

U.S. Patent No. 10,22,3692 Claims

1. A method for setting a temporary payment card, comprising:
  - displaying a list of mobile payment cards at a first portion of a touch screen interface;
  - receiving, through the touch screen interface, a user input selecting a mobile payment card from the list of mobile payment card;
  - detecting the user input sliding the mobile payment card from the first portion of the touch screen interface to a second portion of the touch screen interface;
  - based upon the user input sliding the mobile payment card, setting, as a temporary card, the mobile payment card, wherein while the mobile payment card is set as the temporary card, payments will be made by the mobile payment card;
  - displaying a numerical indicator of a payable time, wherein the numerical indicator initially indicates a first remaining time amount;
  - simultaneously:
    - moving the mobile payment card a first distance from the first portion of the screen towards a second portion of the touch screen, and
    - decrementing the numerical indicator a first difference to display a remaining payable time,
  - wherein:
    - the first distance is proportional to an amount of payable time that has passed, and
    - the first difference is proportional to the amount of payable time that has passed: and
  - resetting the setting of the temporary payment card when the payable time passes such that the mobile payment card is no longer set as the temporary card and payments are made through a main card.
2. The method of claim 1, further comprising:
  - receiving, through the touch screen interface, a user input selecting the mobile payment card;
  - detecting the user input sliding the mobile payment card from the second portion of the touch screen interface to an original position within the first portion of touch screen interface;
  - based upon the mobile payment card being moved to the original position by the user, resetting the setting of the temporary payment card.
3. The method of claim 1, further comprising, when a payment is made within the payable time, resetting the setting of the temporary payment card.
4. The method of claim 1, further comprising:
  - determining that the payable time has passed;

based upon the determination that the payable time has passed, displaying the mobile payment card being moved to an original position.

5. The method of claim 1, further comprising, when the mobile payment card set as the temporary payment card is moved again by the user prior to the payable time passing, extending the payable time.

6. The method of claim 5, wherein the movement by the user in the setting operation is performed in the same method as the movement by the user in the extending operation.

7. The method of claim 1, further comprising, when the mobile device is moved by the user in a specific pattern prior to the payable time passing, extending the payable time.

8. The method of claim 1, further comprising, when the payable time passes, making the mobile payment card moved by the user disappear.

9. The method of claim 1, further comprising making the mobile payment card moved by the user gradually disappear according to a remaining payable time.

10. The method of claim 1, further comprising, when the remaining payable time is shorter than or equal to a threshold, outputting an alarm.

11. The method of claim 1, further comprising:  
displaying a list of additional services issued to the mobile devices; and  
setting an additional service moved by the user from among the additional services listed in the list to be used.

12. The method of claim 11, further comprising, when a usable time passes, setting the additional service to be disabled.

13. A mobile device comprising:  
a touch screen configured to display a list of mobile payment cards; and a processor configured to:

displaying a list of mobile payment cards at a first portion of a touch screen interface;

receive, through the touch screen interface, a user input selecting a mobile payment card from the list of mobile payment card;

detect the user input sliding the mobile payment card from the first portion of the touch screen interface to a second portion of the touch screen interface;

based upon the user input sliding the mobile payment card, set as temporary card, the mobile payment card, wherein while the mobile payment card is set as the temporary card, payments will be made by the mobile payment card;

displaying a numerical indicator of a payable time, wherein the numerical indicator initially indicates a first remaining time amount;

simultaneously:

moving the mobile payment card a first distance from the first portion of the screen towards a second portion of the touch screen, and

decrementing the numerical indicator a first difference to display a remaining payable time,  
wherein:  
the first distance is proportional to an amount of payable time that has passed,  
and  
the first difference is proportional to the amount of payable time that has passed: and  
reset the setting of the temporary payment card when the payable time passes.