresponding to the account information.

5. The method according to claim 1, wherein before selecting a predetermined amount of fingerprint information from a user's plurality of recorded fingerprints, the method further comprises:

recording (201) each fingerprint information entered by the user and fingerprint identification information corresponding to each fingerprint information;

detecting (202) whether currently entered fingerprint information exists in recorded fingerprint information in a process of recording the fingerprint information entered by the user; and

if yes, stopping (203) recording the currently entered fingerprint information and outputting

alarm information indicating that a fingerprint is repeatedly entered.

6. The method according to any one of claims 1 to 5, wherein the fingerprint identification information comprises a name or an identity (ID) number associated with the fingerprint.

7. The method according to any one of claims 1 to 6, wherein the predetermined amount of fingerprint information is selected based on a security level.

8. A device for identity authentication, the device comprising a plurality of modules configured to perform the method of any one of claims 1 to 7.