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— 包括国际检索报告(条约第 21 条(3))。

(54) Title: ELECTRONIC DEVICE AND PASSWORD AUTHENTICATION METHOD THEREFOR

(54) 发明名称: 电子设备及其密码验证方法

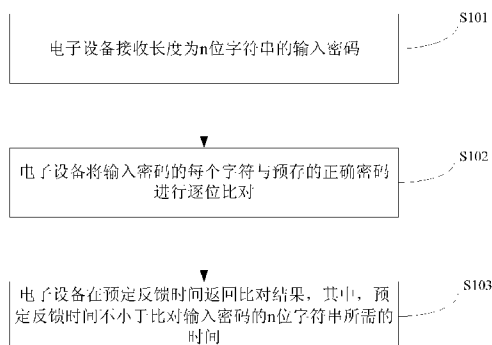


图 1 / Fig. 1

S101 AN ELECTRONIC DEVICE RECEIVING AN ENTERED PASSWORD OF WHICH THE LENGTH IS N-BIT CHARACTER STRINGS
S102 THE ELECTRONIC DEVICE PERFORMING BIT-BY-BIT COMPARISON ON EACH CHARACTER OF THE ENTERED PASSWORD AND A PRE-STORED CORRECT PASSWORD
S103 THE ELECTRONIC DEVICE RETURNING A COMPARISON RESULT IN PRESET FEEDBACK TIME OR RANDOM FEEDBACK TIME, WHEREIN THE PRESET FEEDBACK TIME IS NOT LESS THAN THE TIME NEEDED FOR COMPARING THE N-BIT CHARACTER STRINGS OF THE ENTERED PASSWORD

(57) Abstract: Proposed are an electronic device and a password authentication method therefor. The password authentication method comprises the following steps: an electronic device receiving an entered password of which the length is n-bit character strings, the n being equal to or greater than 1; the electronic device performing bit-by-bit comparison or random comparison on each character of the entered password and a pre-stored correct password; and the electronic device returning a comparison result in preset feedback time or random feedback time, wherein neither the preset feedback time nor the random feedback time is less than the time needed for comparing the n-bit character strings of the entered password. According to the password authentication method for an electronic device in the embodiments of the present invention, regardless of the comparison result, the electronic device returns the result of password authentication in the preset feedback time or the random feedback time, so that lawbreakers on the network cannot calculate a complete and correct password according to the rule of feedback time, and the security of the password of the electronic device is improved, thereby improving the security of user accounts.

(57) 摘要:

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本发明提出一种电子设备及其密码验证方法。其中，密码验证方法包括以下步骤：电子设备接收长度为 n 位字符串的输入密码，所述 $n \geq 1$ ；所述电子设备将所述输入密码的每个字符与预存的正确密码进行逐位比对或随机比对；所述电子设备在预定反馈时间或随机反馈时间返回比对结果，其中，所述预定反馈时间或所述随机反馈时间均不小于比对所述输入密码的 n 位字符串所需的时间。根据本发明实施例的用于电子设备的密码验证方法，不管比对结果如何，电子设备均在预先设定的反馈时间或者随机反馈时间返回密码验证的结果，由此网络上的不法分子无法根据反馈时间规律计算出完整的正确密码，提高了电子设备的密码的安全性，从而提高了用户账号的安全性。