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(54) Title: A SYSTEM AND METHOD FOR VOTING THROUGH HANDHELD DEVICES

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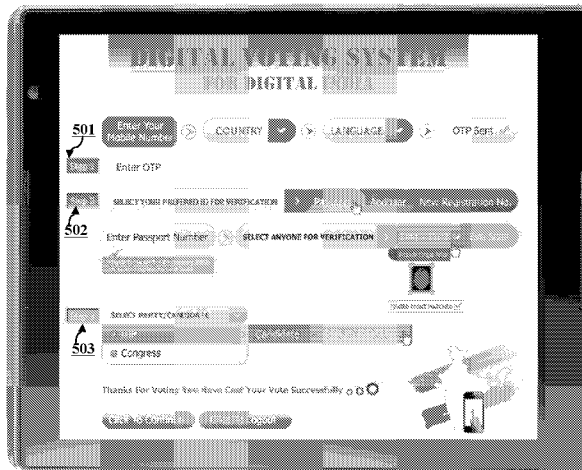


Figure .5

(57) Abstract: The present invention discloses a system and method for voting using a mobile or handheld device with a onetime verification code. The OTP can be entered in the handheld device, and then verifying passport number and/or unique identity number and/or new registration number for biometric verification of the users. After verification, the voting process further proceeds to selection of political party and corresponding member for that particular area. Finally the voter can cast their vote. Using the voting App the political party symbol can be printed as a hard copy along with the mobile number and time vote cast for checking the accuracy. After taking the print out the mobile number can be separated from the political party symbol. The system further includes a click to continue module for another user to cast the vote using his mobile number.

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A SYSTEM AND METHOD FOR VOTING THROUGH HANDHELD DEVICES**FIELD OF INVENTION**

[0001] The embodiment herein generally relates to a voting application through
5 handheld devices. Particularly the invention provides a mobile application to facilitate a
user to cast vote through his handheld device by a fingerprint and/or iris or eye
recognition that is compared with an existing database of that particular user.

BACKGROUND AND PRIOR ART

[0002] Nowadays electing a politician without any spoilt vote is very difficult. Hence
10 in most of the cases instead of an original voting person or voter some others may cast
the vote in the name of the original voting person. This is happening in all countries
due to lesser knowledge of the user and sometimes it happens because of the political
party leader.

[0003] In some cases the people or voter may not go to a polling booth to cast the vote
15 because of longer distance of the polling booth from the user's location. The
government arranges the polling booth, in common specific places where the people
can easily access from their location. But the people who are changed their house from
their old location to new location do not easily access it. So the people who are having
vote in the old residential location need to travel from their new location to old
20 location.

[0004] In election committee's perspective, according to the allotted fund the polling
booths are decided and the volunteers' who are needed for election duties are also
decided for assisting the public in casting the vote. According to the fund and available
volunteers only limited polling booth can be provided for each and every state.

25 [0005] Further people who are working in private sectors have to take a day off for
casting a vote. Some people, instead of taking a day off, they may neglect the election.
Hence the true election is not possible without responsible public.

[0006] In recent years, some applications are developed to facilitate the user to cast vote from their home using communication networks. But still most of the casted votes are spoilt vote due to insufficient security verification and user recognition.

[0007] Therefore, there is a need for a system to cast vote through handheld devices to facilitate the user/ voter. Further there is a need for a system in which the vote has to be casted by the original user of the handheld device through a communication number that is unique to the user. Furthermore there is a need for a system through which the voter / user's unique identity number or passport number has to be verified along with finger print and/or eye scan before casting the vote through the handheld device.

10 **OBJECTS OF THE INVENTION**

[0008] Some of the objects of the present disclosure are described herein below:

[0009] A main object of the present invention is to provide a system for casting vote through handheld devices to facilitate the user/ voter.

[0010] Another object of the present invention is to provide a system for casting vote by the original user of the handheld device through a communication number that is unique to the user.

[0011] Still another object of the present invention is to provide a system for casting the vote by verifying the voter / user's unique identity number and/or passport number along with finger print and/or eye scan, before casting the vote through the handheld device.

[0012] Yet another object of the present invention is to optionally provide a system for casting vote through the handheld device with a new identity number if the user doesn't have other personal identification number and/or passport number to verify.

[0013] Another object of the present invention is to provide a system for casting vote through the handheld device by which unnecessary expenditure can be avoided for polling booth and volunteer arrangement.

[00014] Another object of the present invention is to provide a system for casting vote through the handheld device by which influence of local politicians on public can be substantially reduced while casting vote.

[00015] Another object of the present invention is to provide a system for casting vote through the handheld device by a citizen of the country who has gone on a business trip to a foreign country.

[00016] The other objects and advantages of the present invention will be apparent from the following description when read in conjunction with the accompanying drawings, which are incorporated for illustration of preferred embodiments of the present invention and are not intended to limit the scope thereof.

SUMMARY OF THE INVENTION

[00017] In view of the foregoing, an embodiment herein provides a system and method for voting through handheld device, according to an embodiment. The system for voting through handheld device can include a handheld device, a mobile app, a transceiver or a service provider, a communication network, a firewall, a data server, a voting app and a database.

[00018] According to an embodiment, the system for voting through handheld device includes the mobile app and the voting app. The mobile app can be installed in the handheld device; whereas the voting app may be provided in the server and/ or as an add-on in the mobile app. The mobile app for voting through the handheld device includes but is not limited to an optional new user registration module, a location identification module, a language selection module, and a voting module. The voting app for voting through the handheld device includes but is not limited to one time password (OTP) module, a passport verification module, a biometric scanning and verification module, a unique ID verification module, and other modules.

[00019] According to an embodiment, a method for voting through handheld device, wherein the method comprising the step of optionally allowing new user to register through the mobile app using the user's biometric, allowing the user to enter the communication number, identifying the user's country based on his location and/or

based on his communication number, allowing the user to select a language for further processing, receiving OTP from the data server based on the communication number, waiting for authentication after entry of the OTP in appropriate place, displaying to enter user's unique ID number and/or the passport number, requesting the user to show
5 the eye and/or fingerprint in front of the scanning device for scanning, enabling the voting option to the user after verification and sending the vote to the data server for adding to the vote count.

[00020] According to an embodiment, a method for voting through handheld device further comprising the step of optionally receiving registration of the new user with
10 biometric of the new user and accepting registration after verification, receiving the communication number from the handheld device, receiving and/or selecting the country details of the user, sending OTP to the corresponding communication number, authenticating the communication number after verifying the OTP, verifying the user's unique ID number and/or passport number and/or new registration number with the
15 existing database, enabling the voting option by providing available political parties after verification and adding vote count to the respective political party.

[00021] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following
20 descriptions, while indicating preferred embodiments and numerous specific details thereof, are given by way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications.

25 **BRIEF DESCRIPTION OF DRAWINGS**

[00022] The detailed description is set forth with reference to the accompanying figures. In the figures, the left-most digit(s) of a reference number identifies the figure in which the reference number first appears. The use of the same reference numbers in different figures indicates similar or identical items.

[00023] Fig.1 illustrates an exemplary system network for voting through handheld device, according to an embodiment herein;

[00024] Fig.2 illustrates a schematic diagram of a system app for voting through handheld device, according to an embodiment herein;

5 [00025] Fig.3 illustrates methods involved in a mobile app of the system for voting through handheld device, according to an embodiment herein; and

[00026] Fig.4 illustrates methods involved in a voting app of the data server for voting through handheld device, according to an embodiment herein;

[00027] Fig.5 illustrates desktop interface for voting through handheld device,
10 according to an embodiment herein; and

[00028] Fig.6 illustrates mobile interface for voting through handheld device, according to an embodiment herein.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[00029] The embodiments herein and the various features and advantageous details
15 thereof are explained more fully with reference to the non-limiting embodiments and detailed in the following description. Descriptions of well-known components and processing techniques are omitted so as to not unnecessarily obscure the embodiments herein. The examples used herein are intended merely to facilitate an understanding of ways in which the embodiments herein may be practiced and to further enable those of
20 skill in the art to practice the embodiments herein. Accordingly, the examples should not be construed as limiting the scope of the embodiments herein.

[00030] As mentioned above, there is a need for a system for casting vote through handheld devices to facilitate the user/ voter, using a communication number that is unique to the user. The embodiments herein achieve this by providing a mobile app in
25 the handheld device of the user who has a unique communication number by which the user's identity and one or more biometrics are verified with the existing database. Referring now to the drawings, and more particularly to FIGS. 1 through 6, where similar reference characters denote corresponding features consistently throughout the figures, there are shown preferred embodiments. As used herein, the term "and/or,"

when used in a list of two or more items, means that any one of the listed items can be employed by itself, or any combination of two or more of the listed items can be employed.

[00031] The term communication network includes but not limited to Internet, Bluetooth, Cellular, Wi-Fi Interface and so on. The term handheld device includes but not limited to mobile phone, smartphone, PDA, tablet and so on. The term communication number includes but not limited to mobile number, contact number, Fax number and so on.

[00032] The term unique identification number includes but not limited to Social insurance number in Canada, Social Security number in US, National Registration Identity Card in Singapore, National Identity Card in Sri Lanka, Sector-Specific Personal Identifier in Austria, national insurance number in UK, Aadhar card in India and so on. The term biometric details include but not limited to fingerprint, retinal or Iris scan and so on.

[00033] In some example embodiments, the system for casting vote through handheld devices by biometric verification using a communication number to facilitate the user/voter, wherein the system includes a handheld device that has a mobile app installed on to it. The mobile app can enable in transferring the user details and biometrics for verification. The user's personal details and biometrics can be stored in the database with a unique identification number for each person. After verification, the mobile app can enable the user to cast vote by selecting a specific political party from the available list.

[00034] Fig.1 illustrates an exemplary a system network 100 for voting through a handheld device, according to an embodiment. The system network for voting through handheld device can include a handheld device 102, a mobile app 103, a transceiver or a service provider 104, a communication network 105, a firewall 106, a data server 107, voting app 108 and a database 109.

[00035] According to an embodiment, a user 101 may enter his communication number in the mobile app 103 for casting vote through the handheld device 102. The

communication number can be sent to the data server 107 through the service provider 104 and/or the communication network 105, and the secure firewall 106 can allow the secure data for further processing otherwise the firewall may block the entry. The voting app 108 in the data server 107 may process further user detail communication and verification. The voting app 108 may identify the location of the user based on the communication number. Further, the voting app 108 can verify the user identity and/or biometrics before enabling the user to cast the vote. The database 109 can be utilized for storing the user identity details, passport, and biometric information.

[00036] Fig.2 illustrates a schematic diagram of a system 200 for voting through handheld device, according to an embodiment. The system for voting through handheld device includes the mobile app 103 and the voting app 108. The mobile app 103 can be installed in the handheld device; whereas the voting app 108 may be provided in the server and/or as an add-on to the mobile app. The mobile app 103 for voting through the handheld device can include but is not limited to an optional new user registration module 201, a location identification module 202, a language selection module 203, and a voting module 209. The voting app for voting through the handheld device includes but is not limited to one time password (OTP) module 204, a passport verification module 205, a biometric scanning and verification module 206, an unique ID verification module 207, click to continue module 208 and other modules 210.

[00037] In an embodiment, the new user registration module 201 can be configured for registering new user(s) who do not having any one of the user's unique ID number and/or passport. The registration module can enable the new user to update their personal details and biometric information while registration.

[00038] In an embodiment, the location identification module 202 can be configured for identifying the location of the user based on the location of the handheld device and/or location allocated for the communication number.

[00039] In an embodiment, the language selection module 203 can be configured for allowing the user to select preferred language. Based on the selected language, all

further data and/or communication may be displayed to the user in the selected language.

[00040] In an embodiment, the onetime password (OTP) module 204 can be configured for generating and sending OTP to the user's handheld device as a SMS for the entered communication number. Further, the OTP module 204 can be configured for accepting and uploading the received OTP in appropriate place in the mobile app for communication number verification.

[00041] In an embodiment, the passport verification module 205 can be configured for receiving and verifying the passport biometric details of the user, which can include but not limited to eye and/or fingerprint.

[00042] In an embodiment, the unique ID verification module 207 can be configured for verifying the user's identity and/or biometric details using the unique ID, wherein the unique ID includes but not limited to new registration number and/or unique identification number.

[00043] In an embodiment, the biometric scanning and verification module 206 can be configured for scanning the biometric information of the user at the time of voting and verifying the received biometric information with the available biometric information from the passport and/or unique identification number and/or new registration number of the user.

[00044] In an embodiment, the click to continue module 208 can be configured for providing option for another user to cast vote using his mobile number or the device mobile number with the identity of another user.

[00045] In an embodiment, the voting module 209 can be configured for selecting and displaying the political party from the available list for casting the vote. The voting module can be configured to enable the voting option for the user through the voting app.

[00046] Exemplary methods for implementing system of voting through handheld device are described with reference to Fig 3 and Fig. 4. The methods are illustrated as a collection of operations in a logical flow graph representing a sequence of operations

that can be implemented in hardware, software, firmware, or a combination thereof. The order in which the methods are described is not intended to be construed as a limitation, and any number of the described method blocks can be combined in any order to implement the methods, or alternate methods. Additionally, individual operations may be deleted from the methods without departing from the spirit and scope of the subject matter described herein. In the context of software, the operations represent computer instructions that, when executed by one or more processors, perform the recited operations.

[00047] Fig.4 illustrates method involved in a mobile app of the system 400 for voting through handheld device, according to an embodiment. The methods involved in a mobile app 103 of the system for voting through handheld device comprising the step of optionally registering new user through the mobile app along with the user's biometric 301, allowing to enter the communication number 302, identifying the country details of the user based on location and/or based on communication number 303, allowing to select a language for further processing 304, receiving OTP from the data server and allowing to enter the receiving OTP 305, waiting for authentication after the entry of the OTP in appropriate place 306, allowing the user to enter user's unique ID number and/or the passport number and/or the new registration number 307, requesting the user to show the eye and/or fingerprint in front of the camera and/or scanning device for scanning and verifying the user details and/or scanned biometric details with the existing biometric details of the users 308, enabling the voting option to the user after verification 309 and sending the vote to the data server for adding to the vote count 310.

[00048] At block 301, in case the passport number and/or unique identity number is not available with the user then the user may register as a new user through the mobile app along with the user's biometric. At block 302, the user may enter his communication number through the handheld device. At block 303, the mobile app may display the country list and the user may select his country. Further, mobile app may display and select the country name based on the entered communication number and/or his

location. At block 304, the user may select the language of his preference 403, and based on selection all the data and/or communication is updated to the users in the selected language. At block 305, a onetime password [OTP] may be received by the handheld device in the form of SMS and the user may enter the onetime password in the appropriate place for authentication. At block 306, the mobile app may wait for authentication and receive the authentication confirmation from the voting app. At block 307, the user may enter his unique ID number and/or passport number and/or new registration number. At block 308, the mobile app may request the user to show the eye and/or fingerprint in front of the camera and/or scanning device for scanning.

10 The scanned biometric details would be verified with the existing biometric details obtained from the unique ID number and/or passport number and/or new registration number. At block 309, after confirmation of verification, the mobile app may enable the voting option to the user after verification. At block 310, the mobile app may send the vote to the data server for adding to the vote count of particular political party.

15 **[00049]** Fig.4 illustrates methods 400 involved in a voting app of the data server for voting through handheld device, according to an embodiment. Accordingly, the method comprising the step of storing the user's biometric details as an optional feature in the database for the new registration of the user 401, receiving the communication number from the mobile app 402, identifying the country details of the user based on the location of the user and/or based on the communication number 403, sending OTP to the corresponding mobile number in the form SMS 404, authenticating the communication number after the retrieval of the OTP 405, verifying user's unique id number and/or passport number and/or new registration number with the existing database 406, verifying the user's existing biometric with the obtained biometric of the user 407, enabling the voting option by providing available political parties after verification 408 and adding vote count to the respective political party 409.

25 **[00050]** At block 401, in case the passport number and/or unique identity number is not available with the user, then the system app may store the user's biometric details for the new registration number of the user. At block 402, the voting app may receive the

communication number from the user. At block 403, the voting app may identify the country details of the user based on the location of the user and/or based on the communication number. At block 404, the voting app may send a onetime password to the corresponding mobile number to verify the communication number. At block 405, the voting app may authenticate the communication number for enabling to vote after the retrieval of the OTP. At block 406, the voting app may verify user's unique ID number and/or passport number and/or new registration number with the existing database 505. At block 407, the voting app may verify the user's existing biometric with the obtained biometric of the user. At block 408, the voting app may enable the voting option by providing available political party after verification. At block 409, when the user cast the vote, the voting app may accept and add vote count to the respective political party. At block 410, the voting App enables the "Click to continue" option for another user to cast vote using same mobile number with different identity.

[00051] Fig.5 illustrates desktop interface 500 for voting through handheld device, according to an embodiment. The desktop interface for voting through handheld device includes drag & drop options for selecting country and language. According to the language that is selected by the user the further instructions can be provided in that language. For further processing, the system requests the user to enter the mobile number. After entering the mobile number the user can receive one time password (OTP) for getting authentication to cast a vote.

[00052] According to an embodiment, the desktop interface provides three steps for casting the vote. In the step1 501, the user has to enter the OTP provided by the voting app for that specific mobile number. In step2 502, the user has to select the preferred ID for verification either it can be passport or Aadhaar card or new registration number. According to the selected country the ID verification may vary. Further, in step2 502 the user has to select anyone of the biometric such as either finger print or eye (Iris) scan for verification. After completion of verification in step2, the interface enables the step3 503. In step3 503, the user can select the political party or candidate for casting the vote. After casting the vote the user can logout from the mobile app

[00053] Fig.6 illustrates mobile interface 600 for voting through handheld device, according to an embodiment. The mobile interface for voting through handheld device includes drag & drop options for selecting country 601 and language 602. In the mobile interface, the user has to enter mobile number 601 for casting the vote. After entering
5 the mobile number 601, the user can select the country and select the preferred language 602. Then immediately OTP may be sent to the mobile number and shows a message that OTP has been sent to the mobile number. The received OTP has to be entered 603 by the user in the mobile interface.

[00054] According to an embodiment, the user can get authentication for entering a
10 firewall protected secured government server. As the voter selects the country two options for verifying passport number and unique ID may be available. Hence, passport is common for all countries and unique ID is different for different countries. For example in India the unique ID is named as Aadhaar card. For Government Elections the voter has to select any one option from two available options. A third option is
15 provided in the interface that is “new registration number” 611. This new registration number may not be available for government elections. Further, the third option is only for elections other than government elections. For example, in Corporate Elections everything remains the same but the only change is there may be only one option “new registration number“.

[00055] According to an embodiment, as the voter/ user enter the passport/unique ID
20 number, date of birth (DOB) can be picked from the passport/ unique ID and age can be calculated to check the eligibility for casting the vote. If the user is eligible, a message may appear stating that “Eligibility: As on 1st Of January 2016 18 years eligible to cast vote” 605. If the voter is eligible to cast vote then the voter has to select either finger
25 print 607 or eye scan 608 for verification. Further, the finger print provided should match with data available with government. The data is obtained while issuing Passport and unique ID. For Corporate Elections, the biometrics can be obtained at the time of registration. Further the finger print that is provided should match the data available with the company. Once the finger print matches a message may appear stating that

“Finger print matched”. Only if the finger print matches the voter will be allowed to move to step3.

[00056] According to an embodiment, for example in a scenario, if the finger print matches with other ID number (one person having multiple/Duplicate ID) vote may be accepted for the ID number entered but other ID numbers would be blocked / disabled. The ID details would be double checked and necessary action might be taken in future. In another scenario, the possibility of voting twice by the voter can be restricted 606. Hence the voter cannot vote twice using the passport 605 and the unique ID. If the voter is using unique ID number to cast the vote then at the time of biometrics verification 609, if the biometrics matches with passport number then the voting app would pull that passport number and vice-versa 610. Finally, it would be marked as voted for the particular voter.

[00057] According to embodiment, when the voter selects the country, then in step3 respective countries political party/ candidate details would be available. The voter has to select the party and then candidate and just one click to cast a vote 613. After casting vote a message will appear stating that “Thanks for voting you have cast your vote successfully”. After voting successfully on both passport and unique ID it can be marked as “VOTED”, so that if the voter tries to cast vote using either passport or unique ID for the second time, when the voter enters either passport or unique ID number, if the voter has already cast vote a message would appear stating that “Already voted”.

[00058] According to an embodiment, after casting the vote there is an option available with for continuing the voting process for others. But limit may be set for casting the vote using same mobile number. The advantage of providing “click to continue” 613 option can help the family members of the voter who don’t have a smart phone.

[00059] According to an embodiment, when the voter selects the country the voting app can change the voting app instruction language to major language of that country. Further, the voting app displays the respective country code by default. The voter has to just enter the mobile number. In step2 passport may be common and unique ID can be

the second option instead of Aadhaar card. In step3, If in case the selected country is a foreign country, respective countries political party/candidate details would be available.

[00060] According to an embodiment, the mobile app for casting vote through handheld device can facilitate the user to cast vote even if the user unable to come directly to the polling booth. The mobile app may also facilitate the user to cast vote through a computing terminal for those who cannot access the mobile app through handheld device. Further the user who may not have the handheld device inbuilt with scanner or camera then that user can aid the nearby polling booth, which may have scanner facility.

[00061] In an exemplary embodiment, for better understanding the below description should be read parallel with desktop interface illustrated in figure 5.

[00062] Flow of functions

Enter your mobile number (1)

15 Select the country (2)

Select the language (3)

OTP sent (4)

OR

Select the country (1)

20 Select the language (2)

Enter your mobile number (3)

OTP sent (sms) (4)

[00063] Voter has to select the country.

- As the voter selects the country, major language of that country would be available.
- Voter has to select the language. As the voter selects the country, country code would be available. The voter has to just enter the mobile number.
- Passport would be common for all countries and instead of Aadhaar respective countries id would be the second option.

- When the voter selects the country, in step 3 (ref desktop interface figure 5) respective countries party/candidate details would be available.

[00064] Voter has to select the language.

- Following instructions would be in the selected language.

5 [00065] Voter has to enter the mobile number

- As the voter enters the mobile number OTP would be sent to that mobile number as SMS

[00066] Step 1 Enter OTP

- As the voter enters the OTP a message would appear stating OTP “accepted”

10 [00067] Step 2 (ref desktop interface figure 5)

- For **government elections** the voter has to select any one option from two (Passport/Aadhaar) available options.

- Third option “**new registration number**” will not be available for government elections. Third option is for elections other than government elections or **private elections**.

15

- For corporate elections everything remains the same. The only change is there will be only one option “**new registration number**”.

- For corporate elections – biometrics will be obtained at the time of registration. Finger print provided should match with data available with the company.

20 [00068] Enter passport number

- As the voter enters the passport/id number, DOB will be picked from the Passport/UID and age will be calculated to check the eligibility to cast vote. if the voter is eligible a message will appear stating “Eligibility: as on 1st of January 2016 18 years eligible to cast vote”

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- As the voter enters the passport number if he has already voted then a message would appear stating “**already voted**”

- If the voter is eligible to cast vote then the voter has to select either finger print or eye scan for verification.

[00069] Select either finger print or eye scan for verification.

- Finger print provided should match with data available with government. data obtained while issuing passport and UID
- Once the finger print matches a message will appear stating “finger print matched”
- 5 ➤ Only if the finger print matches the voter will be allowed to move to step 3 (ref desktop interface figure 5).
- Even on biometrics it would be marked as voted after successful voting. if the voter tries to vote for the second time at the time of providing biometrics a message would appear stating “**already voted**”

10 **Scenario 1:** If the finger print matches with other id number (one person having multiple/duplicate id) vote will be accepted for the id number entered but other id numbers would be blocked/disabled. The UID details would be double checked and necessary action would be taken in future.

15 **Scenario 2:** Will the voter be able to vote twice using Passport and UID.If the voter is using UID number to cast vote then at the time of biometrics verification if the biometrics matches with passport number then the voting app would pull that passport number and on both it would be marked as “**Voted**”

[00070] In step 3 (ref desktop interface figure 5)

Select the party

- 20 ➤ The voter has to select the party and then candidate and just one click to cast vote.
- After casting vote a message will appear stating “thanks for voting you have cast your vote successfully”

25 [00071] **Click to continue** this option redirects the voter to step 2 (ref desktop interface figure 5)

- Limit will be set to cast vote with the same mobile number.
- Advantage of click to continue: this will help family members who don't have a smart phone.

[00072] After successful voting:

- On biometrics it will be marked as voted.
- On passport and UID it will be marked as voted.

After voting successfully on both passport and UID it will be marked as “**voted**” so that if the voter tries to cast vote using either passport or UID for the second time, when the voter enters either passport or UID number if the voter has already cast vote a message would appear stating “**already voted**”.

[00073] For better accuracy, towards every mobile number party symbol would be printed which can be separated. So that no one knows who voted to whom. Mobile number along with party symbol and time of vote cast would be printable. For accuracy hard copy (printed copy) should match with vote count in the data server.

[00074] The foregoing description of the specific embodiments will so fully reveal the general nature of the embodiments herein that others can, by applying current knowledge, readily modify and/or adapt for various applications such specific embodiments without departing from the generic concept, and, therefore, such adaptations and modifications should and are intended to be comprehended within the meaning and range of equivalents of the disclosed embodiments. It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. Therefore, while the embodiments herein have been described in terms of preferred embodiments, those skilled in the art will recognize that the embodiments herein can be practiced with modification within the spirit and scope of the embodiments as described herein.

I Claim:

1. The system for voting through handheld device comprises:

a handheld device, a mobile app, a transceiver or a service provider, a communication network, a firewall, a data server, a voting app and database;

wherein the mobile app includes modules that comprises an optional new user registration module, a location identification module, a language selection module, and a voting module;

wherein the voting app includes onetime password (OTP) module, a passport verification module, a biometric scanning and verification module, and an unique ID verification module.

wherein said voting app is provided in the data server and / or as an add-on in the mobile app.

2. The system of claim 1, wherein system further includes a click to continue module configured for providing option for another user to cast vote using his mobile number with the identity of another user.

3. The system of claim 1, wherein said location identification module configured for identifying the location of a user based on the location of the handheld device and/or location or country allocated for the mobile number.

4. The system of claim 1, wherein said language selection module configured for allowing the user to select preferred language and changing the further instructions according to the selected language.

5. The system of claim 1, wherein said one time password (OTP) module configured for generating and sending OTP to the user's handheld device as a SMS for the entered communication number; wherein the OTP module further configured for accepting and

uploading the received OTP in appropriate place in the mobile app for mobile number verification.

6. The system of claim 1, wherein said passport verification module configured for receiving and verifying the passport details of the user that includes biometric, date of birth, country and so on.
7. The system of claim 1, wherein said unique ID verification module configured for verifying the user's identity and/or biometric details using the unique ID.
8. The system of claim 1, wherein said biometric scanning and verification module configured for scanning the biometric information of the user at the time of voting and verifying the received biometric information with the available biometric information from the passport and/or unique ID and/or new registration number of the user.
9. The system of claim 1, wherein said optional new user registration module configured for registering new user(s) who do not having any one of the user unique ID number and/or passport; wherein the registration module further configured for enabling the new user to update their personal details and biometric information while registration.
10. The system of claim 1, wherein said voting module configured for selecting and displaying the political party from the available list for casting the vote; wherein the voting module further configured for enabling the voting option for the user through the voting app.
11. The system of claim 1, wherein political party symbol printed along with the mobile number and the time of vote cast for verification; wherein the political party symbol separated from the mobile number after taking the print.
12. A method for voting through handheld device comprising the step of,

- registering new user through the mobile app along with a user's biometric;
allowing to enter the communication number;
identifying the country details of the user based on location and/or based on
communication number;
- 5 allowing to select a language for further processing;
receiving OTP from the data server and allowing the user to enter the received
OTP;
waiting for authentication after the entry of the OTP in appropriate place;
allowing the user to enter unique ID number and/or the passport number and/or
10 the new registration number;
requesting the user to show the eye and/or fingerprint in front of the camera
and/or scanning device for scanning and verifying the user's biometric details
and/or scanned biometric details with the existing biometric details of the users;
enabling the voting option to the user after verification;
- 15 sending the vote to the data server for adding to the vote count; and
enabling "Click to continue" option for another user to cast vote using same
mobile number with different identity.
13. The method of claim 11, wherein the method for voting through handheld
device further comprising the step of,
- 20 storing the user's biometric details as an optional feature in the database for the
new registration of the user;
receiving the communication or mobile number from the mobile app;
identifying the country details of the user based on the location of the user and/or
based on the communication number;
- 25 sending OTP to the corresponding mobile number in the form SMS;
authenticating the communication number after the retrieval of the OTP;

verifying user's unique ID number and/or passport number and/or new registration number with the existing database;

verifying the user's biometric with the obtained biometric of the user;

enabling the voting option by providing available political parties after

5 verification; and

adding vote count to the respective political party; and

enabling "Click to continue" option for another user to cast vote using same mobile number with different identity.

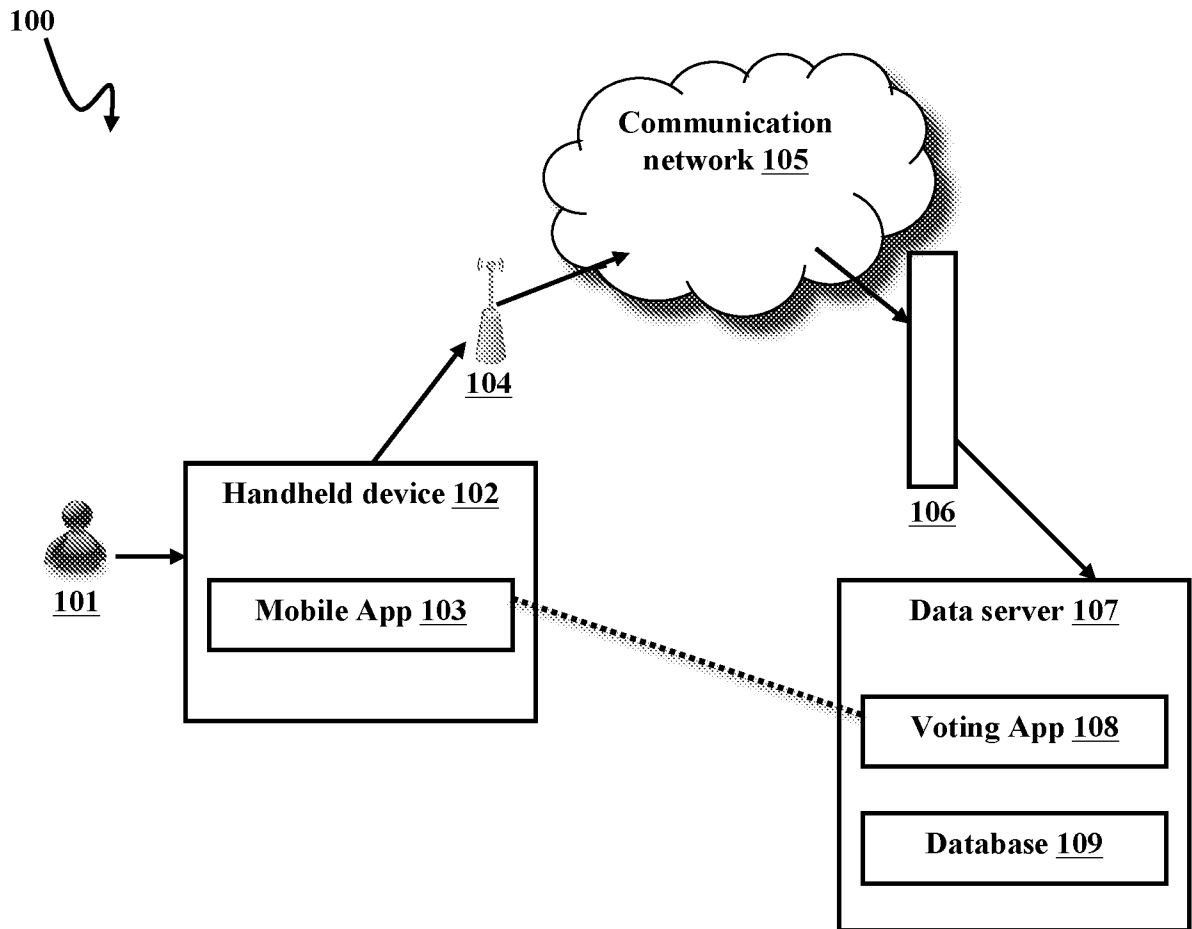


Figure .1

200
↘

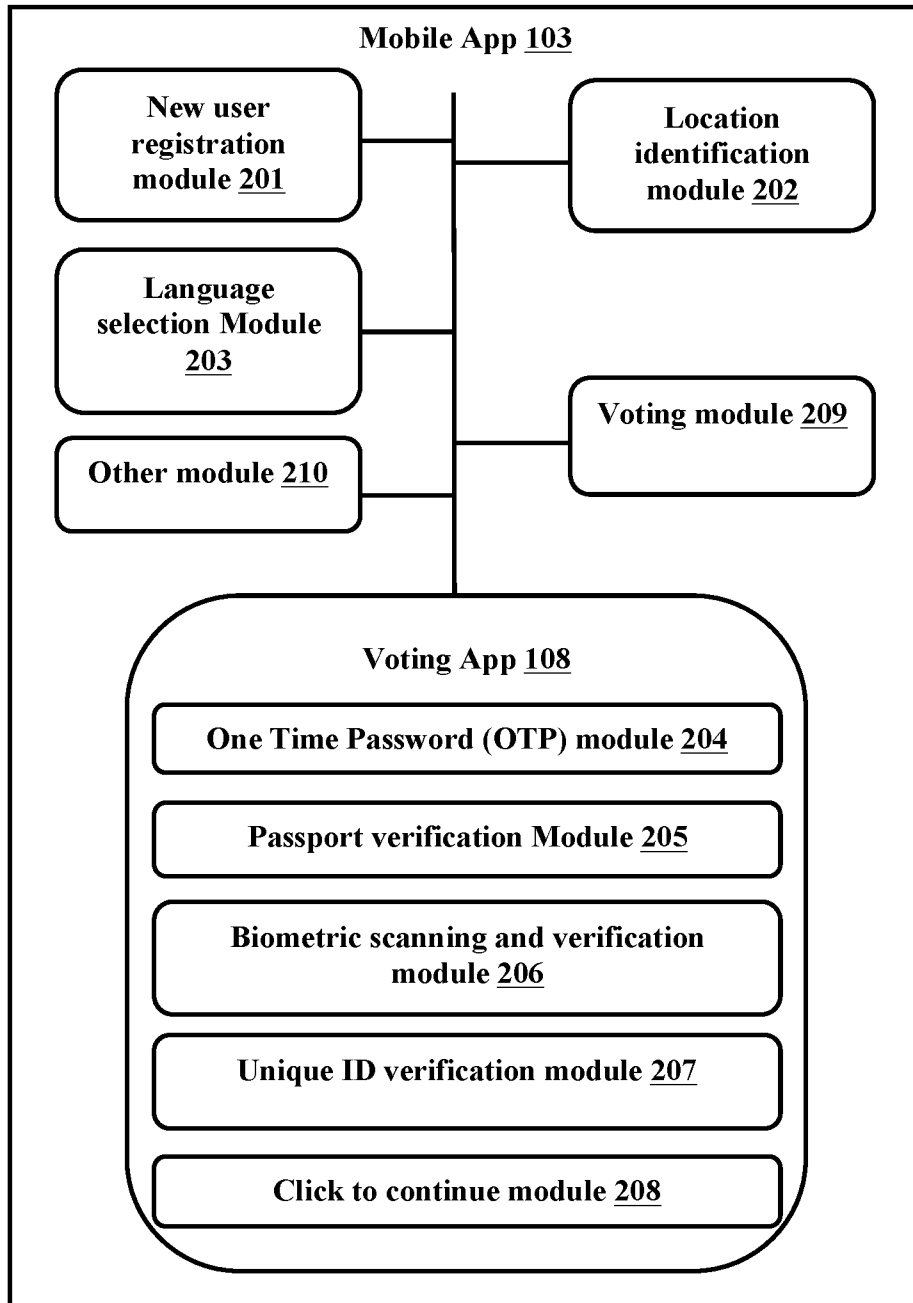


Figure .2

300 ↘

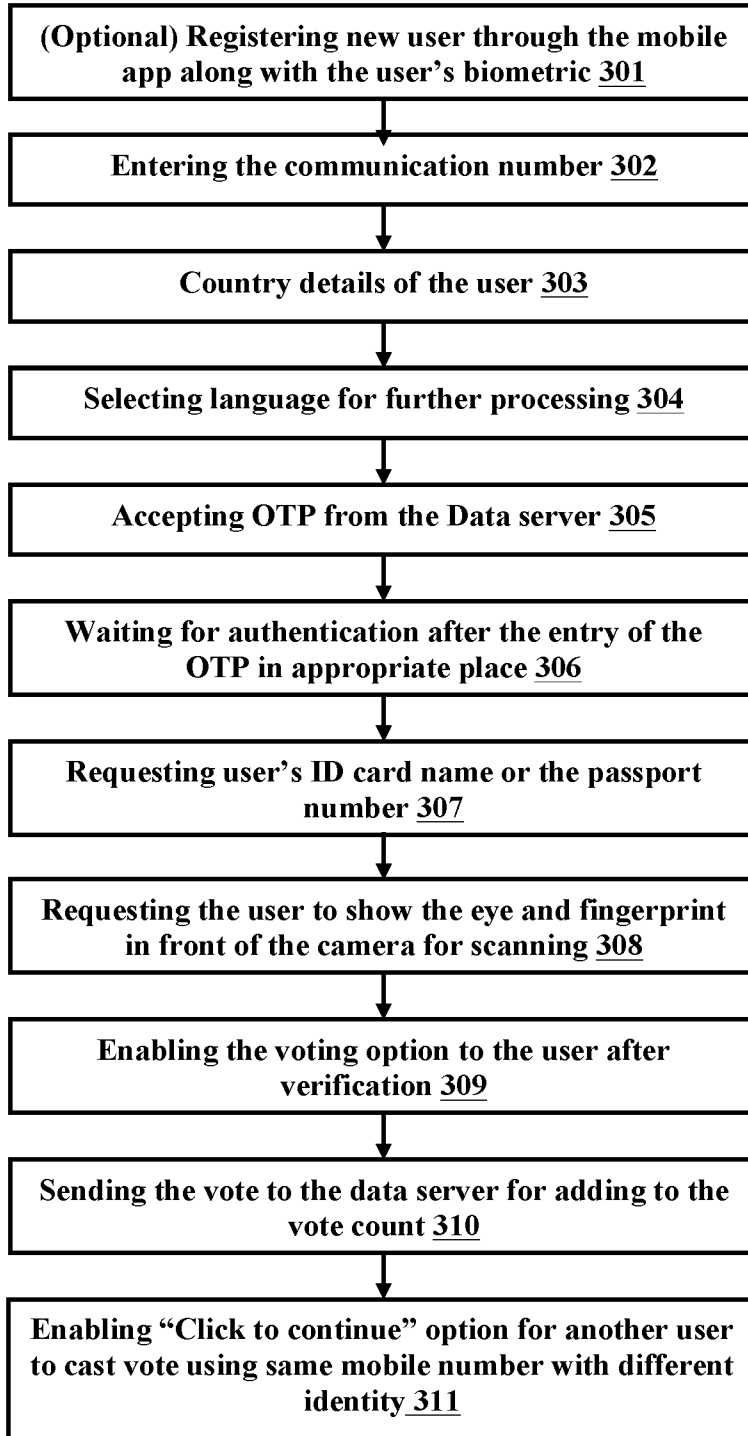


Figure .3

400 ↘

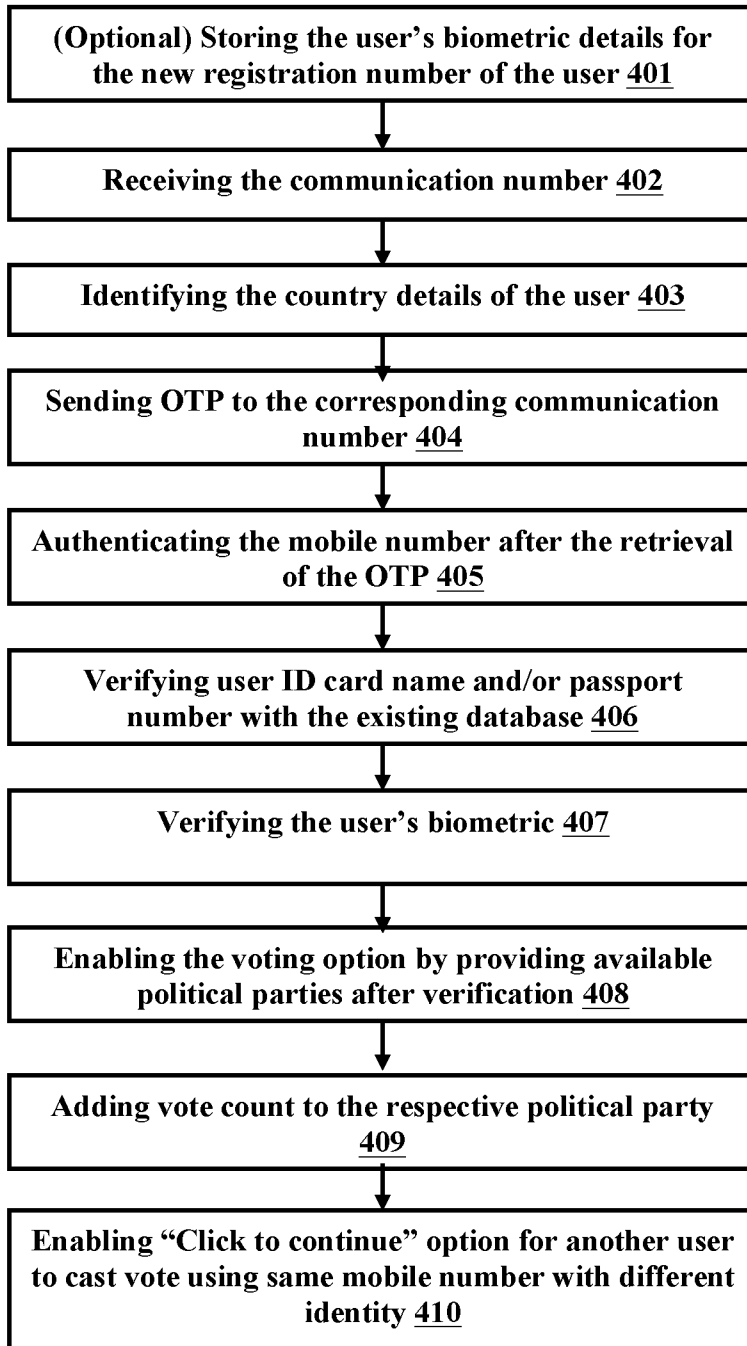


Figure .4

500 ↘

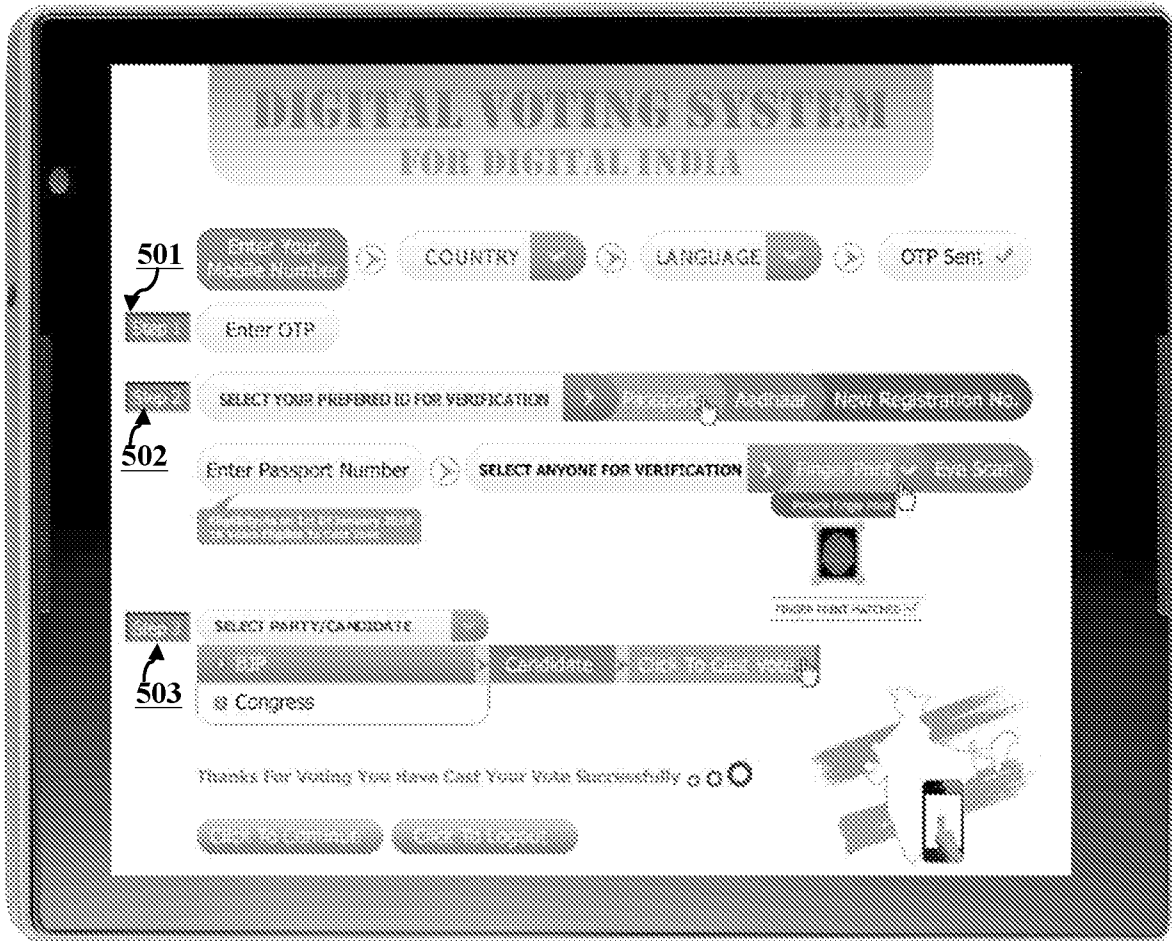
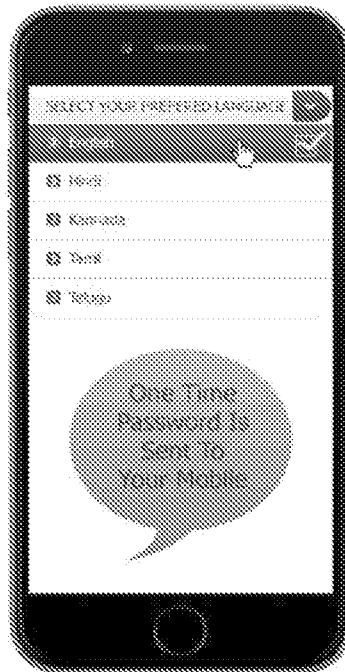


Figure .5

600



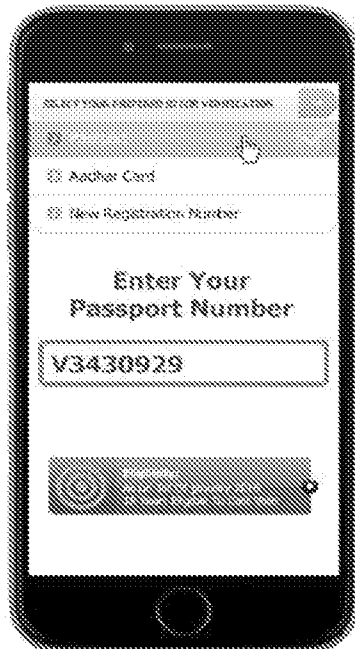
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602



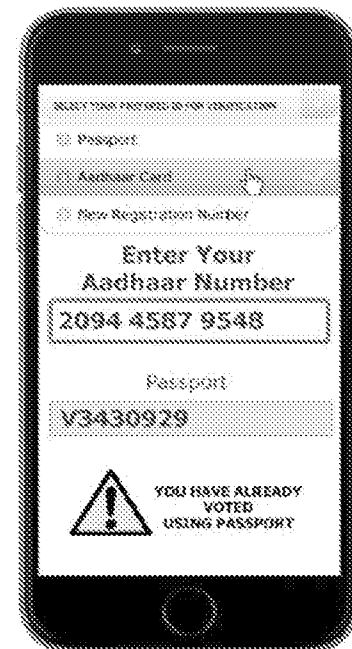
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Figure .6

600 ↘



Figure .6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2016/056205

A. CLASSIFICATION OF SUBJECT MATTER
G07C13/00,G06Q10/00,G06F17/00 Version=2017.01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G07C, G06Q, G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Databases: Patseer, IPO Internal

Search terms: voting, authentication code, election, biometric

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2015/0221153 A1 (ICITIZEN CORPORATION) 6 August 2015 (06-08-2015) See Abstract, paragraphs [0004], [0005],[0012], [0016], [0023]-[0025], [0027], [0048], [0049], [0056], [0057], [0059], [0061]; figs.1, 3, 4	1-13

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

10-01-2017

Date of mailing of the international search report

10-01-2017

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IB2016/056205

Citation	Pub.Date	Family	Pub.Date
US 2015/0221153 A1	06-08-2015	WO 2015120307 A1	13-08-2015