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(54) Title: VOICEPRINT INFORMATION MANAGEMENT METHOD AND DEVICE AS WELL AS IDENTITY AUTHENTICATION METHOD AND SYSTEM

(54) 发明名称: 声纹信息管理方法、装置以及身份认证方法、系统

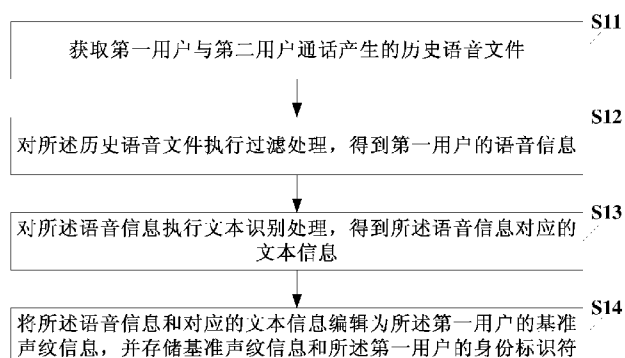


图 1 / Fig. 1

- S11 Acquire a historical voice file generated when a first user makes a call with a second user
- S12 Filter the historical voice file to obtain voice information of the first user
- S13 Perform text identification processing on the voice information to obtain text information corresponding to the voice information
- S14 Edit the voice information and the corresponding text information into reference voiceprint information of the first user, and store the reference voiceprint information and the identity of the first user

(57) Abstract: A voiceprint information management method and device as well as an identity authentication method and system. The voiceprint information management method comprises: filtering a historical voice file stored in a related system to obtain voice information of a first user (S12), performing text identification processing to obtain text information corresponding to the voice information (S13), and editing the voice information and the corresponding text information into reference voiceprint information of the first user. As the text information and the voice information in the reference voiceprint information are both obtained based on the historical voice file and are not preset by a related system, that is, the text information and the voice information are not public and no user can predict the specific content of the text information that needs to be re-read when identity authentication is executed, so that a corresponding audio file cannot be recorded in advance and successful authentication cannot be achieved by playing the audio file recorded in advance.

The identity authentication is performed based on voiceprint information management, the authentication result is more accurate, no potential safety hazard exists and the account security is higher.

(57) 摘要:

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本国际公布:

— 包括国际检索报告(条约第 21 条(3))。

一种声纹信息管理方法、装置以及身份认证方法、系统，其通过对相关系统存储的历史语音文件进行过滤，得到第一用户的语音信息（S12），并通过文本识别处理得到该语音信息对应的文本信息（S13），并将该语音信息和对应的文本信息编辑为第一用户的基准声纹信息；由于该基准声纹信息中的文本信息和语音信息都是基于上述历史语音文件得到的，不是相关系统预设的，即是非公开的，任何用户都无法预知执行身份认证时需要复读的文本信息的具体内容，从而无法提前录制对应的声音文件，也即无法通过播放提前录制的声音文件达到认证成功的目的。基于该声纹信息管理进行身份认证，认证结果更准确，不存在安全隐患，账户的安全性更高。