


INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2012/010324

<p>A. CLASSIFICATION OF SUBJECT MATTER <i>G06Q 20/40(2012.01)i, G06Q 20/16(2012.01)i</i> According to International Patent Classification (IPC) or to both national classification and IPC</p>																							
<p>B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G06Q 20/40; H04B 1/40; H04W 12/06</p>																							
<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models: IPC as above Japanese Utility models and applications for Utility models: IPC as above</p>																							
<p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal) & Keywords: mobile, deal, payment, e-wallet, application, authentication, third party, certification server, PIN, token, matching, payment server</p>																							
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>KR 10-2011-0114872 A (DANAL CO.,LTD.) 20 October 2011</td> <td>1,2,9-11</td> </tr> <tr> <td>Y</td> <td>See abstract, paragraphs [0030],[0038],[0042],[0043], claim 9 and figures 3,4.</td> <td>3-8</td> </tr> <tr> <td>Y</td> <td>KR 10-2007-0047264 A (ICASH CO., LTD.) 04 May 2007 See abstract, page 6, claim 3 and figure 3.</td> <td>3</td> </tr> <tr> <td>Y</td> <td>KR 10-2011-0019678 A (VP INC.) 28 February 2011 See abstract, paragraphs [0017],[0033],[0034] and claims 1-3.</td> <td>4-8</td> </tr> <tr> <td>A</td> <td>KR 10-2011-0065814 A (SK PLANET CO., LTD.) 16 June 2011 See abstract, paragraphs [0036],[0037],[0038],[0039], claim 10 and figure 3.</td> <td>1-11</td> </tr> <tr> <td>A</td> <td>KR 10-2010-0106256 A (BIZMODELIN CO., LTD.) 01 October 2010 See abstract, paragraphs [0148],[0149],[0150],[0151], claim 1 and figure 8.</td> <td>1-11</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	KR 10-2011-0114872 A (DANAL CO.,LTD.) 20 October 2011	1,2,9-11	Y	See abstract, paragraphs [0030],[0038],[0042],[0043], claim 9 and figures 3,4.	3-8	Y	KR 10-2007-0047264 A (ICASH CO., LTD.) 04 May 2007 See abstract, page 6, claim 3 and figure 3.	3	Y	KR 10-2011-0019678 A (VP INC.) 28 February 2011 See abstract, paragraphs [0017],[0033],[0034] and claims 1-3.	4-8	A	KR 10-2011-0065814 A (SK PLANET CO., LTD.) 16 June 2011 See abstract, paragraphs [0036],[0037],[0038],[0039], claim 10 and figure 3.	1-11	A	KR 10-2010-0106256 A (BIZMODELIN CO., LTD.) 01 October 2010 See abstract, paragraphs [0148],[0149],[0150],[0151], claim 1 and figure 8.	1-11
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<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>“A” document defining the general state of the art which is not considered to be of particular relevance</td> <td>“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</td> </tr> <tr> <td>“E” earlier application or patent but published on or after the international filing date</td> <td>“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</td> </tr> <tr> <td>“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)</td> <td>“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</td> </tr> <tr> <td>“O” document referring to an oral disclosure, use, exhibition or other means</td> <td>“G” document member of the same patent family</td> </tr> <tr> <td>“P” document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			“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	“G” document member of the same patent family	“P” document published prior to the international filing date but later than the priority date claimed												
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<p>Date of the actual completion of the international search 26 FEBRUARY 2013 (26.02.2013)</p>		<p>Date of mailing of the international search report 27 FEBRUARY 2013 (27.02.2013)</p>																					
<p>Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140</p>		<p>Authorized officer Telephone No.</p>																					

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2011-0114872 A	20.10.2011	NONE	
KR 10-2007-0047264 A	04.05.2007	NONE	
KR 10-2011-0019678 A	28.02.2011	KR 10-1069744 B1	04.10.2011
KR 10-2011-0065814 A	16.06.2011	NONE	
KR 10-2010-0106256 A	01.10.2010	NONE	

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference OHP0034PCT		Date of mailing (day/month/year) 27.02.2013
International application No. PCT/KR2012/010324		FOR FURTHER ACTION See paragraph 2 below
International filing date (day/month/year) 30.11.2012	Priority date (day/month/year) 01.12.2011	
International Patent Classification (IPC) or both national classification and IPC G06Q 20/40 (2012.01) i, G06Q 20/16 (2012.01) i		
Applicant SK C&C CO., LTD.		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

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Box No. I	Basis of this opinion
1.	<p>With regard to the language, this opinion has been established on the basis of:</p> <p><input checked="" type="checkbox"/> the international application in the language in which it was filed</p> <p><input type="checkbox"/> a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).</p> <p>2. <input type="checkbox"/> This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43<i>bis</i>.1(a))</p> <p>3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:</p> <p>a. (means)</p> <p><input type="checkbox"/> on paper</p> <p><input type="checkbox"/> in electronic form</p> <p>b. (time)</p> <p><input type="checkbox"/> in the international application as filed</p> <p><input type="checkbox"/> together with the international application in electronic form</p> <p><input type="checkbox"/> subsequently to this Authority for the purposes of search</p> <p>4. <input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p> <p>5. Additional comments:</p>

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement	Novelty (N)	Claims <u>3-8, 11</u>	YES
		Claims <u>1, 2, 9, 10</u>	NO
	Inventive step (IS)	Claims <u>None</u>	YES
		Claims <u>1-11</u>	NO
	Industrial applicability (IA)	Claims <u>1-11</u>	YES
		Claims <u>None</u>	NO
2. Citations and explanations:			
<p>Reference is made to the following documents:</p> <p>D1: KR 10-2011-0114872 A (DANAL CO., LTD.) 20 October 2011</p> <p>D2: KR 10-2007-0047264 A (ICASH CO., LTD.) 04 May 2007</p> <p>D3: KR 10-2011-0019678 A (VP INC.) 28 February 2011</p> <p>1. Novelty and Inventive Step</p> <p>1.1. Claim 1</p> <p>Claim 1 pertains to a mobile transaction method for enabling a third party server instead of a seller and a buyer to receive an authentication request related to a mobile transaction, and to transmit an authenticated result by authenticating whether a buyer side of the mobile transaction is valid. Document D1 discloses: an integrated authentication system for enabling an integrated authentication server to generate an authentication value by comparing a received virtual account in response to an authentication request, with a</p>			

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

virtual account which is stored therein and is mapped to a user, and to transfer the authentication value generated according to the compared result; and a method therefor. Since document D1 discloses all the technical features of claim 1, claim 1 can be anticipated by document D1. Thus, the invention as set forth in claim 1 lacks novelty (PCT Article 33(2)).

Claim 2 is dependent on claim 1 and pertains to a mobile transaction method for receiving an authentication request from a payment server for performing price settlement of a mobile transaction, implementing an authentication in a payment process of the mobile transaction, and transmitting the authenticated result to the payment server. Document D1 discloses: an integrated authentication system for enabling the integrated authentication server to receive a user identification request for identifying a user from the payment server when the user uses an online payment through a purchase of products on an online site, to authenticate the user, and to transfer the authenticated value to the payment server; and a method therefor. Since document D1 discloses all the technical features of claim 2, claim 2 can be anticipated by document D1. Thus, the invention as set forth in claim 2 lacks novelty (PCT Article 33(2)).

Claim 3 is dependent on claim 1 and pertains to a mobile transaction method for receiving a PIN inputted through a mobile terminal, and authenticating validity of a buyer on the basis of whether a PIN inputted through the buyer is matched with a PIN registered in the mobile terminal. Document D1 discloses: the integrated authentication

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	<p>system for enabling the integrated authentication server to generate the authentication value by comparing the received virtual account in response to the authentication request, with the virtual account which is stored therein and is mapped to the user, and to transfer the authentication value generated according to the compared result: and the method therefor. Document D1 does not disclose the feature of determining whether the PIN of the buyer is matched with the registered PIN, but document D2 discloses a method for enabling a portable telephone for a mobile commercial transaction to authenticate a password of a client and to transfer the authenticated result, which receives a PIN of the client through a portable telephone user application program, and compares the received PIN with a PIN pre-issued and pre-stored from a credit card issuer, so as to authenticate the client. In addition, since it would be obvious to a person skilled in the art to combine the invention disclosed in document D1 with the feature disclosed in document D2, the invention as set forth in claim 3 lacks an inventive step on the basis of the combination of documents D1 and D2 (PCT Article 33(3)).</p> <p>Claim 4 is dependent on claim 1 and pertains to a mobile transaction method for receiving an authentication request for an application provided in a mobile terminal of a buyer, and transmitting an authenticated result by implementing an authentication before starting a mobile transaction. Document D1 discloses: an integrated authentication system for enabling the integrated authentication server to generate the authentication value by comparing the received virtual account in</p>

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response to the authentication request, with the virtual account which is stored therein and is mapped to the user, and to transfer the authentication value generated according to the compared result; and a method therefor. Document D1 does not disclose the feature of receiving the authentication request for the application and transmitting the authenticated result, but document D3 discloses a method for managing applications of a mobile terminal which enables an application management server to receive information related to a specific application for an execution of the specific application, to transmit an authenticated result for the specific application by implementing an authentication procedure for the specific application. In addition, since it would be obvious to a person skilled in the art to combine the invention disclosed in document D1 with the feature disclosed in document D3, the invention as set forth in claim 4 lacks an inventive step on the basis of the combination of documents D1 and D3 (PCT Article 33(3)).

Claims 5 and 6 are dependent on claims 4 and 5, respectively, and the additional feature of claims 5 and 6 of authenticating whether an application is validly downloaded and installed, could be easily observed and constituted by a person skilled in the art from the feature of document D3 of enabling the application management server to implement the authentication procedure for the specific application. Thus, the invention as set forth in claims 5 and 6 lacks an inventive step on the basis of the combination of documents D1 and D3 (PCT Article 33(3)).

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Claim 7 is dependent on claim 6 and the additional feature of claim 7 of authenticating whether an application is validly download and installed on the basis of whether a token transmitted to a server of a buyer is matched with a token registered in an application, could be predicted from the feature of document D3 of determining the authentication of the specific application when the pre-stored information corresponds to the received information by determining whether the information stored in the application management server corresponds to the received specific application information (App ID). Thus, the invention as set forth in claim 7 lacks an inventive step on the basis of the combination of documents D1 and D3 (PCT Article 33(3)).

Claim 8 is dependent on claim 7 and the additional feature of claim 8 wherein a token to registered in an application is registered in a downloading and installing process of the application, could be easily observed and constituted by a person skilled in the art from the feature of document D3 of downloading and installing an application and an application management program from an application provision server. Thus, the invention as set forth in claim 8 lacks an inventive step on the basis of the combination of documents D1 and D3 (PCT Article 33(3)).

Claim 9 is dependent on claim 1 and pertains to a mobile transaction method wherein a mobile transaction is a transaction for performing price settlement using a mobile payment means on an online transaction. Document

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D1 discloses: the integrated authentication system for enabling a user to perform price settlement online by selecting a desired payment means when performing price settlement online through a personal mobile phone; and the method therefor. Since document D1 discloses all the technical features of claim 9, claim 9 can be anticipated by document D1. Thus, the invention as set forth in claim 9 lacks novelty (PCT Article 33(2)).

1.2. Claim 10

Claim 10 pertains to an authentication server, comprising: a communication interface for receiving an authentication request related to a mobile transaction; and a processor for authenticating whether a buyer side of the mobile transaction is valid, and transmitting the authenticated result through the communication interface. Document D1 discloses the integrated authentication server comprising an authentication request processing unit for implementing the authentication for the user in response to the user identification request for identifying the user and the virtual account information from the payment server and transferring the authenticated value to the payment server. Since document D1 discloses all the technical features of claim 10, claim 10 can be anticipated by document D1. Thus, the invention as set forth in claim 10 lacks novelty (PCT Article 33(2)).

Claim 11 is dependent on claim 10 and the additional feature of claim 11 of enabling an authentication server to provide an application used for performing price

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settlement of a mobile transaction, is not disclosed in document D1, but could be easily adopted or selected by a person skilled in the art. Thus, the invention as set forth in claim 11 lacks an inventive step on the basis of document D1 (PCT Article 33(3)).

2. Industrial Applicability

The invention as set forth in claims 1 to 11 is industrially applicable (PCT Article 33(4)).

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2013/010855

<p>A. CLASSIFICATION OF SUBJECT MATTER <i>H04W 4/24(2009.01)i, H04W 8/22(2009.01)i</i></p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																	
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Y	JUNG, Eun Su. "Applications, Solutions, and Field Services." SK planet, 25 June 2012 pp. 13-15.	1-13															
A	KR 10-2003-0047962 A (BAAS NETWORK, INC.) 18 June 2003 See claims 1-20, pages 3-6, figures 1-8c.	1-13															
A	KR 10-2011-0039902 A (SK TELECOM CO., LTD.) 20 April 2011 See claims 1, 12, paragraphs [11]-[29], figures 1-5.	1-13															
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<p>Date of the actual completion of the international search</p> <p align="center">28 JANUARY 2014 (28.01.2014)</p>		<p>Date of mailing of the international search report</p> <p align="center">29 JANUARY 2014 (29.01.2014)</p>															
<p>Name and mailing address of the ISA/KR</p> <p> Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea</p> <p>Facsimile No. 82-42-472-7140</p>		<p>Authorized officer</p> <p>Telephone No.</p>															

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Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2003-0047962 A	18/06/2003	NONE	
KR 10-2011-0039902 A	20/04/2011	NONE	

PATENT COOPERATION TREATY

TRANSLATION

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference OHP0058PCT		Date of mailing (day/month/year) 29.01.2014
International application No. PCT/KR2013/010855		FOR FURTHER ACTION See paragraph 2 below
International filing date (day/month/year) 27.11.2013	Priority date (day/month/year) 28.11.2012	
International Patent Classification (IPC) or both national classification and IPC H04W4/24 (2009.01) i, H04W8/22 (2009.01) i		
Applicant SK C&C CO., LTD.		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2013/010855

Box No. I

Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - the international application in the language in which it was filed
 - a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
 - a. (means)
 - on paper
 - in electronic form
 - b. (time)
 - in the international application as filed
 - together with the international application in electronic form
 - subsequently to this Authority for the purposes of search
4. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/KR2013/010855

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement	Novelty (N)	Claims <u>1-13</u> Claims <u>None</u>	YES NO
	Inventive step (IS)	Claims <u>None</u> Claims <u>1-13</u>	YES NO
	Industrial applicability (IA)	Claims <u>1-13</u> Claims <u>None</u>	YES NO
<p>2. Citations and explanations:</p> <p style="margin-left: 40px;">Reference is made to the following documents:</p> <p style="margin-left: 40px;">D1: KIM, Tae Jin. "Trend on World Market of Smart Phone Mobile Payment and Secure Project," BC Card, 14 October 2010</p> <p style="margin-left: 40px;">D2: JUNG, Eun Su. "Applications, Solutions, and Field Services." SK planet, 25 June 2012</p> <p style="margin-left: 40px;">1. Novelty and Inventive Step</p> <p style="margin-left: 40px;">(1) Claims 1, 8, 9 and 13</p> <p style="margin-left: 40px;">Claim 1 discloses a method for managing an SE applet, comprising: determining whether or not an application, which is installed in a memory of a mobile device, has been deleted; and sending a request for management of an applet, which has been issued in the secure element (SE) of the mobile device and is associated with the application, to a service management server if it is determined in the determining step that the application was deleted.</p> <p style="margin-left: 40px;">Said feature corresponds to the feature of D1 in which a</p>			

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<p>trusted service manager (TSM, service management server) issues/deletes an applet in a mobile device (see pages 28, 32 and 33). However, D1 differs from claim 1 in that the former does not explicitly describe the feature of deleting an applet associated with an application.</p> <p>However, said difference could be easily predicted and configured by a person skilled in the art without any particular technical difficulties from the feature of D1 of "installing and deleting, through a TSM, applets associated with an electronic wallet application" (pages 27 and 28) and the feature of D2, which falls under the same technical field as D1, of "an SE management system including an applet store, and a function of activating/deactivating an applet" (pages 13-15).</p> <p>Therefore, the invention as set forth in claim 1 is novel (PCT Article 33(2)) but lacks an inventive step (PCT Article 33(3)) in view of a combination of D1 and D2.</p> <p>Claims 8, 9 and 13 include corresponding or identical technical features to claim 1 and thus are subject to the same rejection reason as claim 1. Therefore, claims 8, 9 and 13 are novel (PCT Article 33(2)) but lack an inventive step (PCT Article 33(3)) in view of a combination of D1 and D2.</p> <p>(2) Claims 2 to 7 and 10 to 12</p> <p>The features delimited in said claims could be easily predicted and configured from the feature of D1 of an electronic wallet which manages customer information and operates an applet issuer, wherein the information is</p>

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<p>associated with a TSM (service management server, applet overall lock/unlock, applet installation and deletion) (see pages 32 and 33), and the feature of D2 of "an SE management system including an applet store and an SE manager in a terminal" (see pages 13-15). Therefore, claims 2 to 7 and 10 to 12 are novel (PCT Article 33(2)) but lack an inventive step (PCT Article 33(3)) in view of a combination of D1 and D2.</p> <p>2. Industrial Applicability</p> <p>The invention as set forth in claims 1-13 is industrially applicable (PCT Article 33(4)).</p>

WRITTEN OPINION OF THE
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Box No. VIII **Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

(1) It is unclear which feature is indicated by the term "said grasping step" used in claim 1.

(2) Claims 2 to 7, referring to claim 1, also include the same defect reason as claim 1.

(It is preferable to unify the terms "grasping" and "determining.")

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2013/010859

A. CLASSIFICATION OF SUBJECT MATTER

G06Q 20/40(2012.01)i, G06Q 20/32(2012.01)i

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)
G06Q 20/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Utility models and applications for Utility models: IPC as above
Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS (KIPO internal) & Keywords: e-wallet, authentication, mobile, encryption, encode, random value, time, password, key, OTP(one time password)

C. DOCUMENTS CONSIDERED TO BE RELEVANT


Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	KR 10-2008-0087917 A (AT SOLUTIONS INC.) 02 October 2008 See abstract, pages 5, 6, claims 1-3, 5 and 6 and figures 2-5.	1,2,7,8,10-12,17 ,19,20 3-6,9,13-16,18
Y A	KR 10-2011-0049649 A (UBIVELOX INC.) 12 May 2011 See abstract, page 8, claims 1, 5, 6 and 9 and figures 1-3.	1,2,7,8,10-12,17 ,19,20 3-6,9,13-16,18
A	KR 10-2008-0054790 A (INNOSEED CO., LTD) 19 June 2008 See abstract, paragraphs 26, 27, 64, 67 and 68, claims 11-13, 15 and figure 4.	1-20
A	KR 10-2007-0091808 A (WISEWIRES INC.) 12 September 2007 See abstract, pages 16, 17, claims 1, 2, 4 and 6 and figures 6, 7.	1-20

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
 "E" earlier application or patent but published on or after the international filing date
 "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)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed
 "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
 "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
 "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
 "&" document member of the same patent family

Date of the actual completion of the international search
30 DECEMBER 2013 (30.12.2013)

Date of mailing of the international search report
30 DECEMBER 2013 (30.12.2013)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
 Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701,
 Republic of Korea
 Facsimile No. 82-42-472-7140

Authorized officer

Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2013/010859

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2008-0087917 A	02/10/2008	NONE	
KR 10-2011-0049649 A	12/05/2011	NONE	
KR 10-2008-0054790 A	19/06/2008	NONE	
KR 10-2007-0091808 A	12/09/2007	NONE	

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference OHP0056PCT		Date of mailing (day/month/year) 30.12.2013
International application No. PCT/KR2013/010859		FOR FURTHER ACTION See paragraph 2 below
International filing date (day/month/year) 27.11.2013	Priority date (day/month/year) 29.11.2012	
International Patent Classification (IPC) or both national classification and IPC G06Q20/40 (2012.01) i, G06Q20/32 (2012.01) i		
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Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
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International application No.
PCT/KR2013/010859

Box No. I	Basis of this opinion
1.	<p>With regard to the language, this opinion has been established on the basis of:</p> <p><input checked="" type="checkbox"/> the international application in the language in which it was filed</p> <p><input type="checkbox"/> a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).</p> <p>2. <input type="checkbox"/> This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43<i>bis</i>.1(a))</p> <p>3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:</p> <p>a. (means)</p> <p><input type="checkbox"/> on paper</p> <p><input type="checkbox"/> in electronic form</p> <p>b. (time)</p> <p><input type="checkbox"/> in the international application as filed</p> <p><input type="checkbox"/> together with the international application in electronic form</p> <p><input type="checkbox"/> subsequently to this Authority for the purposes of search</p> <p>4. <input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p> <p>5. Additional comments:</p>

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																								
1. Statement	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; vertical-align: top; padding: 2px;">Novelty (N)</td> <td style="padding: 2px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-20</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">None</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table> </td> </tr> <tr> <td style="vertical-align: top; padding: 2px;">Inventive step (IS)</td> <td style="padding: 2px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">3-6, 9, 13-16, 18</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-2, 7-8, 10-12, 17, 19-20</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table> </td> </tr> <tr> <td style="vertical-align: top; padding: 2px;">Industrial applicability (IA)</td> <td style="padding: 2px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-20</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">None</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table> </td> </tr> </table>	Novelty (N)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-20</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">None</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table>	Claims	1-20	YES	Claims	None	NO	Inventive step (IS)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">3-6, 9, 13-16, 18</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-2, 7-8, 10-12, 17, 19-20</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table>	Claims	3-6, 9, 13-16, 18	YES	Claims	1-2, 7-8, 10-12, 17, 19-20	NO	Industrial applicability (IA)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-20</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">None</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table>	Claims	1-20	YES	Claims	None	NO
Novelty (N)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">1-20</td> <td style="width: 10%; text-align: right; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">Claims</td> <td style="border-bottom: 1px solid black; padding: 2px;">None</td> <td style="text-align: right; padding: 2px;">NO</td> </tr> </table>	Claims	1-20	YES	Claims	None	NO																		
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Claims	None	NO																							
2. Citations and explanations:	<p>Reference is made to the following documents:</p> <p>D1: KR 10-2008-0087917 A (AT SOLUTION INC.) 02 October 2008</p> <p>D2: KR 10-2011-0049649 A (UBIVELOX INC.) 12 May 2011</p> <p>D3: KR 10-2008-0054790 A (INNOSEED CO., LTD.) 19 June 2008</p> <p>D4: KR 10-2007-0091808 A (WISEWIRES INC.) 12 September 2007</p> <p>1. Novelty and Inventive Step</p> <p><u>1.1. Claim 1 (Independent Claim) and Claims 2-7 (Dependent Claims)</u></p> <p>Corresponding to claim 1, D1 suggests a system for certifying a one-time password, comprising: communicating with a key issuance system; transmitting, to a key issuance server, encryption key request information including user ID information and unique terminal information, and receiving and storing a second encryption key; encrypting the unique</p>																								

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International application No.
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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<p>terminal information to generate a third encryption key; generating a final encryption key using the third encryption key and the second encryption key; generating the one-time password using the final encryption key; and requesting, through a network, a one-time password authentication including the one-time password to which terminal user ID information and synchronization information are added. Compared with D1, there is a difference in that claim 1 codes first authentication information using a public key to generate first authentication information. However, said difference could be simply derived from the feature of D2, in which an electronic wallet device and a user are authenticated for communication with a financial server using an electronic wallet device identification number and user identification number encoded by a public key method. In addition, it would be obvious to a person skilled in the art to combine D1 with D2. Therefore, the invention as set forth in claim 1 lacks an inventive step (PCT Article 33(3)).</p> <p>The feature added in claim 2 is that the first authentication information is a user password inputted by a user input. However, since it is widely known in the relevant field to use a user password as authentication information, said feature could be simply adopted by a person skilled in the art. Therefore, the invention as set forth in claim 2 lacks an inventive step (PCT Article 33(3)).</p> <p>The feature added in claim 3 differs from the inventions described in D1-D4 with respect to receiving and transmitting an OTP, authenticating terminal identification information, and receiving second authentication information. In addition, said difference would not be obvious to a person skilled in</p>

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citations and explanations supporting such statement

the art. Therefore, the invention as set forth in claim 3 is novel and involves an inventive step (PCT Article 33(3)).

Claims 4-6 are dependent on claim 3 and thus are novel and involve an inventive step (PCT Article 33(2) and (3)).

The feature added in claim 7 is that the encoding used in the encoder cannot decode the encoded second authentication information to the second authentication information using the random value and the encoded time information. However, said feature could be simply derived by a person skilled in the art from the feature suggested in D1 of setting a factor of the hash function to generate a final encryption key (see paragraphs [0028]-[0030]). Therefore, the invention as set forth in claim 7 does not involve an inventive step (PCT Article 33(3)).

1-2. Claim 8 (Independent Claim) and Claims 9 and 10 (Dependent Claims)

Claims 8 and 10 recite the invention as set forth in claim 1 and the invention as set forth in 7, respectively, from the perspective of the electronic wallet management server, and claims 8 and 10 and claims 1 and 7 share identical technical features without particular differences. Accordingly, claims 8 and 10 are subject to the same opinion as claims 1 and 7 indicated above. Therefore, the invention as set forth in claims 8 and 10 lacks an inventive step (PCT Article 33(3)).

The feature added in claim 9 differs from the inventions described in D1-D4 with respect to receiving and transmitting an OTP, authenticating terminal identification information and

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<p>receiving second authentication information. In addition, said difference would not be obvious to a person skilled in the art. Therefore, the invention as set forth in claim 9 is novel and involves an inventive step (PCT Article 33(3)).</p> <p><u>1-3. Claim 11 (Independent Claim) and Claims 12-16 (Dependent Claims)</u></p> <p>Claims 11 and 12 pertain to a double authentication method in an electronic wallet system, and stepwisely describe the functions of the invention as set forth in claim 1 and the invention as set forth in claim 2, respectively. Claims 11 and 12 and claims 1 and 2 are different only in the category of the invention and have the same technical features. Accordingly, claims 11 and 12 are subject to the same opinion as claims 1 and 2 indicated above. Therefore, the invention as set forth in claims 11 and 12 lacks an inventive step (PCT Article 33(3)).</p> <p>The feature added in claim 13 differs from the inventions described in D1-D4 with respect to receiving and transmitting an OTP, authenticating terminal identification information, and receiving second authentication information. In addition, said difference would not be obvious to a person skilled in the art. Therefore, the invention as set forth in claim 13 is novel and involves an inventive step (PCT Article 33(3)).</p> <p>Claims 14-16 are dependent on claim 13 and thus are novel and involve an inventive step (PCT Article 33(2) and (3)).</p> <p><u>1-4. Claim 17 (Independent Claim) and Claim 18 (Dependent Claim)</u></p>

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Claim 17 pertains to a double authentication method in an electronic wallet system, and stepwisely describes the functions of the invention as set forth in claim 8. The two inventions are different only in the category of the invention and have the same technical features. Accordingly, claim 17 is subject to the same opinion as claim 8 indicated above. Therefore, the invention as set forth in claim 17 lacks an inventive step (PCT Article 33(3)).

The feature added in claim 18 differs from the inventions described in D1-D4 with respect to receiving and transmitting an OTP, authenticating terminal identification information, and receiving second authentication information. In addition, said difference would not be obvious to a person skilled in the art. Therefore, the invention as set forth in claim 18 is novel and involves an inventive step (PCT Article 33(3)).

1-5. Claim 19 (Independent Claim)

Claim 19 pertains to a computer-readable recording medium in which a program for executing the method of claim 11 is recorded. Accordingly, claim 19 is subject to the same opinion as claim 11 indicated above. Therefore, the invention as set forth in claim 19 lacks an inventive step (PCT Article 33(3)).

1-6. Claim 20 (Dependent Claim)

Claim 20 pertains to a computer-readable recording medium in which a program for executing the method of claim 17 is recorded. Accordingly, claim 20 is subject to the same opinion as claim 17 indicated above. Therefore, the invention as set

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forth in claim 20 lacks an inventive step (PCT Article 33(3)).

2. Industrial Applicability

The invention as set forth in claims 1-20 is industrially applicable (PCT Article 33(4)).

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2014/010008

A. CLASSIFICATION OF SUBJECT MATTER
G06F 3/048(2006.01)i
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)
G06F 3/048; G06Q 20/40; G06F 3/14; G06Q 20/32; G06F 21/36; G06Q 20/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Utility models and applications for Utility models: IPC as above
Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS (KIPO internal) & Keywords: item, list


C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2012-0047721 A (BCCARD CO.,LTD) 14 May 2012 See abstract and; paragraphs [0036, 0063-0094]; and figures 2-4.	1-15
Y	KR 10-2011-0096038 A (VISA INTERNATIONAL SERVICE ASSOCIATION) 26 August 2011 See abstract and; paragraphs [0020-0034]; and figures 4a, 4b.	1-15
A	KR 10-2013-0080935 A (SAMSUNG ELECTRONICS CO., LTD.) 16 July 2013 See abstract and; claims 1, 2; paragraphs [0015, 0017, 0018, 0077, 0078]; and figures 1, 2.	1-15
A	KR 10-2012-0092035 A (SAMSUNG ELECTRONICS CO., LTD.) 20 August 2012 See abstract and; claim 1; paragraphs [0262-0264]; and figures 10a-11f.	1-15

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

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Date of the actual completion of the international search 26 JANUARY 2015 (26.01.2015)	Date of mailing of the international search report 27 JANUARY 2015 (27.01.2015)
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Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer Telephone No.
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International application No.

PCT/KR2014/010008

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International application No.

PCT/KR2014/010008

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		WO 2012-108729 A3	26/10/2012
		WO 2013-191488 A1	27/12/2013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2014/010006

<p>A. CLASSIFICATION OF SUBJECT MATTER <i>G06Q 30/02(2012.01)i</i></p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																				
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) G06Q 30/02; G06Q 20/36; G06Q 20/06; G06F 9/44; G06Q 30/00; G06Q 30/00</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models: IPC as above Japanese Utility models and applications for Utility models: IPC as above</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal) & Keywords: payment, attached, item, recognizing, selection, store, POS, POS, coupon, ticket, rule</p>																				
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>KR 10-2012-0105600 A (SHIN, Chan Sik) 26 September 2012 See abstract, claims 1-2, 6 and figures 1-3.</td> <td>1-15</td> </tr> <tr> <td>Y</td> <td>KR 10-2013-0057065 A (DANAL CO.,LTD.) 31 May 2013 See abstract, claims 11, 14-15, paragraphs [0150], [0163], [0166] and figures 13-15.</td> <td>1-15</td> </tr> <tr> <td>Y</td> <td>KR 10-2012-0105596 A (SEOWON INTECH CO., LTD.) 26 September 2012 See abstract, claims 1-2 and figures 1-6.</td> <td>7,14</td> </tr> <tr> <td>A</td> <td></td> <td>1-6,15</td> </tr> <tr> <td>A</td> <td>KR 10-2011-0032350 A (LEE, Su Mi et al.) 30 March 2011 See abstract, claims 1-6 and figures 1-8.</td> <td>1-15</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	KR 10-2012-0105600 A (SHIN, Chan Sik) 26 September 2012 See abstract, claims 1-2, 6 and figures 1-3.	1-15	Y	KR 10-2013-0057065 A (DANAL CO.,LTD.) 31 May 2013 See abstract, claims 11, 14-15, paragraphs [0150], [0163], [0166] and figures 13-15.	1-15	Y	KR 10-2012-0105596 A (SEOWON INTECH CO., LTD.) 26 September 2012 See abstract, claims 1-2 and figures 1-6.	7,14	A		1-6,15	A	KR 10-2011-0032350 A (LEE, Su Mi et al.) 30 March 2011 See abstract, claims 1-6 and figures 1-8.	1-15
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<p>Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140</p>		<p>Authorized officer Telephone No.</p>																		

INTERNATIONAL SEARCH REPORT
Information on patent family members


International application No.

PCT/KR2014/010006

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2012-0105600 A	26/09/2012	NONE	
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KR 10-2012-0105596 A	26/09/2012	NONE	
KR 10-2011-0032350 A	30/03/2011	NONE	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2014/010131

<p>A. CLASSIFICATION OF SUBJECT MATTER <i>G06F 3/048(2006.01)i, G06F 3/14(2006.01)i</i></p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																							
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) G06F 3/048; G06Q 20/06; H04W 4/02; G06Q 20/16; G06F 3/01; G06F 3/041; G06F 3/14</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models: IPC as above Japanese Utility models and applications for Utility models: IPC as above</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal) & Keywords: purse, application, list, code, indication, information, drag, slide</p>																							
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INTERNATIONAL SEARCH REPORT
Information on patent family members


International application No.

PCT/KR2014/010131

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2014/011701

A. CLASSIFICATION OF SUBJECT MATTER <i>G06Q 30/06(2012.01)i, G06Q 30/02(2012.01)i</i> According to International Patent Classification (IPC) or to both national classification and IPC		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2000-0049878 A (BANG, Hee Yeol) 05 August 2000 See claims 1 to 2 and page 2.	1-13
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<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 03 MARCH 2015 (03.03.2015)		Date of mailing of the international search report 03 MARCH 2015 (03.03.2015)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2014/011701

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KR 10-2000-0049878 A	05/08/2000	KR 10-2001-0102820 A	16/11/2001
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KR 10-2002-0016161 A	04/03/2002	NONE	
KR 10-2010-0020539 A	23/02/2010	NONE	

Electronic Acknowledgement Receipt

EFS ID:	25773366
Application Number:	14647859
International Application Number:	
Confirmation Number:	5414
Title of Invention:	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME
First Named Inventor/Applicant Name:	Min Hwan JEON
Customer Number:	22913
Filer:	John C. Stringham/Lindsey Gifford
Filer Authorized By:	John C. Stringham
Attorney Docket Number:	20533.40a.1
Receipt Date:	13-MAY-2016
Filing Date:	28-MAY-2015
Time Stamp:	14:26:22
Application Type:	U.S. National Stage under 35 USC 371

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Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO2015064983.pdf	1292833 <small>19c52632732c4975b4b5dd24e5fe158585b c4d91</small>	no	34

Warnings:

Information:

2	Foreign Reference	WO2015064985.pdf	1267322	no	29
			c1cc3b879b70d14d7582977d63988516bc7d1826		
Warnings:					
Information:					
3	Foreign Reference	WO2015064986.pdf	1051379	no	35
			0c41d33e699f6eb59ea11564399cec72ac49fab		
Warnings:					
Information:					
4	Foreign Reference	WO2015076604.pdf	1131963	no	29
			77f9b910eec279e35c5bf92164f7e7a23d279056		
Warnings:					
Information:					
5	Foreign Reference	WO2015076605.pdf	1397203	no	36
			ba125737cf860d3346a2716bb06bb6d0af45c939		
Warnings:					
Information:					
6	Foreign Reference	WO2015093757.pdf	1009956	no	25
			697619536a4876823708833fa61f5bc54c2285af		
Warnings:					
Information:					
7	Other Reference-Patent/App/Search documents	SearchReportEP12854004.pdf	300746	no	8
			792dc92f9a562c99ec77427of529c9218b7b032d		
Warnings:					
Information:					
8	Other Reference-Patent/App/Search documents	SearchReportEP12863342.pdf	408813	no	9
			f57cf9bd1b99b148ed83325e1b10fd4574a48		
Warnings:					
Information:					
9	Other Reference-Patent/App/Search documents	SearchReportEP13857798.pdf	346006	no	8
			119d2bb52262a0495c74e2fd57012e70f64a67a		
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR13-007775.pdf	264359	no	7
			38f7166c48840f092c082ed001777c18a0f0e144		
Warnings:					
Information:					

11	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR14-007791.pdf	259917 9ffd3dde42990ecec68821abf3c400b7588b1a96f	no	7
Warnings:					
Information:					
12	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-011237.pdf	131344 270582107b0fc5035b4ec1c22b6b40bee9a09d6	no	2
Warnings:					
Information:					
13	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-010130.pdf	111530 d36f65ed97458aba0cb667aaa9b01c58169e158e	no	2
Warnings:					
Information:					
14	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-010124.pdf	105384 c2ad340a14b541a8711f56c3a515441b7d254d66	no	2
Warnings:					
Information:					
15	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR14-007794.pdf	336702 0d23e9ee1345a42e3296b96eb2381826921f4b59	no	9
Warnings:					
Information:					
16	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-011238.pdf	115622 c27d062ca43840890703f01ebcaa2134cf91f84b	no	2
Warnings:					
Information:					
17	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR12-011585.pdf	346755 582197f9a1b77d1090683393ddf74e4c6564dfe	no	9
Warnings:					
Information:					
18	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR12-010324.pdf	427036 d09a078198eb221d10972713b7d3a671a4528846	no	11
Warnings:					
Information:					
19	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR13-010855.pdf	267408 235e8728bc82ee0a4208e8dbf7b9e7d2e4c91550	no	8
Warnings:					
Information:					

20	Other Reference-Patent/App/Search documents	ISRWO_PCT-KR13-010859.pdf	374179	no	10
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Information:					
21	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-010008.pdf	158508	no	3
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Warnings:					
Information:					
22	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-010006.pdf	107987	no	2
			dfdcae122cefd7b4323f75ac5f0501fe63747d b8b		
Warnings:					
Information:					
23	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-010131.pdf	106987	no	2
			050bbd96618999c778bf930cabe83451f15 efb83		
Warnings:					
Information:					
24	Other Reference-Patent/App/Search documents	ISR_PCT-KR14-011701.pdf	103932	no	2
			37c741c05271cc74b5a277c4fb7c6a2adec1 5185		
Warnings:					
Information:					
25	Non Patent Literature	Jung.pdf	7254869	no	5
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26	Non Patent Literature	Kim.pdf	12968886	no	10
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27	Non Patent Literature	Labrou.pdf	1075658	no	10
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Information:					
28	Non Patent Literature	14369990_OA_Oct2014.pdf	354961	no	10
			418caec0bcc01023d96b4abb704fe03e248 40a67		
Warnings:					
Information:					

29	Non Patent Literature	14369990_FOA_March2015.pdf	487679 061861446b6f8764c002952557603251d74d6344	no	13
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30	Non Patent Literature	14362251_OA_Aug2015.pdf	728969 af0d4a70ba6d181f2864f5dd502f0a1011b8d9e	no	20
Warnings:					
Information:					
31	Non Patent Literature	14369990_OA_Nov2015.pdf	482627 ce3f361e0ea3abde818bd45e86461ed3ba03596c	no	13
Warnings:					
Information:					
32	Non Patent Literature	14362251_FOA_Feb2016.pdf	735941 ecfcf2eb58d2aabe933687ef1920a82176af6d59	no	20
Warnings:					
Information:					
Total Files Size (in bytes):			35513461		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/647,859	05/28/2015	Min Hwan JEON	Q220066

CONFIRMATION NO. 5414

POWER OF ATTORNEY NOTICE

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037



Date Mailed: 02/05/2016

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/21/2016.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/cnguyen/



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/647,859	05/28/2015	Min Hwan JEON	20533.40a.1

CONFIRMATION NO. 5414

POA ACCEPTANCE LETTER

22913
Workman Nydegger
60 East South Temple
Suite 1000
Salt Lake City, UT 84111



Date Mailed: 02/05/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/21/2016.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/cnguyen/

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date
14/647,859	05/28/2015

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

22913

OR

I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

The address associated with the above-mentioned Customer Number

OR

The address associated with Customer Number:

OR

Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Mozido Corfire - Korea, Ltd.

- Inventor or Joint Inventor (title not required below)
- Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	Date (Optional)
Name	John Chung
Title	Temporary Country Manager

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1489, Alexandria, VA 22313-1489.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CHANGE OF CORRESPONDENCE ADDRESS *Application*

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/647,859
Filing Date	05-28-2015
First Named Inventor	Min Hwan Jeon
Art Unit	3693
Examiner Name	Shahid R. Merchant
Attorney Docket Number	20533.40a.1

Please change the Correspondence Address for the above-identified patent application to:

The address associated with
Customer Number:

22913

OR

Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the:

Applicant

Attorney or agent of record. Registration Number 40831

Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____

Signature /John C. Stringham, 40831/

Typed or Printed
Name John C. Stringham

Date 01/21/2016

Telephone 801-533-9800

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.
Submit multiple forms if more than one signature is required, see below*.

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220966 20533.40a.1
		Application Number	14/647,859
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

Secrecy Order 37 CFR 5.2:

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	State/Province	Country of Residence		
Mailing Address of Inventor:				
Address 1				
Address 2				
City	State/Province			
Postal Code	Country			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add				

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	23373 22913		
Email Address	sughfue@sughfue.com	docketing@wnlaw.com	Add Email Remove Email

Application Information:

Title of the Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
Attorney Docket Number	Q220966 20533.40a.1	Small Entity Status Claimed <input type="checkbox"/>	
Application Type			
Subject Matter			
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066	20533.40a.1
		Application Number	14/647,859	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)

Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	23373	22913	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status			<input type="button" value="Remove"/>
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220966	20533.40a.1
		Application Number	14/647,859	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
			Remove
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL		Attorney Docket Number	Q220066	20533.40a.1
Application Data Sheet 37 CFR 1.76		Application Number	14/647,859	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h) (1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL		Attorney Docket Number	Q220066	20533.40a.1
Application Data Sheet 37 CFR 1.76		Application Number	14/647,859	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
<input type="button" value="Clear"/>			
<input type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor	
<input type="radio"/> Person to whom the inventor is obligated to assign.	<input type="radio"/> Person who shows sufficient proprietary interest		
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor: <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name <input type="text"/>			
Mailing Address Information For Applicant:			
Address 1		<input type="text"/>	
Address 2		<input type="text"/>	
City	<input type="text"/>	State/Province	<input type="text"/>
Country	<input type="text"/>	Postal Code	<input type="text"/>
Phone Number	<input type="text"/>	Fax Number	<input type="text"/>
Email Address <input type="text"/>			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066	20533.40a.1
		Application Number	14/647,859	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. <input type="checkbox"/>				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).				
This Application Data Sheet must be signed by a patent practitioner if one or more of the applicants is a juristic entity (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, all joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of all joint inventor-applicants.				
See 37 CFR 1.4(d) for the manner of making signatures and certifications.				
Signature	/John C. Stringham, 40831/		Date (YYYY-MM-DD)	2016-01-21
First Name	John C.	Last Name	Stringham	Registration Number
				40831
Additional Signature may be generated within this form by selecting the Add button.				

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SUPPLEMENTAL Application Data Sheet 37 CFR 1.76		Attorney Docket Number	<u>Q220066</u> <u>20533.40a.1</u>
		Application Number	<u>14/647,859</u>
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	24694388
Application Number:	14647859
International Application Number:	
Confirmation Number:	5414
Title of Invention:	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME
First Named Inventor/Applicant Name:	Min Hwan JEON
Customer Number:	23373
Filer:	John C. Stringham/Rachelle Turner
Filer Authorized By:	John C. Stringham
Attorney Docket Number:	Q220066
Receipt Date:	21-JAN-2016
Filing Date:	28-MAY-2015
Time Stamp:	22:21:56
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	20533_40a_1_POA.pdf	1703031 <small>5658b37faf0c8cc479551392473a3311bdc95d1</small>	no	1

Warnings:

Information:

2	Change of Address	20533_40a_1_COCA.pdf	208838 a8b08e3fd2e16799a226821e96bb88158089916f	no	2
Warnings:					
Information:					
3	Application Data Sheet	20533_40a_1_supp_ads.pdf	2755632 36748489a5b36e2a2fd314bc20b7265093777be5	no	8
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
Total Files Size (in bytes):				4667501	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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Table with 4 columns: APPLICATION NUMBER (14/647,859), FILING OR 371(C) DATE (05/28/2015), FIRST NAMED APPLICANT (Min Hwan JEON), ATTY. DOCKET NO./TITLE (Q220066)

CONFIRMATION NO. 5414

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

PUBLICATION NOTICE



Title:METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME

Publication No.US-2015-0302396-A1

Publication Date:10/22/2015

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 14/647,859, 05/28/2015, 1480, Q220066, 15, 2

CONFIRMATION NO. 5414

FILING RECEIPT

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037



Date Mailed: 07/13/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Min Hwan JEON, Gwangju-si, KOREA, REPUBLIC OF;

Applicant(s)

MOZIDO CORFIRE - KOREA, LTD., Seongnam-si Gyeonggi-do, KOREA, REPUBLIC OF;

Assignment For Published Patent Application

MOZIDO CORFIRE - KOREA, LTD., Seongnam-si, Gyeonggi-do, KR

Power of Attorney: The patent practitioners associated with Customer Number 23373

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/KR2013/007775 08/29/2013

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.)

REPUBLIC OF KOREA 10-2012-0135940 11/28/2012

Permission to Access - A proper Authorization to Permit Access to Application by Participating Offices (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 07/06/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 14/647,859

Projected Publication Date: 10/22/2015

Non-Publication Request: No

Early Publication Request: No

Title

METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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Table with 3 columns: U.S. APPLICATION NUMBER NO. (14/647,859), FIRST NAMED INVENTOR (Min Hwan JEON), ATTY. DOCKET NO. (Q220066). Includes address: 23373 SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC 20037.

Table with 2 columns: INTERNATIONAL APPLICATION NO. (PCT/KR2013/007775), L.A. FILING DATE (08/29/2013), PRIORITY DATE (11/28/2012).

CONFIRMATION NO. 5414
371 ACCEPTANCE LETTER



Date Mailed: 07/13/2015

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office, in its capacity as a Designated / Elected Office (37 CFR 1.495), has ACCEPTED the above identified international application for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above. A Filing Receipt will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE or 371(c) DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1) and (c)(2) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN BELOW. The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363)

05/28/2015
DATE OF RECEIPT OF 35 U.S.C.
371(c)(1) and (c)(2) REQUIREMENTS

The following items have been received:

- Copy of the International Application filed on 05/28/2015
• English Translation of the IA filed on 05/28/2015
• Copy of the International Search Report filed on 05/28/2015
• Copy of IPE Report filed on 05/28/2015
• Preliminary Amendments filed on 05/28/2015
• Inventor's Oath or Declaration filed on 05/28/2015
• Request for Immediate Examination filed on 05/28/2015
• U.S. Basic National Fees filed on 05/28/2015
• Priority Documents filed on 05/28/2015
• Power of Attorney filed on 05/28/2015
• Non-English Language Application filed on 05/28/2015
• Authorization to Permit Access filed on 05/28/2015
• Application Data Sheet (37 CFR 1.76) filed on 05/28/2015

FORM PCT/DO/EO/903 (371 Acceptance Notice)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

RODERICK M JONES

Telephone: (571) 272-9083

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/647,859

APPLICATION AS FILED - PART I

(Column 1)		(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A			N/A	480
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	15 minus 20 = *	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 = *	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1480

APPLICATION AS AMENDED - PART II

(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =	x =	
	Application Size Fee (37 CFR 1.16(s))							
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =	x =	
	Application Size Fee (37 CFR 1.16(s))							
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET							Application Number		Filing Date		
Substitute for Form PTO-1360 (For use with Form PTO/SB/06)							14647859				
							Applicant(s) Min Hwan JEON				
							* May be used for additional claims or amendments				
CLAIMS	AS FILED		AFTER FIRST AMENDMENT		AFTER SECOND AMENDMENT		*		*		
	Indep	Depend	Indep	Depend	Indep	Depend	Indep	Depend	Indep	Depend	
1	1										
2		1									
3		1									
4		1									
5		1									
6		1									
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46											
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48											
49											
50											
Total Indep	2		0		0						
Total Depend	13		0		0						
Total Claims	15		0		0						
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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY DOCKET NO. Q220066
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) Not Yet Assigned
INTERNATIONAL APPLICATION NO. PCT/KR2013/007775	INTERNATIONAL FILING DATE August 29, 2013	PRIORITY DATE CLAIMED November 28, 2012
TITLE OF INVENTION METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
FIRST NAMED INVENTOR Min Hwan JEON		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.		
1. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). NOTE: The express request under 35 U.S.C. 371(f) will not be effective unless the requirements under 35 U.S.C. 371(c)(1), (2), and (4) for payment of the basic national fee, copy of the International Application and English translation thereof (if required), and the oath or declaration of the inventor(s) have been received.		
2. <input type="checkbox"/> A copy of the International Application (35 U.S.C. 371(c)(2)) is attached hereto (not required if the International Application was previously communicated by the International Bureau or was filed in the United States Receiving Office (RO/US)).		
3. <input checked="" type="checkbox"/> An English language translation of the International Application (35 U.S.C. 371(c)(2))		
a. <input checked="" type="checkbox"/> is attached hereto.		
b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).		
4. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))		
a. <input checked="" type="checkbox"/> is attached.		
b. <input type="checkbox"/> was previously filed in the international phase under PCT Rule 4.17(iv).		
Items 5 to 8 below concern amendments made in the international phase.		
<u>PCT Article 19 and 34 amendments</u>		
5. <input type="checkbox"/> Amendments to the claims under PCT Article 19 are attached (not required if communicated by the International Bureau) (35 U.S.C. 371(c)(3)).		
6. <input type="checkbox"/> English translation of the PCT Article 19 amendment is attached (35 U.S.C. 371(c)(3)).		
7. <input type="checkbox"/> English translation of annexes (Article 19 and/or 34 amendments only) of the International Preliminary Examination Report is attached (35 U.S.C. 371(c)(5)).		
<u>Cancellation of amendments made in the international phase</u>		
8a. <input type="checkbox"/> Do not enter the amendment made in the international phase under PCT Article 19.		
8b. <input type="checkbox"/> Do not enter the amendment made in the international phase under PCT Article 34.		
NOTE: A proper amendment made in English under Article 19 or 34 will be entered in the U.S. national phase application absent a clear instruction from applicant not to enter the amendment(s).		
The following items 9 to 17 concern a document(s) or information included.		
9. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
10. <input checked="" type="checkbox"/> A preliminary amendment.		
11. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.		
12. <input type="checkbox"/> A substitute specification. NOTE: A substitute specification cannot include claims. See 37 CFR 1.125(b).		
13. <input type="checkbox"/> A power of attorney and/or change of address letter.		
14. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.3 and 37 CFR 1.821- 1.825.		
15. <input type="checkbox"/> Assignment papers (<i>cover sheet and document(s)</i>). Name of Assignee: MOZIDO CORFIRE - KOREA, LTD.		
16. <input type="checkbox"/> 37 CFR 3.73(c) Statement (<i>when there is an Assignee</i>).		

U.S. APPLN NO. (if known, see 37 CFR 1.5) Not Yet Assigned		INTERNATIONAL APPLICATION NO. PCT/KR2013/007775		ATTORNEY DOCKET NO. Q220066	
17. <input checked="" type="checkbox"/> Other items or information: Copies of forms PCT/RO/101, PCT/IB/308, PCT/ISA/202, PCT/IB/311, PCT/IB/304, PCT/IB/301, PCT/RO/113, PCT/IB/306, and a copy of the ISR.					
The following fees have been submitted.				CALCULATIONS PTO USE ONLY	
<input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$280				\$280	
<input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 All other situations \$720				\$720	
<input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$120 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$480 All other situations... \$600				\$480	
TOTAL OF 18, 19 and 20 =				\$1,480	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) in an electronic medium or computer program listing in an electronic medium) (37 CFR 1.492(j)). Fee for each additional 50 sheets of paper or fraction thereof..... \$400					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
36 - 100 =	0/50 =	0	x \$400	\$0	
Surcharge of \$140.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	
Total claims		15 - 20 =	0	x \$80	\$0
Independent claims		2 - 3 =	0	x \$420	\$0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$780	\$0
Processing fee of \$140.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$
TOTAL OF ABOVE CALCULATIONS =				\$1,480	
<input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2					
<input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Fees above are reduced by 3/4. Applicant must attach form PTO/SB/15A or B or equivalent.					
TOTAL NATIONAL FEE =				\$1,480	
Fee for recording the attached assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					
+					
Fee for Extension of Time					
TOTAL FEES ATTACHED =				\$1,480	
				Amount to be refunded:	\$
				Amount to be charged	\$

- a. A check in the amount of \$ _____ to cover the above fees is attached.
- b. Please charge my Deposit Account No. 19-4880 in the amount of \$ _____ to cover the above fees.
- c. The Director is hereby authorized to charge additional fees which may be required, or credit any overpayment, to Deposit Account No. 19-4880 as follows:
 - i. any required fee except for the issue fee.
 - ii. any required fee except for the issue fee and excess claims fees required under 37 CFR 1492(d) and (e) and multiple dependent claim fee required under 37 CFR 1.492(f).
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. The PTO-2038 should only be mailed or faxed to the USPTO. However, when paying the basic national fee, the PTO-2038 may NOT be faxed to the USPTO.

ADVISORY: If filing by EFS-Web, do **NOT** attach the PTO-2038 form as a PDF along with your EFS-Web submission. Please be advised that this is not recommended and by doing so **your credit card information may be displayed via PAIR**. To protect your information, it is recommended to pay fees online by using the electronic payment method.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

- This application (1) claims priority to or the benefit of an application filed before March 16, 2013, and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE 1: By providing this statement under 37 CFR 1.55 or 1.78, **this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.**

NOTE 2: A U.S. national stage application may not claim priority to the international application of which it is the national phase. The filing date of a U.S. national stage application is the international filing date. See 35 U.S.C. 363.

SEND ALL CORRESPONDENCE TO:
The address associated with Customer Number:

WASHINGTON OFFICE
23373
CUSTOMER NUMBER

SIGNATURE	<u>/Chidambaram.S.Iyer/43355</u>	DATE	<u>May 28, 2015</u>
NAME (Print/Type)	Peter A. McKenna	REGISTRATION NO. (Attorney/Agent)	38,551

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

<input type="checkbox"/>	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2. (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
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Inventor Information:

Inventor 1					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Min Hwan		JEON		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Gwangju-si	Country of Residence i	KR		
Mailing Address of Inventor:					
Address 1	675-6, Sinhyeon-ri, Opo-eup				
Address 2					
City	Gwangju-si, Gyeonggi-do	State/Province			
Postal Code	464-925	Country i	KR		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	23373		
Email Address	sughrue@sughrue.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
Attorney Docket Number	Q220066	Small Entity Status Claimed <input type="checkbox"/>	
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	20	Suggested Figure for Publication (if any)	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)

Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	23373		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	Pending	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	a 371 of international	PCT/KR2013/007775	2013-08-29

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
10-2012-0135940	KR	2012-11-28	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

- This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
- NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			<input type="button" value="Remove"/>
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
<input type="button" value="Clear"/>			
<input checked="" type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	MOZIDO CORFIRE - KOREA, LTD.		
Mailing Address Information:			
Address 1	(Jeongja-dong) 9, Seongnam-daero 343beon-gil		
Address 2	Bundang-gu		
City	Seongnam-si, Gyeonggi-do	State/Province	
Country ⁱ	KR	Postal Code	463-847
Phone Number		Fax Number	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Assignee 1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
			<input type="button" value="Remove"/>
If the Assignee or Non-Applicant Assignee is an Organization check here.			<input checked="" type="checkbox"/>
Organization Name	MOZIDO CORFIRE - KOREA, LTD.		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	(Jeongja-dong) 9, Seongnam-daero 343beon-gil		
Address 2	Bundang-gu		
City	Seongnam-si, Gyeonggi-do	State/Province	
Country i	KR	Postal Code	463-847
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature	/Chidambaram.S.Iyer/43355		Date (YYYY-MM-DD)	2015-05-28	
First Name	Peter A.	Last Name	McKenna	Registration Number	38551
Additional Signature may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q220066
		Application Number	
Title of Invention	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

DESCRIPTION

Invention Title: METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME

Technical Field

[01] Methods and apparatuses consistent with exemplary embodiments relate to a method for setting a payment card, and more particularly, to a method for setting a mobile payment card to be used for payment and a mobile device applying the same.

Background Art

[02] To prevent double payment, a mobile wallet application sets one of the issued mobile payment cards as a main payment card and makes a payment.

[03] It is possible to make a payment using a mobile payment card other than the main payment card. However, to do so, users should go through an operation of setting a mobile payment card that the user wishes to use for payment as a main payment card in advance.

[04] When the user temporarily uses another mobile payment card to make a payment (for example, for one-time payment), the user should recover the original main payment card after finishing the payment. In this case, the operation of recovering the original main payment card may be a cumbersome procedure and may cause inconvenience to the user.

[05] In addition, the operation of changing the main payment card to another payment card may also cause inconvenience or difficulty to the user, and the user may not be accustomed to that operation, considering that mobile commerce is still at an early stage.

Disclosure

Technical Problem

[06] One or more exemplary embodiments provide a method for setting a temporary payment card, which sets, as a temporary payment card, a mobile payment card which is moved by a user from among mobile payment cards listed in a list, and resets the setting of the temporary payment card when a payable time passes, so that a user can change the temporary payment card more easily, swiftly, naturally, amusingly, and intuitively, and a mobile device applying the same.

Technical Solution

[07] According to an aspect of an exemplary embodiment, there is provided a method for setting a temporary payment card, including: displaying a list of mobile payment cards; setting, as a temporary payment card, a mobile payment card which is moved by a user from among the mobile payment card listed in the list; and resetting the setting of the temporary payment card when a payable time passes.

[08] The method may further include, when the moved mobile payment card is moved to an original position by the user, resetting the setting of the temporary payment card.

[09] The method may further include displaying a remaining payable time.

[10] The method may further include, when a payment is made within the payable time, resetting the setting of the temporary payment card.

[11] The method may further include, when the payable time passes, moving the mobile payment card moved by the user to an original position.

[12] The method may further include gradually moving the mobile payment card moved by the user to an original position according to a remaining payable time.

[13] The method may further include, 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.

[14] The movement by the user in the setting operation may be performed in a same method as the movement by the user in the extending operation.

[15] The method may further include, when the mobile device is moved by the user in a specific pattern prior to the payable time passing, extending the payable time.

[16] The method may further include, when the payable time passes, making the mobile payment card moved by the user disappear.

[17] The method may further include making the mobile payment card moved by the user gradually disappear according to a remaining payable time.

[18] The method may further include, when the remaining payable time is shorter than or equal to a threshold, outputting an alarm.

[19] The method may further include: displaying a list of additional services issued to the mobile device; and setting an additional service moved by the user from among the additional services listed in the list to be used.

[20] The method may further include, when a usable time passes, setting the additional service to be disabled.

[21] According to another aspect of an exemplary embodiment, there is provided a mobile device including: a touch screen configured to display a list of mobile payment cards; and a processor configured to set, as a temporary payment card, a mobile payment card which is moved by a user from among the mobile payment cards listed in the list displayed on the touch screen, and reset the setting of the temporary payment card when a payable time passes.

Advantageous Effects

[22] According to exemplary embodiments described above, a mobile payment card moved by a user from among mobile payment cards listed in a list is set as a temporary payment card, and, the setting of the temporary payment card is reset when a

payable time passes, so that the temporary payment card can be changed more easily and swiftly.

[23] In addition, an appropriate time desired by the user may be set as a payable time, and the payable time may be extended or forcibly terminated. Therefore, user convenience can be improved.

[24] In addition, various visual effects and animation effects are provided, so that the user can set a temporary payment card through a familiar and intuitive operation, and the operation of manipulating the mobile device may bring the user a sense of fun and amusement.

Description of Drawings

[25] FIG. 1 is a view showing a mobile device which displays a mobile payment card management screen;

[26] FIG. 2 is a view showing a mobile payment card addition screen;

[27] FIG. 3 is a view showing a screen when a user drags a mobile payment card to add to a mobile payment card list;

[28] FIG. 4 is a view showing a screen when the user drops the mobile payment card to an additional area provided on the upper portion of the mobile payment card addition screen;

[29] FIG. 5 is a view showing a screen on which a guide mark informing that a mobile payment card is selected is displayed on the center of the mobile payment card addition screen;

[30] FIG. 6 is a view showing a mobile device on which an input window for inputting "Activation Code" and "User ID" of the mobile payment card is displayed;

[31] FIG. 7 is a view showing a state in which "Activation Code" and "User ID" are entered by the user through the input window;

[32] FIG. 8 is a view showing a guide screen informing that addition of a mobile

payment card is in progress;

[33] FIG. 9 is a view showing the mobile payment card management screen in which a mobile payment card is added;

[34] FIG. 10 is a view showing a mobile device displaying a payment card selection screen of a mobile wallet application;

[35] FIG. 11 is a view showing a screen when the user slides up a mobile payment card;

[36] FIG. 12 is a view showing a resulting screen when the mobile payment card is moved to the upper portion of the payment card selection screen by the sliding-up operation;

[37] FIG. 13 is a view showing a screen when the user intentionally slides down a temporary payment card;

[38] FIG. 14 is a view showing a mobile device which displays a payment card selection screen of a mobile wallet application;

[39] FIG. 15 is a view showing a resulting screen when a mobile payment card is slid up by the user and is selected/set as a temporary payment card;

[40] FIG. 16 is a view showing a payment card selection screen when 10 seconds of a payable time pass;

[41] FIG. 17 is a view showing a payment card selection screen when 20 seconds of a payable time pass;

[42] FIG. 18 is a view showing a state in which the mobile payment card is slid up again by the user before the payable time passes;

[43] FIG. 19 is a view showing a state in which the payable time is extended; and

[44] FIG. 20 is a block diagram showing a mobile device to which the present disclosure is applicable.

Best Mode

[45] Hereinafter, the present disclosure will be explained in detail with reference to the accompanying drawings.

[46] FIG. 1 is a view showing a mobile device which displays a mobile payment card management screen. On the mobile payment card management screen shown in FIG. 1, a user may add a mobile payment card to a list by selecting the “Add new” item.

[47] FIG. 2 illustrates the mobile device displaying a mobile payment card addition screen which is provided when the user select the “Add new” item. As shown in FIG. 2, the mobile payment card addition screen shows mobile payment cards which are issued to a Secure Element (SE) of the mobile device on the lower portion thereof.

[48] When the user drags a mobile payment card to add to the mobile payment card list as shown in FIG. 3, and drops the mobile payment card to an additional area provided on the upper portion of the mobile payment card addition screen as shown in FIG. 4, the “V” mark is displayed on the center of the mobile payment card addition screen, informing that the mobile payment card to be added has been selected, as shown in FIG. 5.

[49] Thereafter, as shown in FIG. 6, the mobile payment card which has been dragged and dropped disappears from the mobile payment card addition screen, and an input window for entering “Activation Code” and “User ID” of the mobile payment card is displayed.

[50] When the user enters “Activation Code” and “User ID” through the input window as shown in FIG. 7, the process of adding the mobile payment card is performed as shown in FIG. 8, and the selected mobile payment card is added to the list on the mobile payment card management screen as shown in FIG. 9.

[51] One of the mobile payment cards listed in the list is set as a main payment card and is used as a payment means when the user makes a payment using the mobile device. The main payment card may be set through the mobile payment card management screen and also may be set through a mobile wallet application.

[52] The user may make a temporary payment using a mobile payment card other than the main payment card. To achieve this, the user should set a mobile payment card to be used for temporary payment as a temporary payment card.

[53] Hereinafter, a method for setting a temporary payment card according to an exemplary embodiment of the present disclosure will be explained with reference to FIGs. 10 to 13. For the convenience of explanation and understanding, it is assumed that the mobile payment card set as a main payment card is “VHS Card” and the mobile payment card set as a temporary payment card is “ABC PREMIER.”

[54] FIG. 10 is a view showing a mobile device which displays a payment card selection screen of a mobile wallet application. As shown in FIG. 10, on the payment card selection screen, a list of mobile payment cards is displayed in the form of a cover flow view.

[55] The user may select a mobile payment card from the mobile payment card list to use as a temporary payment card by sliding up the mobile payment card. FIG. 11 illustrates a screen when the user slides up the “ABC PREMIER” card to select as a temporary payment card, and FIG. 12 illustrates a resulting screen when the “ABC PREMIER” card is moved to the upper portion of the payment card selection screen by the user’s sliding-up operation.

[56] The user’s sliding-up operation is not necessarily performed from the position of the “ABC PREMIER” card shown in FIG. 10 to the position of the “ABC PREMIER” card shown in FIG. 12. An animation effect may be applied such that the “ABC PREMIER” card is automatically moved from the position of FIG. 10 to the position of FIG. 12 by a slight sliding-up operation.

[57] As described above, the “ABC PREMIER” card slid up by the user is set as a temporary payment card. In this case, when the mobile device is brought into contact with a mobile payment reader such as a Near Field Communication (NFC) reader of Point of Sale (POS), a payment is made by the “ABC PREMIER” card which is a temporary payment card.

[58] The payment by the temporary payment card should be made within a “payable time.” That is, when the payable time passes, the setting of the temporary payment card is reset and a payment is made by a main payment card.

[59] The remaining payable time is informed for the user as shown in FIG. 12. The payable time may be set/changed by the user through the above-described mobile payment card management screen or mobile wallet application.

[60] When the payable time passes, the slid up “ABC PREMIER” card is slid down and moves to the original position shown in FIG. 10. To let the user know that the setting of the temporary payment card is reset, the sliding-down process may be performed more slowly than the sliding-up process. Furthermore, an announcement to inform the reset of the setting of the temporary payment card may be outputted through visual information or voice/sound information, and may be outputted through a vibration.

[61] When the payment is made within the payable time, the setting of the temporary payment card is reset. This is to prevent double payment.

[62] When the user intentionally slides down the temporary payment card as shown in FIG. 13 even if the payable time still remains, the setting of the temporary payment card is reset.

[63] The payable time may be extended. For example, when the mobile device is shaken horizontally by the user more than three times before the payable time passes, the payable time may be set to be extended. The gesture of shaking the mobile device is merely an example and may be substituted with a gesture of a different pattern.

[64] To extend the payable time or induce rapid payment, the mobile device may be set to output an alarm when 3 seconds remain as a payable time. The alarm may output an announcement for informing that the reset of the setting of the temporary payment card is imminent not only through visual information or voice/sound information but also through a vibration.

[65] Hereinafter, a method for setting a temporary payment card according to another exemplary embodiment of the present disclosure will be explained with

reference to FIGs. 14 to 19.

[66] FIG. 14 is a view showing a mobile device which displays a payment card selection screen of a mobile wallet application, and FIG. 15 is a view illustrating a resulting screen when the “ABC PREMIER” card is slid up by the user and selected/set as a temporary payment card.

[67] In FIG. 15, “30 seconds” are informed as a remaining payable time. FIG. 16 illustrates the payment card selection screen after 10 seconds pass. As shown in FIG. 16, the “ABC PREMIER” card is slid down by 1/3 of the total distance by which the card has been slid up, and “20 seconds” are identified as a remaining payable time.

[68] FIG. 17 illustrates the payment card selection screen when 10 more seconds pass. Referring to FIG. 17, the “ABC PREMIER” card is slid down by 2/3 of the total distance by which the card has been slid up and “10 seconds” are identified as a remaining payable time.

[69] Referring to FIGs. 15 to 17, the mobile payment card slid up by the user, that is, the mobile payment card selected/set as the temporary payment card is slowly slid down as the payable time passes and moves to the original position. In this case, the slid-down distance is in reverse proportion to the remaining payable time.

[70] When the mobile payment card which is being slid down is slid up again by the user before the payable time passes as shown in FIG. 18, the payable time is extended as shown in FIG. 19.

[71] In the present exemplary embodiment, the payable time may be set to be in proportion to the distance slid up by the user. That is, as the distance by which the card is slid up by the user is longer, the payable time may be longer, and, as the distance by which the card is slid up by the user is shorter, the payable time may be shorter. In addition, this is equally applied when a temporary payment time is extended.

[72] Exemplary embodiments of the method for setting the temporary payment card have been described up to now.

[73] In the above-described exemplary embodiments, a temporary payment card is

selected by sliding up a mobile payment card. This is merely an example and variations are possible. That is, a different sliding direction may be set and the temporary payment card may be selected by other motions than the sliding motion.

[74] In addition, in the above-described exemplary embodiments, the mobile payment card returns to its original position and the setting of the temporary payment card is reset when the payable time passes. However, this is merely an example.

[75] For example, a visual effect making the mobile payment card disappear or explode and be scattered when the payable time passes may be provided. Furthermore, a visual effect making the mobile payment card gradually disappear or be scattered as the payable time passes may be provided.

[76] The technical idea of the present disclosure may be applied to a thing other than the mobile payment card as an object to be selected by the user in the above-described exemplary embodiments.

[77] For example, a list of mobile additional services (a mobile coupon, a mobile point, a mobile membership, etc.) issued to the mobile device may be displayed, and a mobile additional service slid up by the user from the mobile additional services listed in the list may be set to be used.

[78] In this case, a usable time within which the mobile additional service can be used may be limited, and, when the usable time passes, the mobile additional service may be set to be disabled and slid down.

[79] According to another exemplary embodiment, detailed information of the mobile additional service slid up by the user may be displayed. The detailed information of the mobile additional service may include 1) a mobile coupon number, a bar code, a QR code, etc. in the case of the mobile coupon, 2) a mobile point card number, a mobile point score, etc. in the case of the mobile point, and 3) a mobile membership number, a membership ID, and etc. in the case of the mobile membership.

[80] In this case, the usable time within which the mobile additional service can be used may be limited, and, the detailed information of the service may be set to disappear

when the usable time passes.

[81] FIG. 20 is a block diagram showing a mobile device according to another exemplary embodiment of the present disclosure. The mobile device 100 according to the present exemplary embodiment includes a touch screen 110, a wireless communication unit 120, a processor 130, an NFC module 140, a memory 150, and an SE 160, as shown in FIG. 20.

[82] The touch screen 110 functions as a display for displaying screens shown in FIGs. 1 to 19, and also functions as a user inputting means for receiving a user operation such as touching, dragging and dropping, sliding, etc.

[83] The wireless communication unit 120 is a means for mobile communication and wireless networking, and the NFC module 140 is a module for transmitting payment information and mobile additional service information by communicating with an NFC reader.

[84] The memory 150 is a storage medium in which the above-described mobile wallet application is installed, and the SE 160 is a storage medium in which the above-described mobile payment card, the mobile additional service, etc. are issued and stored, and may be implemented by using a Universal IC card (UICC), an embedded-SE (e-SE), a Secure Digital (SD) card, etc. The SE 160 may include the NFC module 140.

[85] The processor 130 displays a list of mobile payment cards on the touch screen 110, and sets a mobile payment card selected by the user through the touch screen 110 as a temporary payment card, and resets the setting of the temporary payment card when a payable time passes.

[86] In addition, the processor 130 may display a remaining payable time and perform all interactions shown in FIGs. 1 to 19, such as resetting the setting of the temporary payment card or extending the payable time, according to a user command.

[87] The technical idea of the present disclosure may be applied to a computer-readable recording medium which records a computer program for performing the functions of the apparatus and method according to exemplary embodiments. In addition,

the technical idea according to various exemplary embodiments of the present disclosure may be implemented in the form of a computer-readable code which is recorded on a computer-readable recording medium. The computer-readable recording medium may include any data storage device which can be read by a computer and can store data. For example, the computer-readable recording medium may include a Read Only Memory (ROM), a Random Access Memory (RAM), a CD-ROM, a magnetic tape, a floppy disk, an optical disk, a hard disk drive, and etc. In addition, a code or a program which is stored in a computer-readable recording medium and can be read by a computer may be transmitted through a network connected between computers.

[88] The foregoing exemplary embodiments and advantages are merely exemplary and are not to be construed as limiting the present inventive concept. The exemplary embodiments can be readily applied to other types of apparatuses. Also, the description of the exemplary embodiments is intended to be illustrative, and not to limit the scope of the claims, and many alternatives, modifications, and variations will be apparent to those skilled in the art.

CLAIMS

1. A method for setting a temporary payment card, comprising:
displaying a list of mobile payment cards;
setting, as a temporary payment card, a mobile payment card which is moved by a user from among the mobile payment card listed in the list; and
resetting the setting of the temporary payment card when a payable time passes.
2. The method of claim 1, further comprising, when the moved mobile payment card is moved to an original position by the user, resetting the setting of the temporary payment card.
3. The method of claim 1, further comprising displaying a remaining payable time.
4. The method of claim 1, further comprising, when a payment is made within the payable time, resetting the setting of the temporary payment card.
5. The method of claim 1, further comprising, when the payable time passes, moving the mobile payment card moved by the user to an original position.
6. The method of claim 1, further comprising gradually moving the mobile payment card moved by the user to an original position according to a remaining payable time.

7. 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.

8. The method of claim 7, wherein the movement by the user in the setting operation is performed in a same method as the movement by the user in the extending operation.

9. 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.

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

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

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

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

14. The method of claim 13, further comprising, when a usable time passes, setting the additional service to be disabled.

15. A mobile device comprising:

a touch screen configured to display a list of mobile payment cards; and

a processor configured to set, as a temporary payment card, a mobile payment card which is moved by a user from among the mobile payment cards listed in the list displayed on the touch screen, and reset the setting of the temporary payment card when a payable time passes.

ABSTRACT

A method for setting a temporary payment card and a mobile device applying the same are provided. The method includes: displaying a list of mobile payment cards; setting, as a temporary payment card, a mobile payment card which is moved by a user from among the mobile payment card listed in the list; and resetting the setting of the temporary payment card when a payable time passes. Accordingly, the temporary payment card can be changed more easily and swiftly.

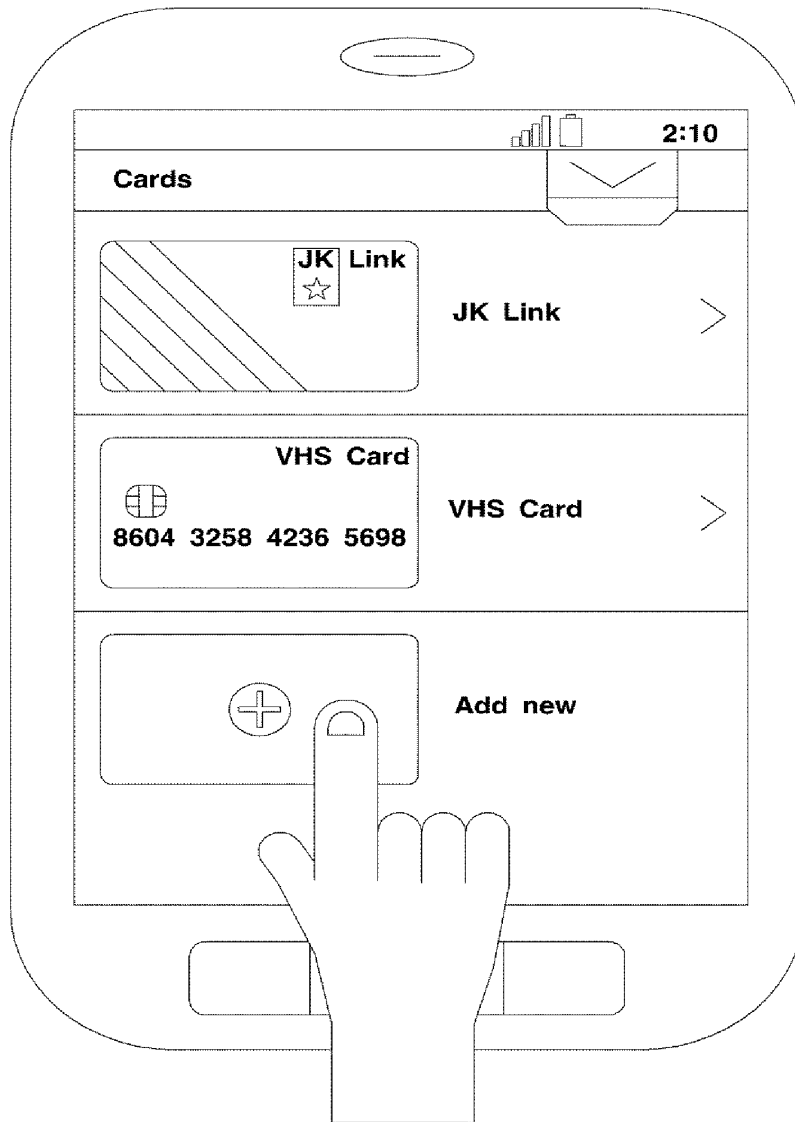


FIG. 1

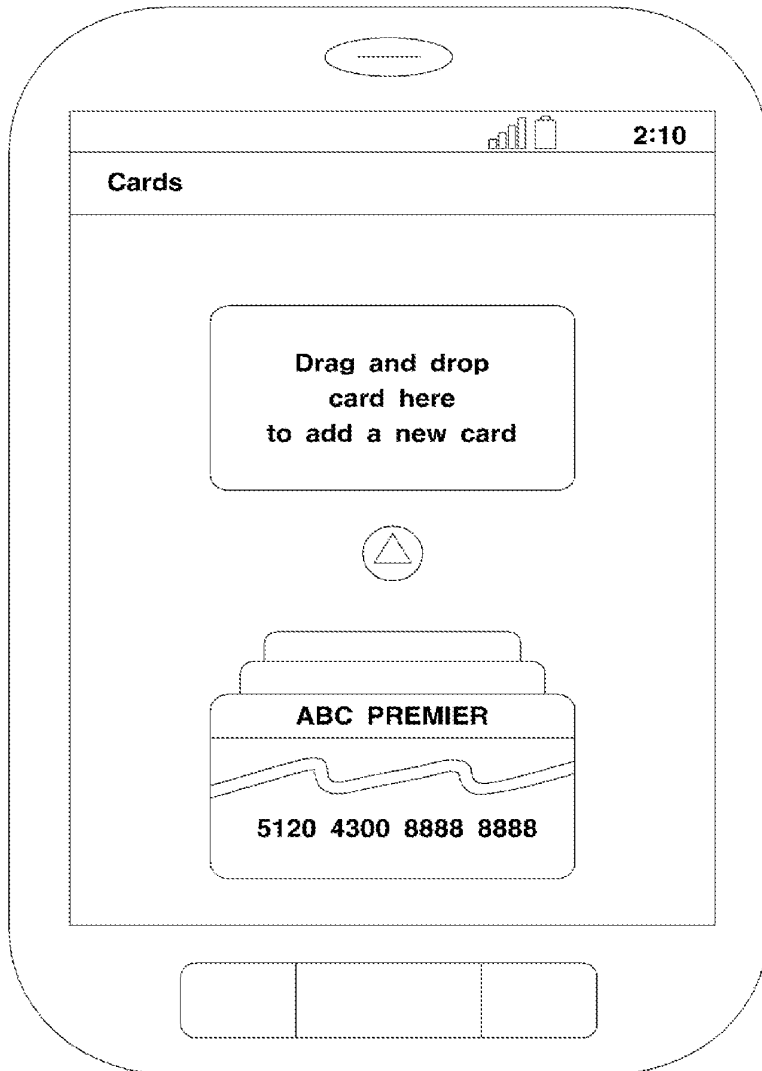


FIG. 2

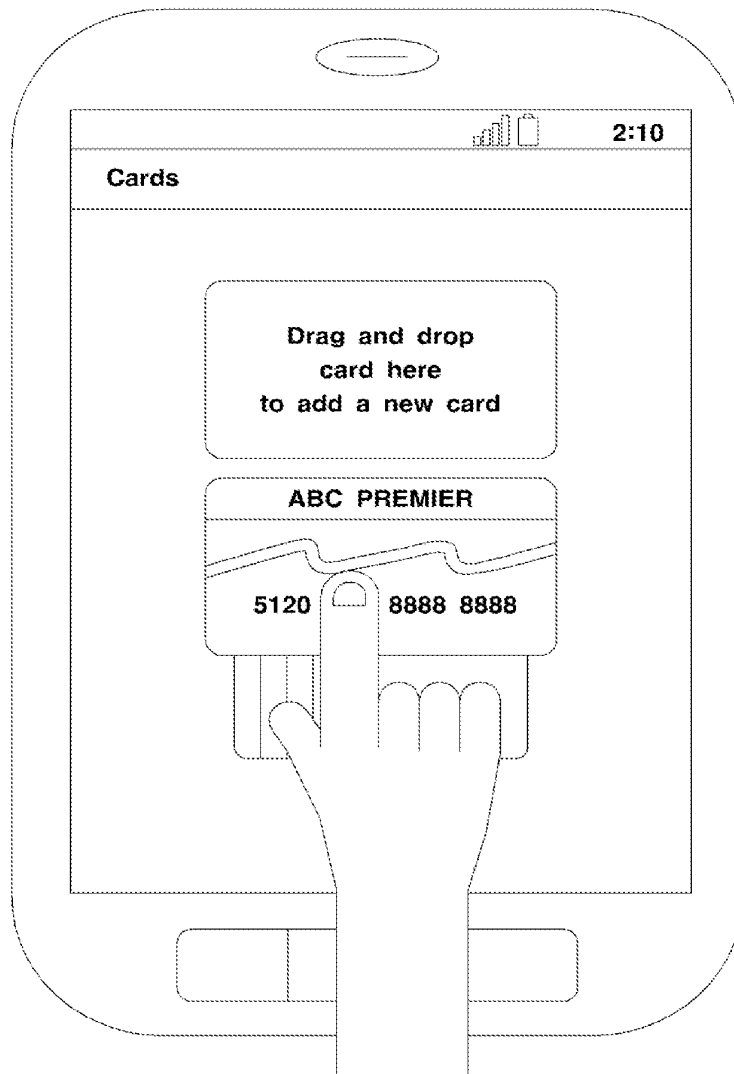


FIG. 3

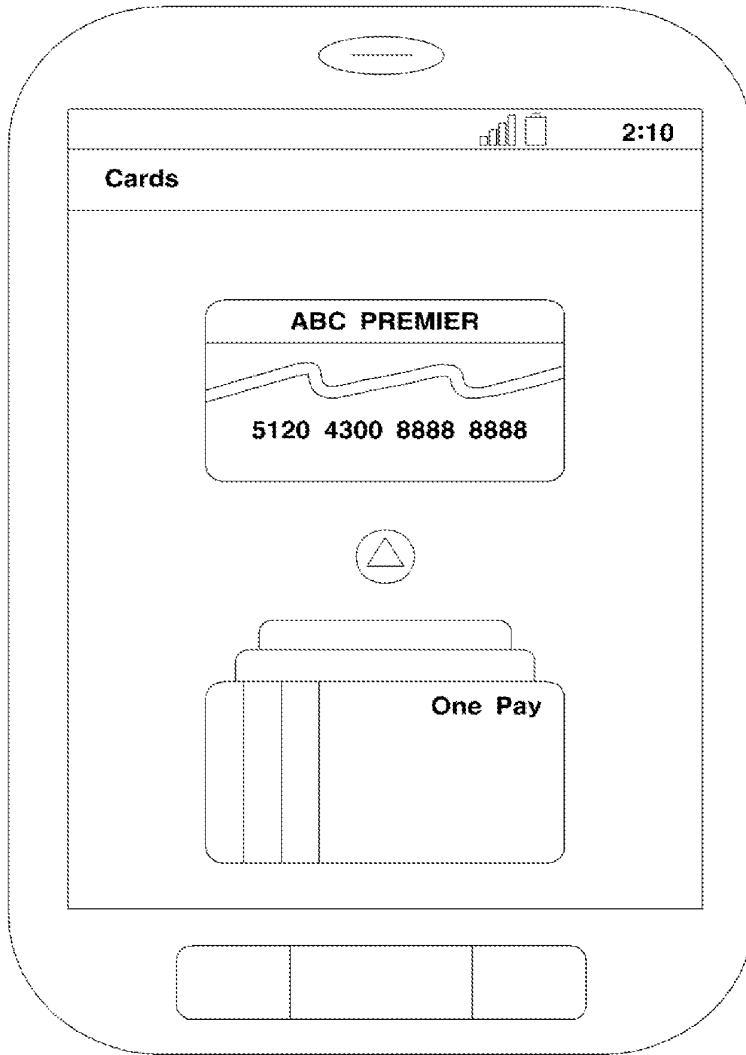


FIG. 4

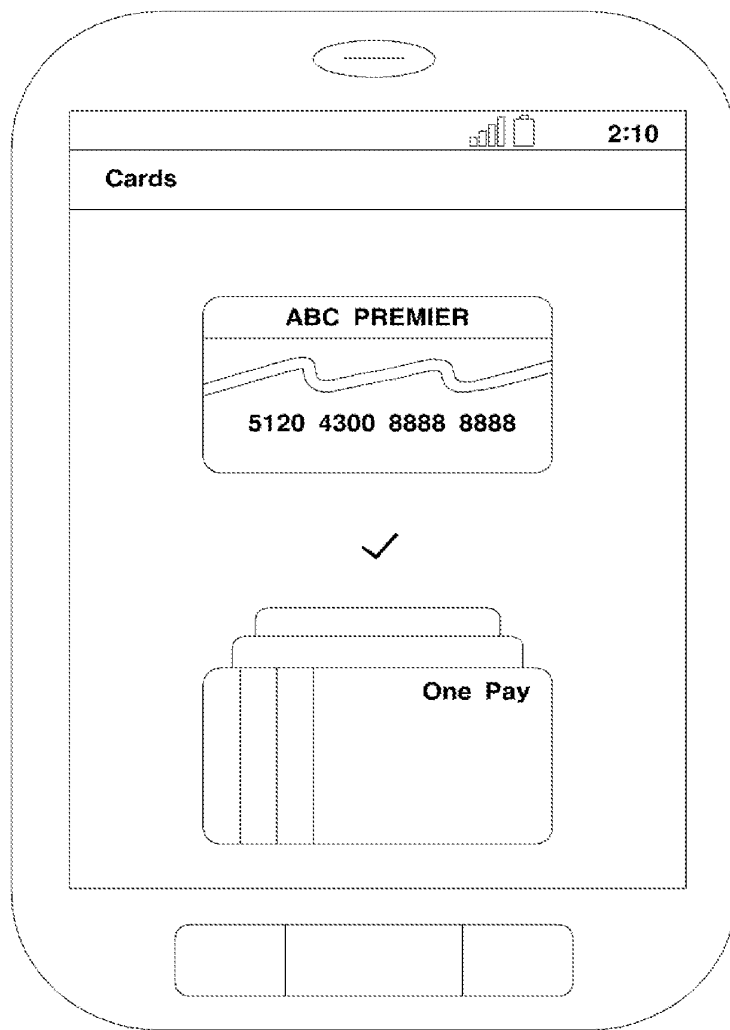


FIG. 5

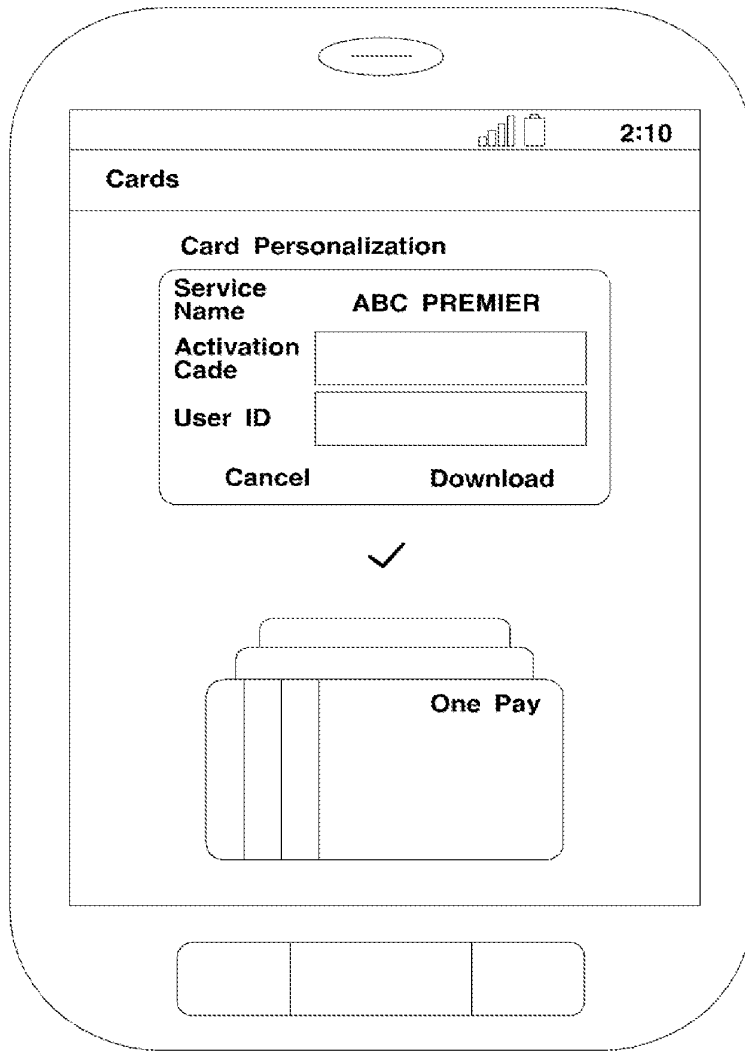


FIG. 6

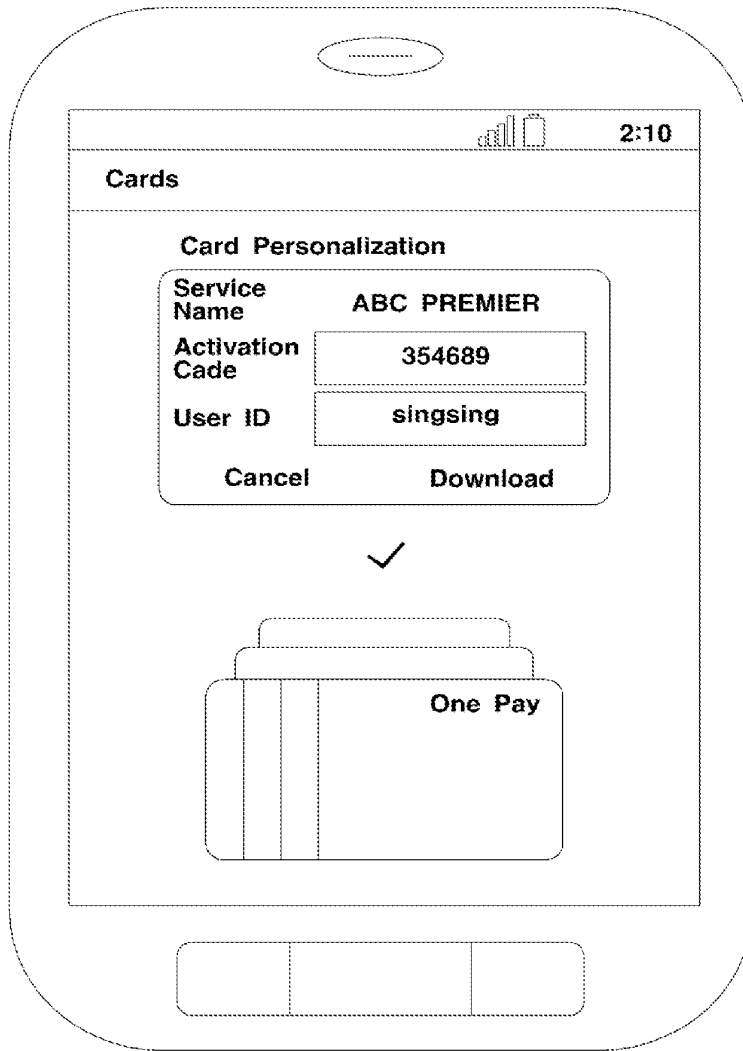


FIG. 7

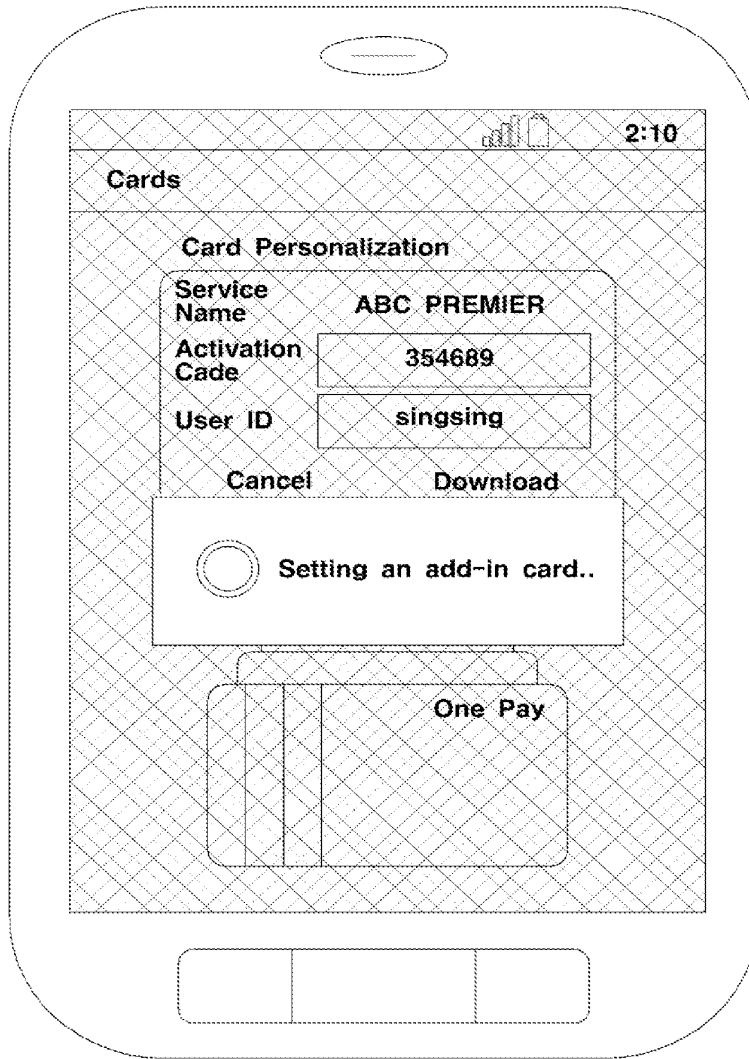


FIG. 8

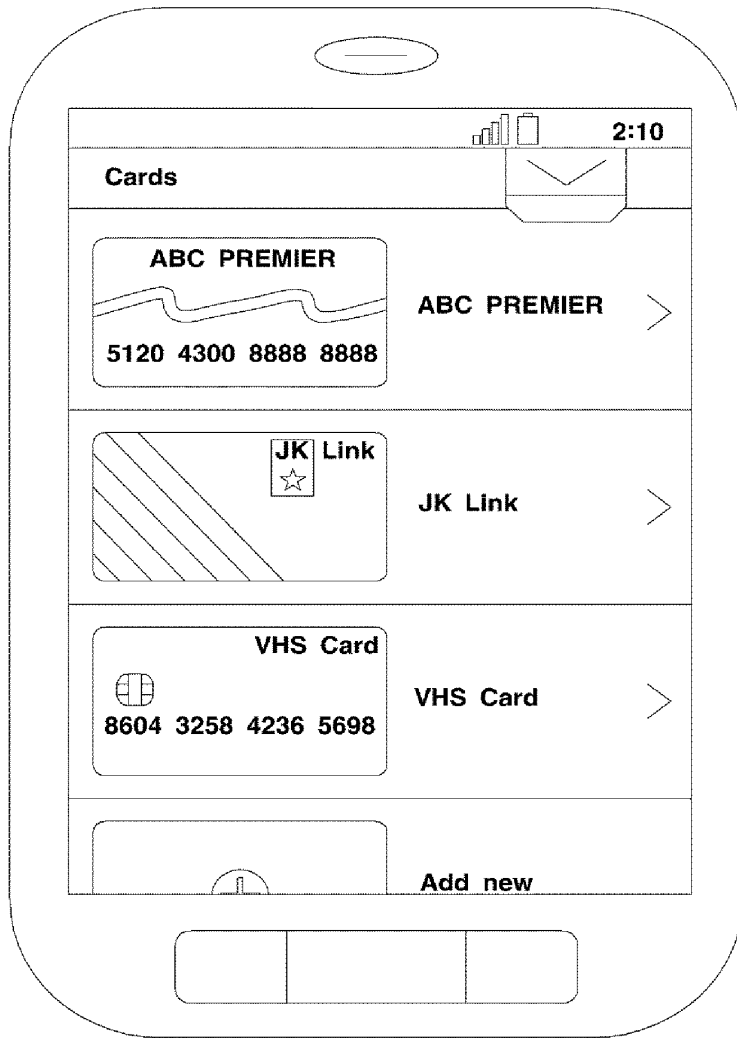


FIG. 9

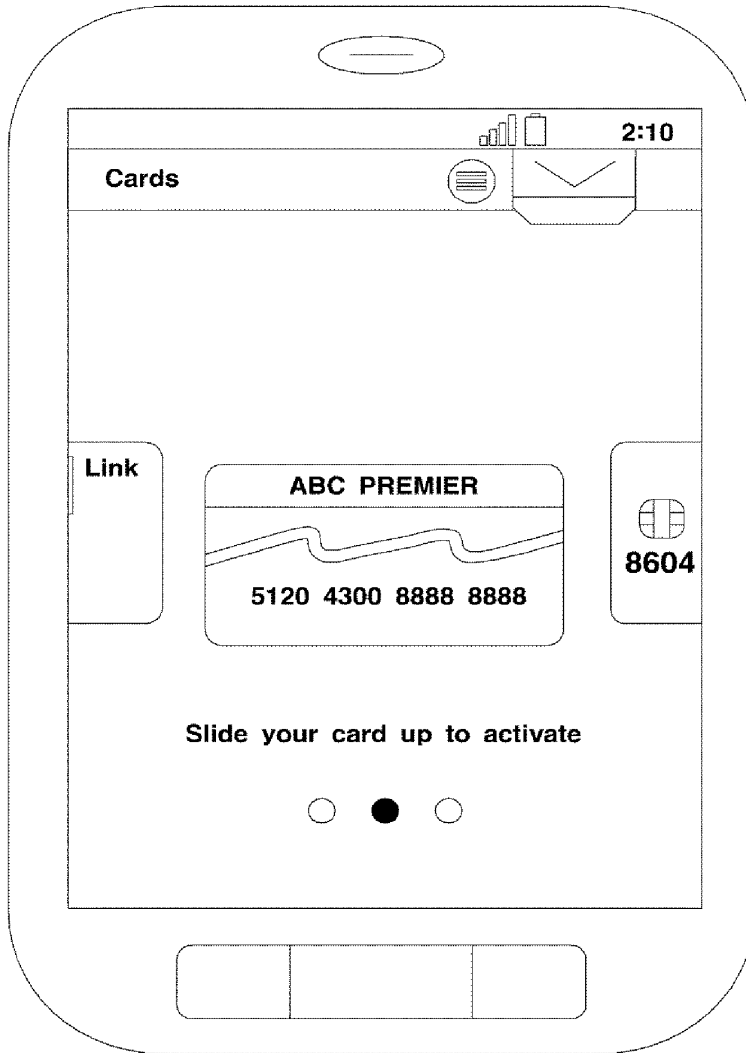


FIG. 10

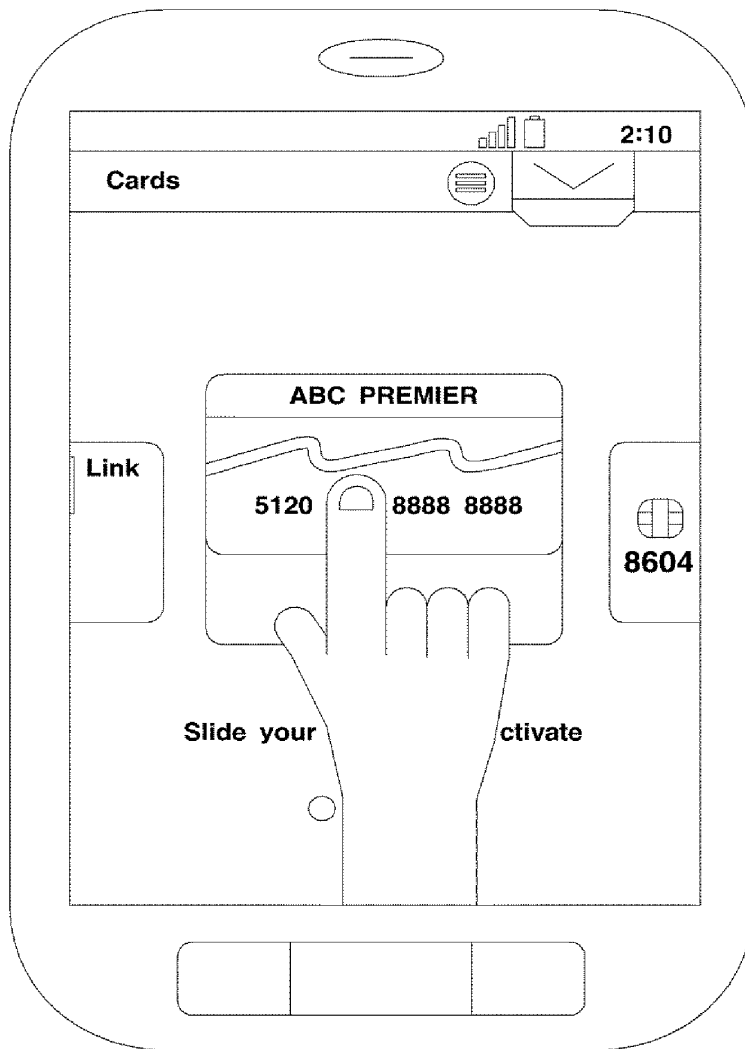


FIG. 11

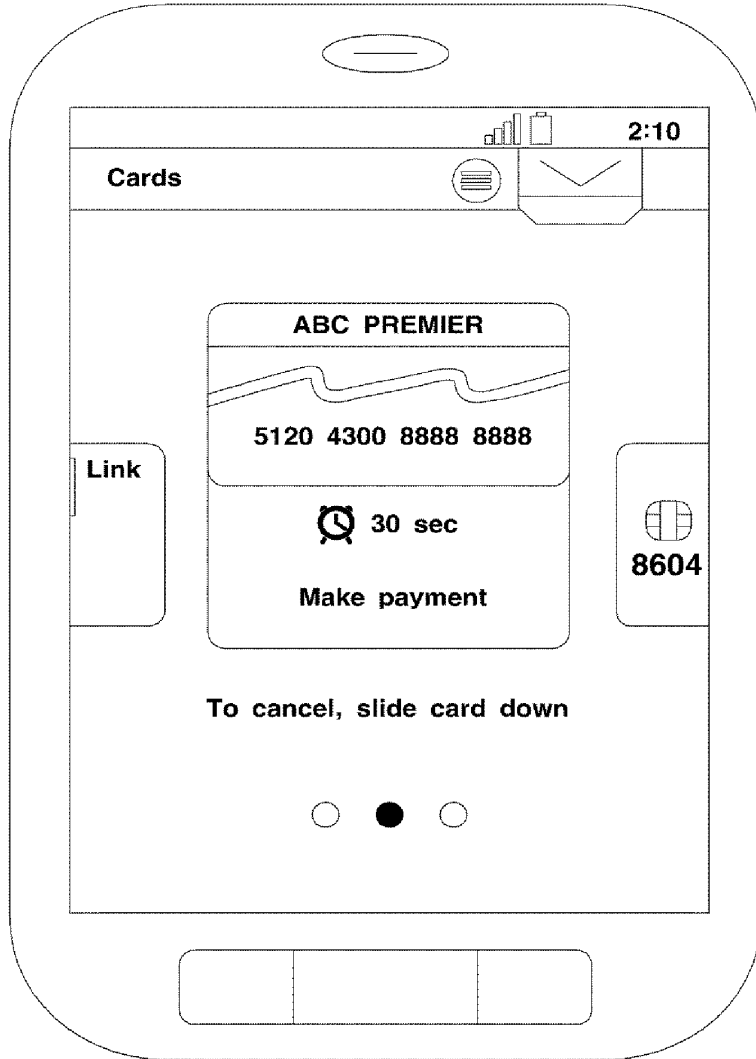


FIG. 12

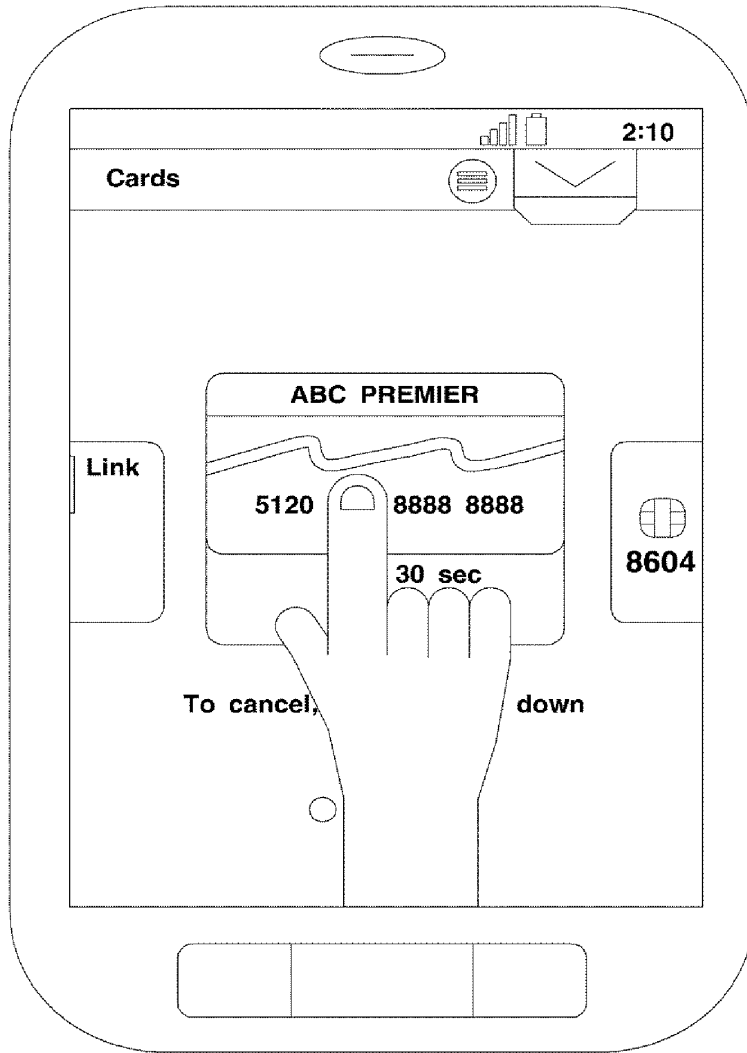


FIG. 13

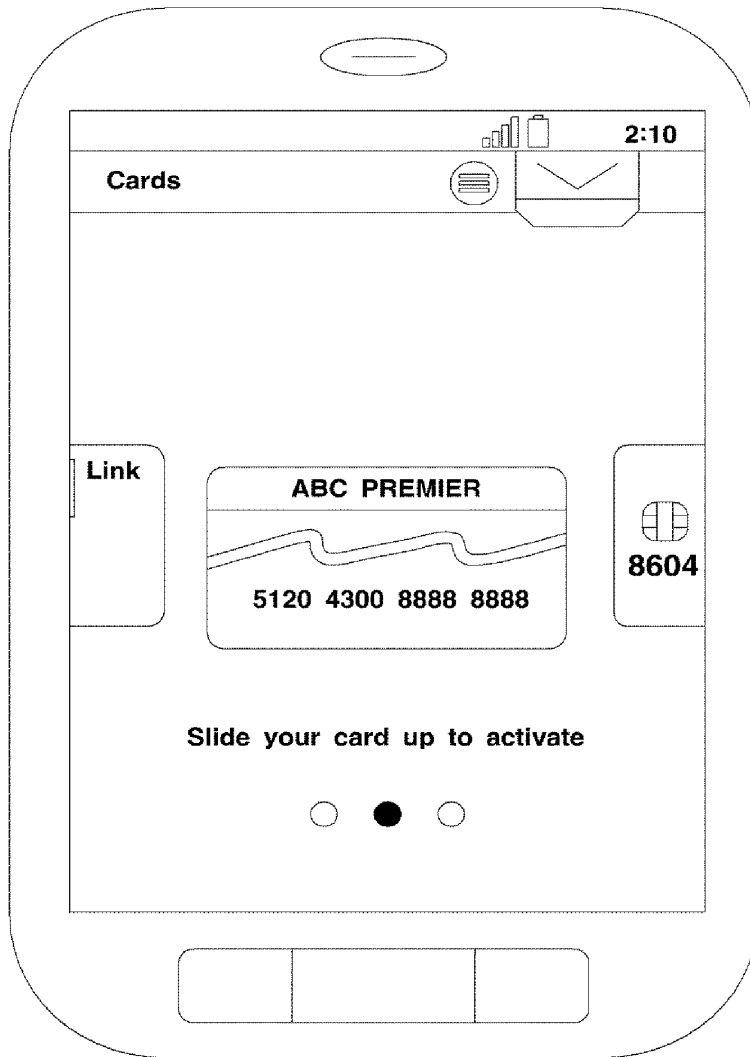


FIG. 14

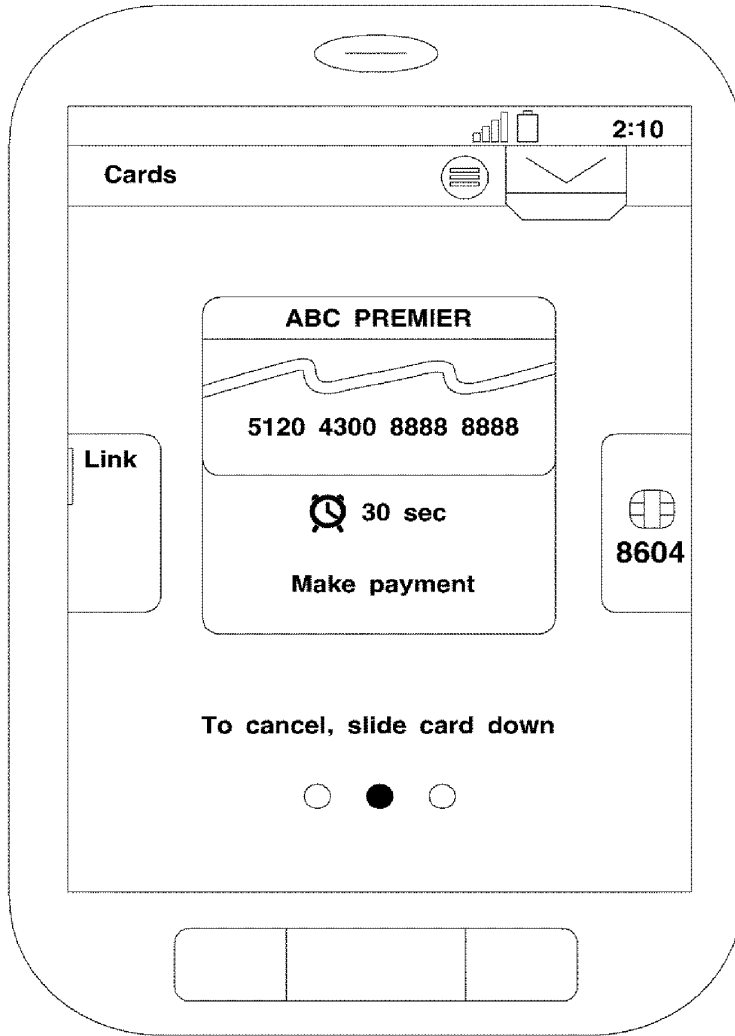


FIG. 15

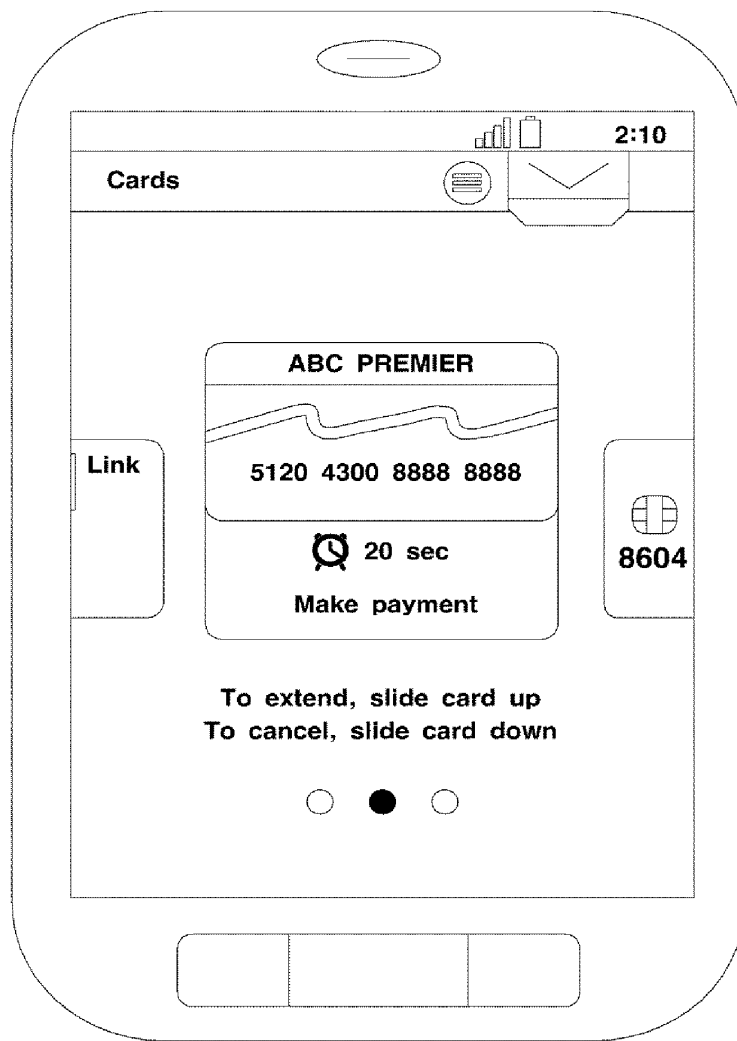


FIG. 16

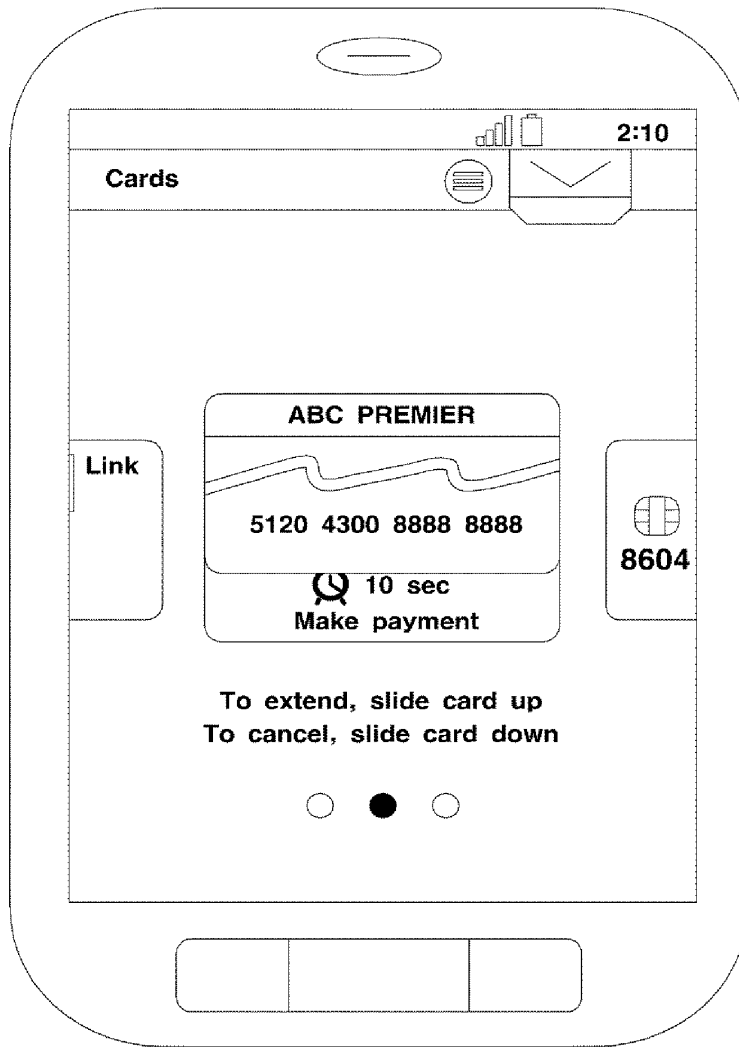


FIG. 17

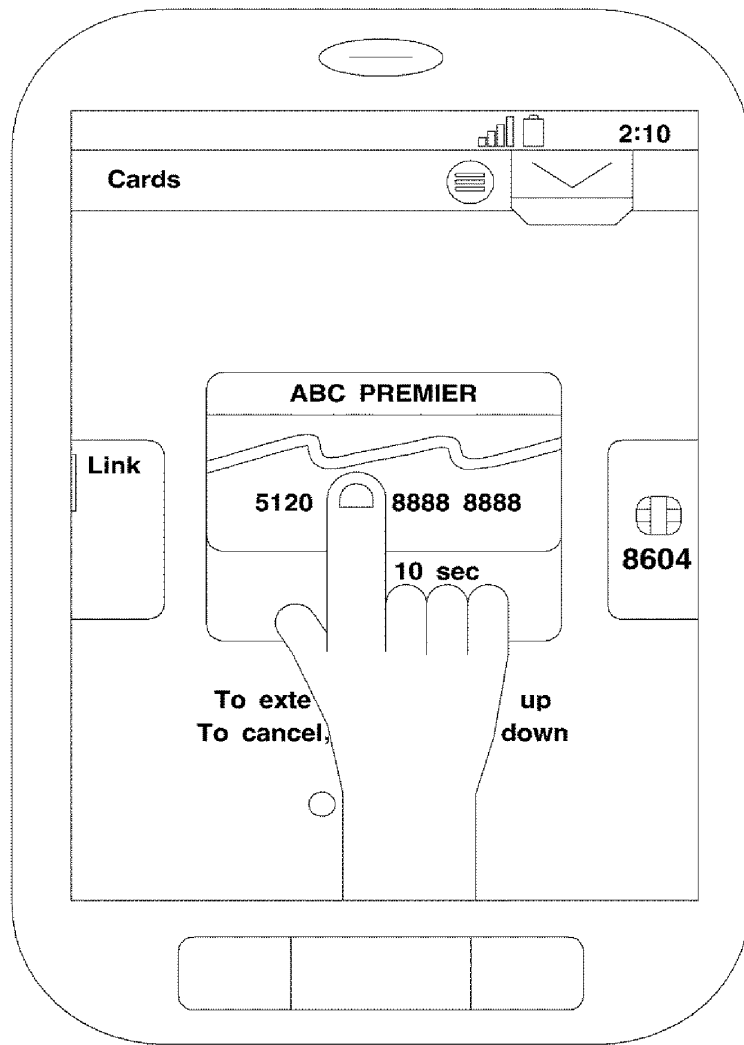


FIG. 18

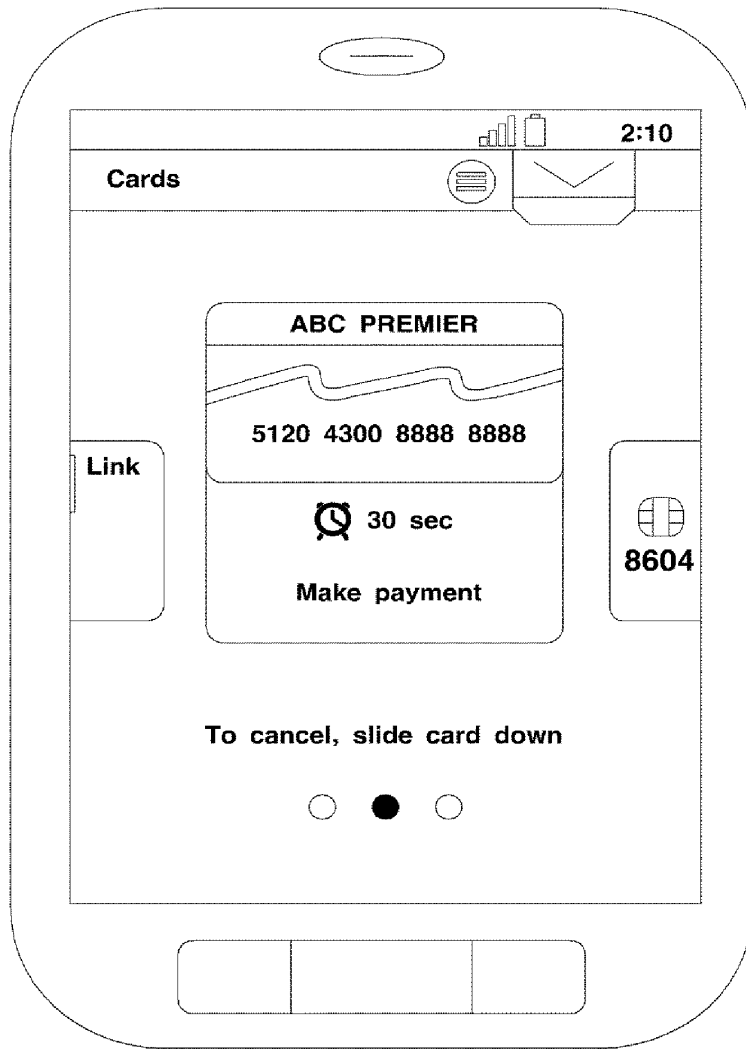


FIG. 19

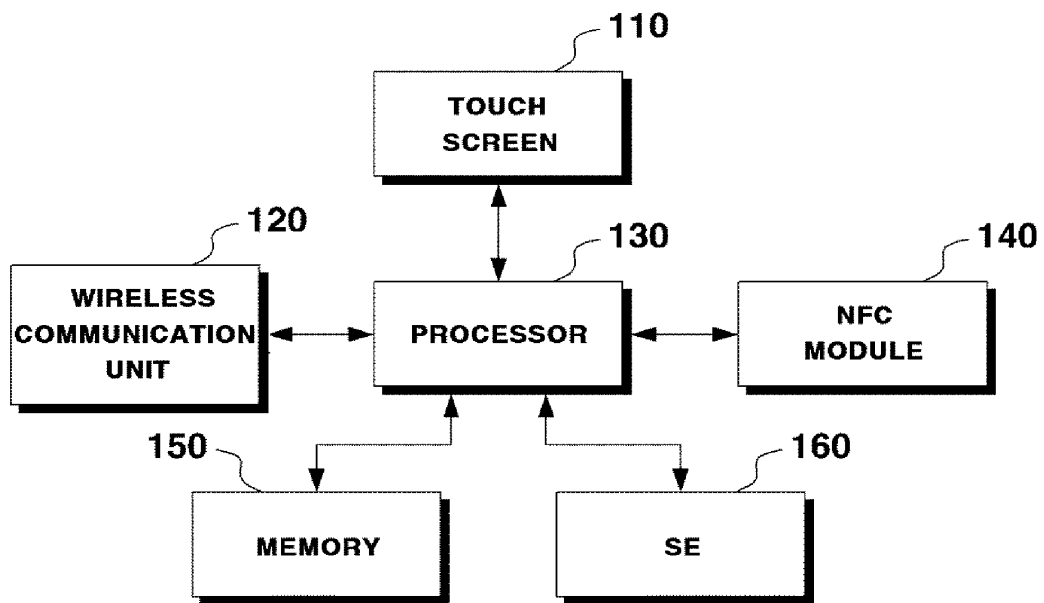


FIG. 20

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

특허 출원 관련 양도 및 선언 (연방규칙집 제37조 1.63항)

Korean Language Assignment with Declaration

이하 양도인으로 지칭되는 하기 서명 발명자인 본인(들)은 아래에 명시된 출원에서 서술한 특정 개선을 발명하였으므로 그리고

에 소재한 (양수인)는(은) 출원 및 발명의 그리고 이에 따라 획득될 일체의 미국 특허에 대한 권리, 소유권 및 이권을 획득하기를 원하므로,

이제 대가를 위한 그 수령을 인정합니다.

상기 양도인인 본인(들)은 상기 명칭의 양수인, 그 승계자 및 그 양수인에게 모든 본항과 그 연속을 포함하여 미국 용으로 공개된 출원과 발명 그리고 그에 대해 승인될 수 있는 미국의 모든 특허증서의 미합중국 코드 제 35장 제119항에 의거한 우선권 청구권을 포함한 모든 그 개발행에 대한 전체 권리, 소유권 및 이권을 판매, 양도 및 이전하며 그리고 본인(들)은 출원서에 제시된 발명에 대해 승인된 일체의 특허증서를 양수인, 그 승계자 또는 그 양수인에게 할당하도록 미국 특허청장에게 요청하는 바이며 또한 본인(들)은 양수인의 요청할 경우 미국 출원과 관련하여 양수인이 필요하다고 생각하는 모든 서류를 더 이상의 보수 없이 서명하여 제공할 것입니다

(공인은 기록을 위해 요구되지는 않지만 미합중국 코드 제 35장 제261항에 의거 서명발명에 대한 일종의 증거입니다)

본인은 아래 명칭의 발명자로서 다음과 같이 선언합니다.

본 양도 및 선언서는 다음 사항을 위한 것입니다.

- 일부 출원 또는
- 미합중국 출원 또는 PCT 국제출원 번호: _____ 출원일: _____

본 출원의 제목은 다음과 같습니다:

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, MOZIDO CORFIRE - KOREA, LTD. of (Jeongjeong) 9, Seongnam-daero 343beom-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 463-847, Republic of Korea, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by me assignee in connection with the United States application when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below named inventor, I hereby declare that:

This assignment with declaration is directed to:

- The attached application, or
- United States Application or PCT International Application Number PCT/FR2013/007775 filed on August 29, 2013.

The application is entitled:

METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME

Korean Language Assignment with Declaration

위에 표시된 출원은 본인이 신청하였거나 또는 신청하도록 허가를 받았습니니다.

본인은, 본인이 본 출원에서 청구된 발명의 원 발명자 또는 원 공동 발명자라고 믿습니다.

본인은 본 양도 및 선언서 제출과 관련된 출원의 내용을 검토하였으며 아울러 이해합니다.

본인은 연방 규정 코드 제 37 장 제 1.56 항에 규정된 바에 따라, 특허성의 판단에 중요한 본인이 아는 모든 정보를 특허청에 공개할 의무가 있음을 알고 있습니다.

본 양도 및 선언서 내에 의도적 허위 진술이 있을 경우 미합중국 코드 제 18 장의 1001 항에 의거 벌금이나 5년 이하의 징역 또는 두 가지 처벌을 모두 받을 수 있음을 인정합니다.

해당 관청의 특허출원 공개 허용 권한

이 칸에 표시한 경우, 하기의 서명자는 상기 언급된 출원에 대해 우선권을 주장하는 외국 특허청구 사항이 출원되어 있는 유럽특허청(EPO), 일본특허청(JPO), 한국특허청(KIPO), 세계지적재산권기구(WIPO) 및 기타 특허청들에게 상기 언급된 특허출원 정보를 공개할지 여부를 결정할 권한을 미국특허청(USPTO)에 허여합니다. 연방규정 코드 제 37 장 제 1.14(c)항과 (b)항을 참조하십시오. 만약 상기 출원자가 상기 언급된 출원에 대해 우선권을 주장하는 외국 특허청구 사항이 출원되어 있는 EPO, JPO, KIPO, 또는 기타 특허청들이 본 특허출원 내용을 열람하는 것을 원하지 않는다면 이 칸에 표시하지 않습니다.

연방규정 코드 제 37 장 제 1.14(b)(3)항에 따라, 다음의 경우에 한해 출원된 내용의 사본을 열람할 수 있습니다: 1) 상기 언급된 특허출원, 2) 미합중국 코드 제 35 장 119(a)-(d)항에 따라 상기 언급된 특허출원이 우선권을 주장하는 대상인 기타 외국 특허출원으로, 그 외국 특허출원 사본이 연방규정 코드 제 37 장 제 1.55 항의 사본 증명 요건에 부합되며, 상기 언급된 특허출원에 이미 출원되어 있는 경우, 3) 상기 언급된 특허출원이 부수적인 이익을 주장하고자 하는 대상인 기타 미국 특허출원.

연방규정 코드 제 37 장 제 1.14(c)항에 따라, "해당관청의 특허출원 공개 허용 권한" 서류 제출 일자에 관한 정보를 입수할 수 있습니다.

The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Authorization To Permit Access To Application by Participating Office


If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (b). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

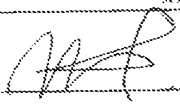
In accordance with 37 CFR 1.14(b)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR §1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature 
Date 8/30/2012

NAME OF SOLE OR FIRST INVENTOR: 단독 혹은 최초 발명자의 성명	
Given Name (first and middle [if any]) 이름(성씨는 제외)	Family Name or Surname 성(姓)
Min Hwan	;BON
Inventor's signature 발명자의 서명	Date 일자
	May 29th, 2015
Residence: 거주지: Gwangju-si, Republic of Korea	
Mailing Address: 우편 주소: 675-6, Binhyeon-ri, Opu-eup, Gwangju-si, Gyeonggi-do 464-925, Republic of Korea	
[Page 3]	

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q220066

Min Hwan JEON

Appln. No.: National Stage of PCT/KR2013/007775

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: May 28, 2015

Examiner: Not Yet Assigned

For: METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE
APPLYING THE SAME

PRELIMINARY AMENDMENT

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Prior to examination, please amend the above-identified application as follows on the accompanying pages.

TABLE OF CONTENTS

AMENDMENTS TO THE SPECIFICATION.....2

REMARKS3

AMENDMENTS TO THE SPECIFICATION

Please replace the present title with the following amended title:

~~METHOD FOR SETTING TEMPORARY PAYMENT CARD, AND MOBILE
DEVICE APPLYING SAME~~

METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE
APPLYING THE SAME

Amend the specification by adding before the first line the sentence:

CROSS REFERENCE TO RELATED APPLICATIONS

This is a National Stage of International Application No. PCT/KR2013/007775 filed August 29, 2013, claiming priority based on Korean Patent Application No. 10-2012-0135940 filed November 28, 2012, the contents of all of which are incorporated herein by reference in their entirety.

PRELIMINARY AMENDMENT
Appln. No.: National Stage of PCT/KR2013/007775

Attorney Docket No.: Q220066

REMARKS

Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,

/Chidambaram.S.Iyer/43355

Peter A. McKenna
Registration No. 38,551

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: May 28, 2015

PCT 출원서

출력(전자적 형태가 원본)

0	수리관청 전용	
0-1	국제출원번호	PCT/KR2013/007775
0-2	국제출원일자	2013년 08월 29일 (29.08.2013)
0-3	수리관청 명칭 및 "PCT 국제출원"	RO/KR
0-4	서식 PCT/RO/101 - PCT 출원서	
0-4-1	우측에 기재된 바와 같이 작성되었다.	PCT-SAFE 버전 3.51.059.235 MT/FOP 20130401/0.20.5.21
0-5	신청 아래 서명인은 본 국제 출원서가 특허협력조약에 의해 처리될 것을 청구합니다.	
0-6	출원인이 지정한 수리관청	대한민국 특허청 (RO/KR)
0-7	출원인 또는 대리인의 서류참조기호	OHP0054PCT
I	발명의 명칭	임시 결제카드 설정 방법 및 이를 적용한 모바일 기기
II	출원인	
II-1	이 사람은	오직 출원인 (applicant only)
II-2	우측 지정국에 관한 출원인	모든 지정국 (all designated States)
II-4ko	성명	에스케이씨앤씨 주식회사
II-4en	Name:	SK C&C CO., LTD.
II-5ko	주소	대한민국 463-844 경기도 성남시 분당구 정자동 25-1번지 에스케이 유- 타워
II-5en	Address:	SK u- Tower, 25-1 Jeongja-dong, Bundang-gu Seongnam-si Gyeonggi-do 463-844 Republic of Korea
II-6	국적	대한민국 KR
II-7	거주국	대한민국 KR
II-8	전화번호	82-2-6400-5359
II-9	팩스번호	82-2-6400-0273
II-10	이메일 주소	cjn99@sk.com
II-10(a)	이메일 사용동의 수리관청, 국제조사기관, 국제사무국, 국제예비심사기관이 필요 시 이 이메일 주소를 사용하여 이 국제 출원과 관련하여 발행된 통지서를 송부할 것에 동의한다.	서면 통지서에 앞서 선람용 사본 송부
II-11	출원인 코드	1-1999-029895-8

PCT 출원서

출력(전자적 형태가 원본)

III-1 III-1-1 III-1-3 III-1-4ko III-1-4en III-1-5ko III-1-5en	출원인 및/또는 발명자 이 사람은 우측 지정국에 관한 발명자 성명 Name (LAST, First): 주소 Address:	오직 발명자 (inventor only) 전민환 JEON, Min Hwan 대한민국 464-925 경기도 광주시 오포읍 신현리 675-6 675-6, Sinhyeon-ri, Opo-eup Gwangju-si Gyeonggi-do 464-925 Republic of Korea
IV-1 IV-1-1ko IV-1-1en IV-1-2ko IV-1-2en IV-1-3 IV-1-4 IV-1-5 IV-1-5(a) IV-1-6	대리인 또는 대표자 아래에 기재된 자는 관할 국제기관에 대하여 우측에 표시된 자격으로 출원인을 대리하는 것으로 선임되었다. 성명 Name (LAST, First): 주소 Address: 전화번호 팩스번호 이메일 주소 이메일 사용동의 수리관청, 국제조사기관, 국제사무국, 국제예비심사기관이 필요 시 이 이메일 주소를 사용하여 이 국제 출원과 관련하여 발행된 통지서를 송부할 것에 동의한다. 대리인 코드	대리인 한지나 HAN, Gee Na 대한민국 135-854 서울시 강남구 도곡동 517-18 경빈빌딩 6층 6F., Kyungbin Bldg., 517-18 Dogok-dong Gangnam-gu Seoul 135-854 Republic of Korea 82-2-2051-4701 82-2-2051-4703 gnhan@hanpatent.co.kr 서면 통지서에 앞서 선람용 사본 송부 9-2005-000113-6
IV-2 IV-2-1ko IV-2-1en	추가 대리인 성명 Name(s)	최초 기재된 대리인과 동일한 주소를 갖는 새로운 대리인(들) 양, 성환(9-2005-000109-7) YANG, Sung Hwan(9-2005-000109-7)
V	지정국	
V-1	본 출원서의 제출로, 규칙 4.9(a)에 따라, 부여될 수 있는 모든 종류의 권리 보호를 위하여, 그리고 해당하는 경우 지역특허 및 국내특허 모두를 위하여 당해 국제출원일에 PCT에 기속되는 모든 계약국이 지정된다.	
V-2	V-2란은 출원서 제출시 또는 규칙 26의2.1에 의해 그 이후 출원서 제6기재란에 위 특정 관련 계약국의 국내 선출원에 대한 우선권주장이 포함되어 있을 경우 당해 계약국의 국내법에 의해 해당 국내 선출원의 효력이 상실되는 것을 방지하기 위한 목적으로 당해 계약국의 지정을 제외하는 데에만 사용될 수 있다 (지정 제외시 이의 취소 불가능).	KR

PCT 출원서

출력(전자적 형태가 원본)

VI-1	신국내출원에 대한 우선권 주장		
VI-1-1	출원일	2012년 11월 28일 (28.11.2012)	
VI-1-2	출원번호	10-2012-0135940	
VI-1-3	국가	KR	
VI-2	우선권서류 신청 수리관청에 대하여 위에 명시된 선출원의 인증등본을 준비하여 국제사무국에 송부하여 줄 것을 신청한다.	VI-1	
VI-3	인용에 의한 보완 조약 제11조(1)(iii)(d) 또는 (e)에서 규정하는 국제출원의 요소, 또는 규칙 20.5(a)에서 규정하는 명세서, 청구 범위 또는 도면의 일부가 본 국제출원에는 포함되어 있지 않지만 조약 제11조(1)(iii) 규정의 요소 중 하나 이상이 수리관청에 최초로 접수된 날에 우선권주장의 기초가 된 선출원에 완전히 포함되어 있는 경우, 그 요소 또는 부분은 규칙 20.6 규정에 의한 확인을 조건으로, 규칙 20.6의 규정과 관련하여 본 국제출원에 있어서 인용에 의해 보완된다.		
VII-1	국제조사기관(ISA) 선택	대한민국 특허청 (ISA/KR)	
VIII	선언서	선언서 개수	
VIII-1	발명자의 친원에 관한 선언	-	
VIII-2	국제출원일에 특허출원 및 특허를 받을 수 있는 출원인의 자격에 관한 선언	-	
VIII-3	국제출원일에 선출원의 우선권을 주장할 수 있는 출원인의 자격에 관한 선언	-	
VIII-4	발명자 선언(미국에 대한 지정의 경우에 한함)	-	
VIII-5	신규성을 해치지 아니하는 개시 또는 신규성 상실의 예외에 관한 선언	-	
IX	체크 리스트	용지 수	전자적 파일 첨부
IX-1	출원서(선언서 포함)	4	✓
IX-2	명세서	8	✓
IX-3	청구범위	2	✓
IX-4	요약서	1	✓
IX-5	도면	19	✓
IX-7	용지매수 소개	34	
	첨부 항목	서면 첨부	전자적 파일 첨부
IX-8	수수료 계산 용지	-	✓
IX-9	개별위임장 원본	-	✓
IX-18	PCT-SAFE 전자출원 매체	-	-
IX-20	요약서에 수반되어야 할 도면 번호	12	
IX-21	국제출원의 출원 언어	한국어	
X-1	출원인, 대리인 또는 대표자의 서명 또는 날인	(PKCS7 전자서명)	
X-1-1	성명	한 지나	
X-1-2	서명인의 성명		
X-1-3	권한 (출원서를 통해 서명자의 자격이 명백하지 않은 경우에는 그 자격도 표시)		

수리관청 전용

10-1	국제출원으로 제출된 서류의 실제 접수일	2013년 08월 29일 (29.08.2013)
10-2	도면	
10-2-1	접수	
10-2-2	미접수	
10-3	국제출원으로 제출된 서류를 완성하는 서류 또는 도면의 추후 기간내 제출에 따른 정정된 실제 접수일	
10-4	PCT 제11조(2)에 따라 제출이 요구된 보완서로서 기간내 제출된 보완서의 접수일	
10-5	국제조사기관(ISA)	ISA/KR
10-6	조사료 납부시까지 지연된 조사용 사본의 송부	

국제 사무국 전용

11-1	국제 사무국의 기록원본 접수일	
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ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

SECOND AND SUPPLEMENTARY NOTICE
INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION (TO DESIGNATED OFFICES
WHICH APPLY THE 30 MONTH TIME
LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

HAN, Gee Na
6F., Kyungbin Bldg., 517-18
Dogok-dong, Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (<i>day/month/year</i>) 02 April 2015 (02.04.2015)		IMPORTANT NOTICE	
Applicant's or agent's file reference OHP0054PCT			
International application No. PCT/KR2013/007775	International filing date (<i>day/month/year</i>) 29 August 2013 (29.08.2013)	Priority date (<i>day/month/year</i>) 28 November 2012 (28.11.2012)	
Applicant SK C&C CO., LTD.			

1. **ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does not apply**, please see Form PCT/IB/308(First Notice) issued previously.

2. Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
05 June 2014 (05.06.2014)

AZ, BY, CN, EP, HU, KG, KP, MD, MK, MZ, NA, NG, PG, RU, SY, TM

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

AE, AG, AL, AM, AO, AP, AT, AU, BA, BB, BG, BH, BN, BR, BW, BZ, CA, CH, CL, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, ID, IL, IN, IS, JP, KE, KN, KZ, LA, LC, LK, LR, LS, LT, LY, MA, ME, MG, MN, MW, MX, MY, NI, NO, NZ, OA, OM, PA, PE, PH, PL, PT, QA, RO, RS, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, TH, TJ, TN, TR, TT, UA, US, UZ, VC, VN, ZA, ZM, ZW

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. **TIME LIMITS for entry into the national phase**

For the designated or elected Office(s) listed above, the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated or elected Office(s) listed above. For **regular updates on the applicable time limits** (30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon
Facsimile No. +41 22 338 82 70	e-mail: pt01.pct@wipo.int



ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH DO NOT APPLY THE 30 MONTH TIME LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

HAN, Gee Na
6F., Kyungbin Bldg., 517-18
Dogok-dong, Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year) 03 July 2014 (03.07.2014)		IMPORTANT NOTICE	
Applicant's or agent's file reference OHP0054PCT			
International application No. PCT/KR2013/007775	International filing date (day/month/year) 29 August 2013 (29.08.2013)	Priority date (day/month/year) 28 November 2012 (28.11.2012)	
Applicant SK C&C CO., LTD.			

1. **ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does apply**, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).

2. Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
05 June 2014 (05.06.2014)

None

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

LU, TZ, UG

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. **TIME LIMITS for entry into the national phase**

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of **19 months** from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **20 MONTHS** from the priority date.

In practice, **time limits other than the 20-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For **regular updates on the applicable time limits** (20 or 21 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon
Facsimile No. +41 22 338 82 70	e-mail: pt01.pct@wipo.int

특 허 협 력 조 약
(PATENT COOPERATION TREATY)

발신 : 국제조사기관

수신 :
한 지나
서울시 강남구 도곡동 517-18 경빈빌딩 6층
135-854 대한민국

PCT

조사용사본 수령 통지서

(PCT 규칙 25.1)

발송일 (일/월/년) 2013년 09월 06일 (06.09.2013)

출원인 또는 대리인의 서류참조기호
OHP0054PCT

중요통지

국제출원번호
PCT/KR2013/007775

국제출원일 (일/월/년)
2013년 08월 29일 (29.08.2013)

우선일 (일/월/년)
2012년 11월 28일 (28.11.2012)

출원인
에스케이씨앤씨 주식회사

1. 국제조사기관 및 수리관청이 동일한 관청이 아닌 경우:
본 국제조사기관이 아래 기재된 날에 국제출원의 조사용사본을 수령하였음을 출원인에게 통지합니다.

국제조사기관 및 수리관청이 동일한 관청인 경우:
아래 기재된 날에 국제출원의 조사용사본을 수령하였음을 출원인에게 통지합니다.

2013년 09월 04일 (04.09.2013) (접수일)

2. 조사용사본에 전자적 형태의 핵산염기 및/또는 아미노산 서열목록이 첨부되어 있습니다.

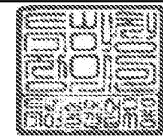
3. 조사용사본에 전자적 형태의 핵산염기 및/또는 아미노산 서열목록이 포함되어 있습니다.

4. 국제조사보고서 및 국제조사기관의 견해서 작성기한
국제조사보고서 및 국제조사기관의 견해서의 작성기한은 상기의 접수일로부터 3월 또는 우선일
부터 9월중 늦게 만료하는 날까지임을 통지합니다(조약규칙 42.1 및 43의 2.1(a)).

이 통지서의 사본은 국제사무국에 송부되었습니다. 다만, 1.의 첫 번째 문장에 해당하는 경우에는 수리관청에도 송부됩니다.

ISA/KR의 명칭 및 우편주소
대한민국 특허청
(302-701) 대전광역시 서구 청사로 189,
4동 (둔산동, 정부대전청사)
팩스번호 82-42-472-7140

특허청장
전화번호 82-42-481-8752



서식 PCT/ISA/202 (2009년 7월)



ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
AVAILABILITY OF THE PUBLICATION
OF THE INTERNATIONAL APPLICATION

To:

HAN, Gee Na
6F., Kyungbin Bldg., 517-18
Dogok-dong, Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (<i>day/month/year</i>) 05 June 2014 (05.06.2014)		IMPORTANT NOTICE	
Applicant's or agent's file reference OHP0054PCT			
International application No. PCT/KR2013/007775	International filing date (<i>day/month/year</i>) 29 August 2013 (29.08.2013)	Priority date (<i>day/month/year</i>) 28 November 2012 (28.11.2012)	
Applicant SK C&C CO., LTD.			

The applicant is hereby **notified** that the International Bureau:

- has **published** the above-indicated international application on 05 June 2014 (05.06.2014) under No. WO 2014/084484
- has **republished** the above-indicated international application on under No. WO
For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (*as the case may be*) on the front page of the published international application.

A copy of the international application is available for viewing and downloading on WIPO's website at the following address: www.wipo.int/pctdb (in the appropriate field of the structured search, enter the PCT or WO number).

The applicant may also obtain a paper copy of the published international application from the International Bureau by sending an e-mail to patentscope@wipo.int or by submitting a written request to the contact details provided below.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int
Facsimile No. +41 22 338 82 70	

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION,
OBTENTION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

HAN, Gee Na
6F., Kyungbin Bldg., 517-18
Dogok-dong
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year) 09 September 2013 (09.09.2013)	
Applicant's or agent's file reference OHP0054PCT	IMPORTANT NOTIFICATION
International application No. PCT/KR2013/007775	International filing date (day/month/year) 29 August 2013 (29.08.2013)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 28 November 2012 (28.11.2012)
Applicant SK C&C CO., LTD.	

The applicant is hereby notified of the date of receipt (or of obtaining by the International Bureau) of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to the date of receipt, **the priority document concerned was submitted or transmitted to or obtained by the International Bureau in compliance with Rule 17.1(a), (b) or (b-bis)**. This Form replaces any previously issued notification concerning submission, transmittal or obtaining of priority documents.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
28 November 2012 (28.11.2012)	10-2012-0135940	KR	03 September 2013 (03.09.2013)

The letters "NR" denote a priority document which, on the date of mailing of this Form, had not yet been received or obtained by the International Bureau in compliance with Rule 17.1(a), (b) or (b-bis). Where the applicant has failed to either submit, request to prepare and transmit, or to request the International Bureau to obtain the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

An asterisk "*" next to a date of receipt, denotes a priority document submitted or transmitted to or obtained by the International Bureau but not in compliance with Rule 17.1(a), (b) or (b-bis) (the priority document was received after the time limit prescribed in Rule 17.1(a); the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b) or the request to the International Bureau to obtain the priority document was made after the applicable time limit under Rule 17.1(b-bis)). Even though the priority document was not furnished in compliance with Rule 17.1(a), (b) or (b-bis), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01
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Facsimile No. +41 22 338 70 90

Form PCT/IB/304 (July 2012)

1/ESR3MJYUXSUU50

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

To:

HAN, Gee Na
6F., Kyungbin Bldg., 517-18
Dogok-dong
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (<i>day/month/year</i>) 04 September 2013 (04.09.2013)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference OHP0054PCT	International application No. PCT/KR2013/007775

The applicant is hereby **notified** that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

SK C&C CO., LTD. (all designated States)

International filing date: **29 August 2013 (29.08.2013)**
Priority date(s) claimed: **28 November 2012 (28.11.2012)**
Date of receipt of the record copy by the International Bureau: **03 September 2013 (03.09.2013)**
List of designated Offices:

AP: BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW

EA: AM, AZ, BY, KG, KZ, RU, TJ, TM

EP: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

OA: BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

National: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

ATTENTION: The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau. **In addition, the applicant's attention is drawn to:**

- time limits for entry into the national phase (see www.wipo.int/pct/en/texts/time_limits.html and *PCT Applicant's Guide*, National Phase, especially Chapters 3 and 4)
- requirements regarding priority documents (if applicable) (see *PCT Applicant's Guide*, International Phase, paragraph 5.070)

A copy of this notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Moon Kihwan e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01
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Facsimile No. +41 22 338 70 90

Form PCT/IB/301 (July 2010)

I/LMYP9KZVLYJ7H0

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20
Switzerland

PCT

REQUEST FOR THE RECORDING
 OF A CHANGE

(PCT Rule 92bis.1)

Date of mailing
 (day/month/year) 27 APRIL 2015 (27.04.2015)

International application No.
PCT/KR2013/007775

International filing date
 (day/month/year) 29 August 2013 (29.08.2013)

1. The following indications appear on record concerning:

the applicant the inventor the agent the common representative

Name and address 한지나(HAN, Gee Na) 대한민국 135-854 서울시 강남구 도곡동 517-18 경빈빌딩 6층 (6F., Kyungbin Bldg., 517-18 Dogok-dong Gangnam-gu Seoul 135-854 Republic of Korea)	State of Nationality*	State of Residence*
	Telephone No.	82-2-2051-4701
	Facsimile No.	82-2-2051-4703
	E-mail address	


2. This receiving Office hereby requests the International Bureau to record the following change in:

the person the name the address the nationality* the residence*

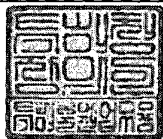
Name and address 한지나(HAN, Gee Na) 대한민국 135-854 서울시 강남구 논현로 34길 26(도곡동, 4층) (Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil, Gangnam-gu Seoul, 135-854, Republic of Korea)	State of Nationality*	State of Residence*
	Telephone No.	82-2-2051-4701
	Facsimile No.	82-2-2051-4703
	E-mail address	
		<input type="checkbox"/> Notifications by e-mail authorized

3. Further observation, if necessary

* To be indicated only for a change concerning the applicant.

Name and mailing address of the receiving Office

 International Application Division
 Korean Intellectual Property Office
 189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea
 Facsimile No. +82 42 472 3473

Authorized officer
 COMMISSIONER
 Telephone No. 82-42-481-8752



PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20
Switzerland

PCT

**REQUEST FOR THE RECORDING
 OF A CHANGE**

(PCT Rule 92bis.1)

Date of mailing
 (day/month/year) 27 APRIL 2015 (27.04.2015)

International application No.
PCT/KR2013/007775

International filing date
 (day/month/year) 29 August 2013 (29.08.2013)

1. The following indications appear on record concerning:

the applicant the inventor the agent the common representative

Name and address 에스케이씨앤씨 주식회사(SK C&C CO., LTD.)	State of Nationality*	State of Residence*
	KR	KR
	Telephone No.	
	Facsimile No.	
E-mail address		

2. This receiving Office hereby requests the International Bureau to record the following change in:

the person the name the address the nationality* the residence*


Name and address 모지도코화이어코리아 유한회사 (MOZIDO CORFIRE - KOREA, LTD.) 대한민국 463-847, 경기도 성남시 분당구 성남대로 343번길 9 (정자동) (Jeongja-dong) 9, Seongnam-daero 343beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-847, Republic of Korea)	State of Nationality*	State of Residence*
	KR	KR
	Telephone No. 82-2-2051-4701	
	Facsimile No.	
	E-mail address	
<input type="checkbox"/> Notifications by e-mail authorized		

3. Further observation, if necessary
 The applicant in Box 1 should be deleted from the record. The person in Box 2 should be added to the record as applicant for all designated states.

* To be indicated only for a change concerning the applicant.

Name and mailing address of the receiving Office
 International Application Division
 Korean Intellectual Property Office
 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea
 Facsimile No. +82 42 472 3473

Authorized officer
 COMMISSIONER
 Telephone No. 82-42-481-8752



특허협력조약(PCT)

위임장

(특허협력조약에 따라 출원된 국제출원에 대하여)
(PCT 규칙 90.4)

아래 서명 또는 기명날인한 출원인(성명(명칭)은 출원서 서식(PCT/RO/101)에 기재된 대로 기재하여야 합니다)

모지도코화이어코리아 유한회사
MOZIDO COREIRE - KOREA, LTD.
대한민국, 463-847, 경기도 성남시 분당구 성남대로 343번길 9 (정자동)
(Jeongja-dong) 9, Seongnam-daero 343beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-847, Republic of Korea

다음 사람을 대리인 또는 대표자로 선임합니다.

성명(명칭) 및 주소
(성 다음에 이름을 기재. 법인의 경우, 완전한 공식명칭을 기재. 주소에는 우편번호와 국가명이 반드시 기재되어야 합니다)

한지나
HAN, Gee Na
대한민국, 135-854, 서울시 강남구 논현로34길 26 (도곡동, 4층)
(Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil, Gangnam-gu Seoul 135-854, Republic of Korea

선임된 대리인(또는 대표자)은 다음에 표시된 기관에 대하여 아래 서명 또는 기명날인한 출원인을 대리하고, 그 출원인을 대신하여 수수료를 납부하거나 반환받습니다.

- 모든 관할 국제기관
- 국제조사기관만
- 보충적 조사를 위해 명시된 기관: (보충적 조사를 위해 명시된 기관을 기재하여 주십시오)
- 국제예비심사기관만

등 선임은 아래 표시된 국제출원과 관련됩니다.

발명의 명칭: 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기

출원인 또는 대리인의 서류참조기호: OHP0054PCT
국제출원번호(알 수 있는 경우): PCT/KR2013/007775

상기 출원은Korean Intellectual Property Office.....를 수리관청으로 하여 출원되었습니다.

출원인의 서명 또는 기명날인 (출원인이 둘 이상인 경우에는 각각의 출원인이 서명 또는 기명날인하여야 합니다. 출원서 또는 본 위임장을 통해 서명하는 사람의 자적이 명확히 확인되지 아니하는 경우에는 각각의 서명 옆에 서명하는 사람의 성명 및 자격을 기재합니다)

모지도코화이어코리아 유한회사
MOZIDO COREIRE - KOREA, LTD.



일자: 2015.4.7

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20
Switzerland

PCT

**REQUEST FOR THE RECORDING
OF A CHANGE**

(PCT Rule 92bis.1)

Date of mailing (day/month/year) 27 APRIL 2015 (27.04.2015)

International application No.
PCT/KR2013/007775

International filing date (day/month/year) 29 August 2013 (29.08.2013)

1. The following indications appear on record concerning:
 the applicant the inventor the agent the common representative

Name and address 양성환(YANG, Sung Hwan) 대한민국 135-854 서울시 강남구 도곡동 517-18 경빈빌딩 6층 (6F., Kyungbin Bldg., 517-18 Dogok-dong Gangnam-gu Seoul 135-854 Republic of Korea)	State of Nationality*	State of Residence*
	Telephone No.	82-2-2051-4701
	Facsimile No.	82-2-2051-4703
	E-mail address	


2. This receiving Office hereby requests the International Bureau to record the following change in:
 the person the name the address the nationality* the residence*

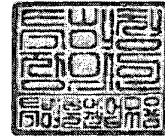
Name and address 양성환(YANG, Sung Hwan) 대한민국 135-854 서울시 강남구 논현로 34길 26(도곡동, 4층) (Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil, Gangnam-gu Seoul 135-854, Republic of Korea)	State of Nationality*	State of Residence*
	Telephone No.	82-2-2051-4701
	Facsimile No.	82-2-2051-4703
	E-mail address	

Notifications by e-mail authorized

3. Further observation, if necessary

* To be indicated only for a change concerning the applicant.

Name and mailing address of the receiving Office
 International Application Division
 Korean Intellectual Property Office
 189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea
 Facsimile No. +82 42 472 3473

Authorized officer
 COMMISSIONER

 Telephone No. 82-42-481-8752

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HAN, Gee Na
(Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil,
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (<i>day/month/year</i>) 22 May 2015 (22.05.2015)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference OHP0054PCT	
International application No. PCT/KR2013/007775	International filing date (<i>day/month/year</i>) 29 August 2013 (29.08.2013)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address SK C&C CO., LTD. SK u- Tower, 25-1 Jeongja-dong, Bundang-gu Seongnam-si Gyeonggi-do 463-844 Republic of Korea	State of Nationality KR	State of Residence KR
	Telephone No. 82-2-6400-5359	
	Facsimile No. 82-2-6400-0273	
	E-mail address cjn99@sk.com	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address MOZIDO CORFIRE-KOREA, LTD. (Jeongja-dong) 9, Seongnam-daero 343beon-gil Bundang-gu, Seongnam-si Gyeonggi-do 463-847 Republic of Korea	State of Nationality KR	State of Residence KR
	Telephone No.	
	Facsimile No.	
	E-mail address <input type="checkbox"/> Notifications by e-mail authorized	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the International Preliminary Examining Authority
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the Authority(ies) specified for supplementary search	<input type="checkbox"/> the elected Offices concerned
	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ha Kinam e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01
Facsimile No. +41 22 338 70 90	

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HAN, Gee Na
(Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil,
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (<i>day/month/year</i>) 22 May 2015 (22.05.2015)	IMPORTANT NOTIFICATION
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International application No. PCT/KR2013/007775	International filing date (<i>day/month/year</i>) 29 August 2013 (29.08.2013)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address HAN, Gee Na 6F., Kyungbin Bldg., 517-18 Dogok-dong, Gangnam-gu Seoul 135-854 Republic of Korea	State of Nationality	State of Residence
	Telephone No. 82-2-2051-4701	
	Facsimile No. 82-2-2051-4703	
	E-mail address gnhan@hanpatent.co.kr	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address HAN, Gee Na (Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil, Gangnam-gu Seoul 135-854 Republic of Korea	State of Nationality	State of Residence
	Telephone No. 82-70-4361-9530	
	Facsimile No. 82-2-2051-4703	
	E-mail address gnhan@alexnam.co.kr <input checked="" type="checkbox"/> Notifications by e-mail authorized	

3. Further observations, if necessary:


4. A copy of this notification has been sent to:

the receiving Office the International Preliminary Examining Authority
 the International Searching Authority the designated Offices concerned
 the Authority(ies) specified for supplementary search the elected Offices concerned
 other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ha Kinam e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01
Facsimile No. +41 22 338 70 90	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2013/007775

<p>A. CLASSIFICATION OF SUBJECT MATTER <i>G06Q 20/32(2012.01)i</i></p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																				
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) G06Q 20/32; G06Q 20/40; H04W 92/08; G06F 15/00; H04W 4/24; H04B 1/40</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models: IPC as above Japanese Utility models and applications for Utility models: IPC as above</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal) & Keywords: payment card, temporary, mobile, time, setting, release</p>																				
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>KR 10-2011-0096011 A (JUNG, Young Sun) 26 August 2011 See abstract, claims 1-3 and figure 10.</td> <td>1-15</td> </tr> <tr> <td>A</td> <td>KR 10-2009-0070814 A (KIM, Jong Hae) 01 July 2009 See abstract, claims 1, 5 and figure 1.</td> <td>1-15</td> </tr> <tr> <td>A</td> <td>KR 10-2007-0021461 A (SAMSUNG ELECTRONICS CO., LTD.) 23 February 2007 See abstract, claims 1-11 and figure 2.</td> <td>1-15</td> </tr> <tr> <td>A</td> <td>KR 10-2003-0075062 A (HAREXINFOTECH INC.) 22 September 2003 See abstract, claims 1-4 and figure 2.</td> <td>1-15</td> </tr> <tr> <td>A</td> <td>KR 10-2001-0102052 A (NTT DOCOMO, INC.) 15 November 2001 See abstract, claims 1-4 and figures 17a-18.</td> <td>1-15</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	KR 10-2011-0096011 A (JUNG, Young Sun) 26 August 2011 See abstract, claims 1-3 and figure 10.	1-15	A	KR 10-2009-0070814 A (KIM, Jong Hae) 01 July 2009 See abstract, claims 1, 5 and figure 1.	1-15	A	KR 10-2007-0021461 A (SAMSUNG ELECTRONICS CO., LTD.) 23 February 2007 See abstract, claims 1-11 and figure 2.	1-15	A	KR 10-2003-0075062 A (HAREXINFOTECH INC.) 22 September 2003 See abstract, claims 1-4 and figure 2.	1-15	A	KR 10-2001-0102052 A (NTT DOCOMO, INC.) 15 November 2001 See abstract, claims 1-4 and figures 17a-18.	1-15
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.</p>																				
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="vertical-align: top;"> <p>“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</p> <p>“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</p> <p>“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</p> <p>“G” document member of the same patent family</p> </td> </tr> </table>			<p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“G” document member of the same patent family</p>																
<p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“G” document member of the same patent family</p>																			
<p>Date of the actual completion of the international search 20 NOVEMBER 2013 (20.11.2013)</p>		<p>Date of mailing of the international search report 21 NOVEMBER 2013 (21.11.2013)</p>																		
<p>Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140</p>		<p>Authorized officer Telephone No.</p>																		

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2013/007775

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2011-0096011 A	26/08/2011	KR 10-2011-0084865 A	26/07/2011
KR 10-2009-0070814 A	01/07/2009	NONE	
KR 10-2007-0021461 A	23/02/2007	NONE	
KR 10-2003-0075062 A	22/09/2003	NONE	
KR 10-2001-0102052 A	15/11/2001	AU 2001-17327 A1	18/06/2001
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		CN 1620175 B	21/04/2010
		CN 1620175 C	21/04/2010
		CN 1620175 C0	25/05/2005
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		EP 1161066 A1	05/12/2001
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		TW 494666 B	11/07/2002
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		TW 541822 B	11/07/2003
		US 2002-0138422 A1	26/09/2002

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2013/007775

Patent document cited in search report	Publication date	Patent family member	Publication date
		US 2003-0045328 A1	06/03/2003
		US 2004-0087338 A1	06/05/2004
		US 2005-0148367 A1	07/07/2005
		US 6910624 B1	28/06/2005
		US 7231202 B2	12/06/2007
		US 7604163 B2	20/10/2009
		WO 01-43004 A1	14/06/2001
		WO 01-43412 A1	14/06/2001

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME			
First Named Inventor/Applicant Name:	Min Hwan JEON			
Filer:	Peter A. McKenna/Christopher Knight			
Attorney Docket Number:	Q220066			
Filed as Large Entity				
Filing Fees for U.S. National Stage under 35 USC 371				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
National Stage Fee	1631	1	280	280
Nat'l Stage Search Fee - Report provided	1642	1	480	480
National Stage Exam - all other cases	1633	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1480

Electronic Acknowledgement Receipt

EFS ID:	22467085
Application Number:	14647859
International Application Number:	PCT/KR2013/007775
Confirmation Number:	5414
Title of Invention:	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME
First Named Inventor/Applicant Name:	Min Hwan JEON
Customer Number:	23373
Filer:	Peter A. McKenna/Christopher Knight
Filer Authorized By:	Peter A. McKenna
Attorney Docket Number:	Q220066
Receipt Date:	28-MAY-2015
Filing Date:	
Time Stamp:	10:28:13
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1480
RAM confirmation Number	10660
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Q220066TransmittalNewApplication.pdf	50040 b4243aa0739fae415e00d5a282cdf5322d7f258e	no	3
Warnings:					
Information:					
2	Application Data Sheet	Q220066ADS.pdf	1560952 dae25479c1e29678c1b022958fb44f19662f4e5	no	7
Warnings:					
Information:					
3		Q220066Specificationasfiled.pdf	75454 4491110e55eb940a21facfb5289fd7f949175130	yes	16
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Specification	1	12		
	Claims	13	15		
	Abstract	16	16		
Warnings:					
Information:					
4	Drawings-only black and white line drawings	Q220066Drawingsasfiled.pdf	915919 aecaba1a212ce091b140550c70b6783b01982420	no	20
Warnings:					
Information:					
5	Oath or Declaration filed	Q220066CombinedDecandAssi gnmentExecuted.pdf	1881735 7fb5c804661d5764037df8b55aab5ead16035856d	no	3
Warnings:					
Information:					
6	Preliminary Amendment	Q220066PreliminaryAmendme nt.pdf	22949 68ab1a8871f961baa22b1f63143f813c10b40287	no	3

Warnings:					
Information:					
7	Documents submitted with 371 Applications	Q220066PCTRO101.pdf	244372 82328d36e4b7134149e9881fcfee867208b40ae9	no	4
Warnings:					
Information:					
8	Documents submitted with 371 Applications	Q220066PCTIB308.pdf	382387 625a24fd88e48a028d493b324a8fffc760d20294	no	2
Warnings:					
Information:					
9	Documents submitted with 371 Applications	Q220066PCTISA202.pdf	116712 a47de076f2356d1474aace11239fe252854e30a0	no	1
Warnings:					
Information:					
10	Documents submitted with 371 Applications	Q220066PCTIB311.pdf	124393 3b55608b4aa83f10a899a166abc783a2db8ab4f4	no	1
Warnings:					
Information:					
11	Documents submitted with 371 Applications	Q220066PCTIB304.pdf	157618 33e104817f689e7e7a79979fedff5625affec9c7	no	1
Warnings:					
Information:					
12	Documents submitted with 371 Applications	Q220066PCTIB301.pdf	150192 50bbf6362cdf5e21a3dccc09a2472a616399a4832	no	1
Warnings:					
Information:					
13	Documents submitted with 371 Applications	Q220066PCTRO113.pdf	397344 3c3d5d2c4538e47cc47ba3197c7e3190995ed1c	no	4
Warnings:					
Information:					
14	Documents submitted with 371 Applications	Q220066PCTIB306.pdf	314380 68435f0481d4f4ea0e06f37381d89677a1b07b70	no	2
Warnings:					
Information:					
15	Documents submitted with 371 Applications	Q220066ISR.pdf	225630 49fec0431542647f741d3b914cdf4014dac8ddf	no	3

Warnings:					
Information:					
16	Fee Worksheet (SB06)	fee-info.pdf	35532	no	2
			ee06caad7453c68194e7d7e6723aa8572f4b9efb		
Warnings:					
Information:					
Total Files Size (in bytes):				6655609	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/647,859
Filing Date	May 28, 2015
First Named Inventor	Min Hwan JEON
Title	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	Q220066

SIGNATURE of Applicant or Patent Practitioner

Signature	/Chidambaram.S.Iyer/43355	Date (Optional)	May 28, 2015
Name	Peter A. McKenna	Registration Number	38,551

Title (if Applicant is a juristic entity)

Applicant Name (if Applicant is a juristic entity)

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

*Total of 1 forms are submitted.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

I hereby appoint:

Patent Practitioner(s) associated with the following Customer Number:

WASHINGTON OFFICE
23373
 CUSTOMER NUMBER

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/82A) or identified above.

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

The address associated with the above-mentioned Customer Number.

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

MOZIDO CORFIRE - KOREA, LTD.

- Inventor or Joint Inventor (title not required below)
- Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	<i>Park Min Sig</i>	Date (Optional)	
Name	<i>PARK MIN SIG</i>		
Title	<i>vp of Global strategy / planning</i>		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	22467736
Application Number:	14647859
International Application Number:	
Confirmation Number:	5414
Title of Invention:	METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME
First Named Inventor/Applicant Name:	Min Hwan JEON
Customer Number:	23373
Filer:	Peter A. McKenna/Christopher Knight
Filer Authorized By:	Peter A. McKenna
Attorney Docket Number:	Q220066
Receipt Date:	28-MAY-2015
Filing Date:	
Time Stamp:	11:09:00
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	Q220066PowerofAttorneyExecuted.pdf	239351 <small>789d8565f8e85f2fa8b38ae905d8e7b8aba13ecd</small>	no	2

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HAN, Gee Na
(Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil,
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year) 22 May 2015 (22.05.2015)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference OHP0054PCT	
International application No. PCT/KR2013/007775	International filing date (day/month/year) 29 August 2013 (29.08.2013)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address SK C&C CO., LTD. SK u- Tower, 25-1 Jeongja-dong, Bundang-gu Seongnam-si Gyeonggi-do 463-844 Republic of Korea	State of Nationality KR	State of Residence KR
	Telephone No. 82-2-6400-5359	
	Facsimile No. 82-2-6400-0273	
	E-mail address cjn99@sk.com	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address MOZIDO CORFIRE-KOREA, LTD. (Jeongja-dong) 9, Seongnam-daero 343beon-gil Bundang-gu, Seongnam-si Gyeonggi-do 463-847 Republic of Korea	State of Nationality KR	State of Residence KR
	Telephone No.	
	Facsimile No.	
	E-mail address <input type="checkbox"/> Notifications by e-mail authorized	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the International Preliminary Examining Authority
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the Authority(ies) specified for supplementary search	<input type="checkbox"/> the elected Offices concerned
	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ha Kinam
Facsimile No. +41 22 338 70 90	e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HAN, Gee Na
(Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil,
Gangnam-gu
Seoul 135-854
RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year) 22 May 2015 (22.05.2015)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference OHP0054PCT	
International application No. PCT/KR2013/007775	International filing date (day/month/year) 29 August 2013 (29.08.2013)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address HAN, Gee Na 6F., Kyungbin Bldg., 517-18 Dogok-dong, Gangnam-gu Seoul 135-854 Republic of Korea	State of Nationality	State of Residence
	Telephone No. 82-2-2051-4701	
	Facsimile No. 82-2-2051-4703	
	E-mail address gnhan@hanpatent.co.kr	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

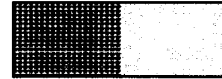
Name and Address HAN, Gee Na (Dogok-dong, 4F) 26, Nonhyeon-ro 34-gil, Gangnam-gu Seoul 135-854 Republic of Korea	State of Nationality	State of Residence
	Telephone No. 82-70-4361-9530	
	Facsimile No. 82-2-2051-4703	
	E-mail address gnhan@alexnam.co.kr <input checked="" type="checkbox"/> Notifications by e-mail authorized	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the International Preliminary Examining Authority
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the Authority(ies) specified for supplementary search	<input type="checkbox"/> the elected Offices concerned
	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ha Kinam e-mail pt01.pct@wipo.int Telephone No. +41 22 338 74 01
Facsimile No. +41 22 338 70 90	



별첨 사본은 아래 출원의 원본과 동일함을 증명함.

This is to certify that the following application annexed hereto
is a true copy from the records of the Korean Intellectual
Property Office

출원 번호 : 10-2012-0135940
Application Number

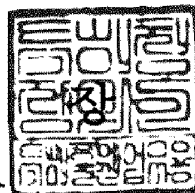
출원 년 월 일 : 2012년 11월 28일
Filing Date 11월 28, 2012

출원인 : 에스케이씨앤씨 주식회사
Applicant(s) SK C&C Co., Ltd.

2013 년 09 월 02 일

특 허 청

COMMISSIONER



【서지사항】

【서류명】 특허출원서
【참조번호】 0187
【출원구분】 특허출원
【출원인】
【명칭】 에스케이씨앤씨 주식회사
【출원인코드】 1-1999-029895-8
【대리인】
【성명】 한지나
【대리인코드】 9-2005-000113-6
【포괄위임등록번호】 2011-046390-9
【대리인】
【성명】 양성환
【대리인코드】 9-2005-000109-7
【포괄위임등록번호】 2011-046389-6
【발명의 국문명칭】 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기
【발명의 영문명칭】 Method for Temporary Payment Card Set-up and Mobile Device using the same
【발명자】
【성명】 전민환
【성명의 영문표기】 Jeon, Min Hwan
【주민등록번호】 801013-1XXXXXX
【우편번호】 464-925
【주소】 경기도 광주시 오포읍 신현리 675-6
【국적】 KR
【심사청구】 청구

【취지】 위와 같이 특허청장에게 제출합니다.

대리인 한지나 (서명 또는 인)

대리인 양성환 (서명 또는 인)

【수수료】

【출원료】	0 면	38,000 원
【가산출원료】	32 면	0 원
【우선권주장료】	0 건	0 원
【심사청구료】	15 항	730,000 원
【합계】		768,000 원

【명세서】

【발명의 명칭】

임시 결제카드 설정 방법 및 이를 적용한 모바일 기기{Method for Temporary Payment Card Set-up and Mobile Device using the same}

【기술분야】

- <1> 본 발명은 결제카드 설정 방법에 관한 것으로, 더욱 상세하게는 대금 결제에 사용할 모바일 결제카드를 설정하기 위한 방법 및 이를 적용한 모바일 기기에 관한 것이다.

【배경기술】

- <2> 중복 결제를 방지하기 위해, 모바일 지갑 어플리케이션(Mobile Wallet Application)은 발급된 모바일 결제카드들 중 하나를 주 결제카드로 설정하여 대금을 결제한다.
- <3> 주 결제카드가 아닌 다른 모바일 결제카드로 대금을 결제하는 것도 가능하지만, 그렇게 하기 위해서는 사용자가 결제를 원하는 모바일 결제카드를 주 결제카드로 설정하는 작업이 선행되어야 한다.
- <4> 한편, 다른 모바일 결제카드를 이용한 대금 결제가 일시적인 경우(즉, 1회성인 경우), 사용자는 결제가 완료된 후에 다시 원래의 주 결제카드를 복원시켜야 하는데, 이는 사용자를 매우 번거롭고 불편하게 하는 요인이다.

<5> 또한, 주 결제카드를 다른 모바일 결제카드로 변경하는 조작 역시, 모바일 키머스가 활성화되지 않은 현 시점을 고려할 때, 사용자에게 불편함, 복잡함, 그리고, 어색함으로 작용할 것이다.

【발명의 내용】

【해결하려는 과제】

<6> 본 발명은 상기와 같은 문제점을 해결하기 위하여 안출된 것으로서, 본 발명의 목적은, 일시적인 결제카드 변경을 보다 편리하고 빠르며 친숙하고 재미있으며 직관적으로 하기 위한 방안으로, 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기를 제공함에 있다.

【과제의 해결 수단】

<7> 상기 목적을 달성하기 위한 본 발명의 일 실시예에 따른, 임시 결제카드 설정 방법은, 모바일 결제카드들의 리스트를 표시하는 단계; 상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하는 단계; 및 결제 가능 시간이 경과 하면, 임시 결제카드 설정을 해제하는 단계;를 포함한다.

- <8> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 움직여진 모바일 결제카드가 상기 사용자에게 의해 원위치로 이동되면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함할 수 있다.
- <9> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 결제 가능한 잔여 시간을 표시하는 단계;를 더 포함할 수 있다.
- <10> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능 시간 내에 결제가 이루어지면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함할 수 있다.
- <11> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 원위치로 이동시키는 단계;를 더 포함할 수 있다.
- <12> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 원위치에 점진적으로 이동시키는 단계;를 더 포함할 수 있다.
- <13> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능 시간이 경과 하기 전에, 상기 임시 결제카드로 설정된 모바일 결제카드가 상기 사용자에게 의해 다시 움직여지면, 상기 결제 가능 시간을 연장시키는 단계;를 더 포함할 수 있다.
- <14> 그리고, 상기 설정단계에서 사용자에게 의한 움직임은, 상기 연장단계에서 사

용자에 의한 움직임과 동일한 방식의 움직임일 수 있다.

<15> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능 시간이 경과 하기 전에, 상기 모바일 기기가 상기 사용자에게 의해 특정 패턴으로 움직여지면 상기 결제 가능 시간을 연장시키는 단계;를 더 포함할 수 있다.

<16> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 사라지게 하는 단계;를 더 포함할 수 있다.

<17> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 점진적으로 사라지게 하는 단계;를 더 포함할 수 있다.

<18> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 잔여 시간이 임계치 이하이면, 알람을 출력하는 단계;를 더 포함할 수 있다.

<19> 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 모바일 기기에 발급된 부가 서비스들의 리스트를 표시하는 단계; 및 상기 리스트에 나열된 부가 서비스들 중 사용자에게 의해 움직여진 부가 서비스를 사용할 수 있도록 설정하는 단계;를 더 포함할 수 있다.

<20> 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 사용 가능 시간이 경과 하면, 상기 부가 서비스를 사용 불가능하도록 설정하는 단계;를 더 포

함할 수 있다.

<21> 한편, 본 발명의 다른 실시예에 따른, 모바일 기기는, 모바일 결제카드들의 리스트가 표시되는 터치 스크린; 및 상기 터치 스크린에 표시된 상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 프로세서;를 포함한다.

【발명의 효과】

<22> 이상 설명한 바와 같이, 본 발명의 실시예들에 따르면, 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하게 되어, 일시적인 결제카드 변경을 보다 편리하고 빠르게 할 수 있게 된다.

<23> 또한, 결제 가능 시간은 사용자에게 의해 원하는 적정 시간으로 설정 가능할 뿐만 아니라, 연장시키거나 강제 종료시키는 것도 가능하며, 사용자의 편리함은 배가 될 수 있다.

<24> 아울러, 다양한 시각적인 효과와 애니메이션 효과 등으로 인해 친숙하고 직관적인 조작에 의한 임시 결제카드 설정이 가능할 뿐만 아니라, 조작상의 과정에서 사용자에게 재미와 즐거움을 부여할 수 있다.

【도면의 간단한 설명】

- <25> 도 1은 모바일 결제카드 관리 화면이 나타난 모바일 기기를 도시한 도면,
 도 2는 모바일 결제카드 추가 화면을 도시한 도면,
 도 3은 사용자가 모바일 결제카드 리스트에 추가할 모바일 결제카드를 드래그하는 화면을 도시한 도면,
 도 4는 모바일 결제카드 추가 화면의 상부에 마련된 추가 영역에 모바일 결제카드를 드롭시킨 화면을 도시한 도면,
 도 5는 모바일 결제카드 추가 화면의 중앙에 모바일 결제카드가 선택 안내마크가 표시된 화면을 도시한 도면,
 도 6은 모바일 결제카드의 "Activation Code"와 "User ID"를 입력하기 위한 입력창이 나타난 모바일 기기를 도시한 도면,
 도 7은 입력창을 통해 사용자가 "Activation Code"와 "User ID"를 입력을 완료한 상태를 도시한 도면,
 도 8은 모바일 결제카드 추가 처리 수행중을 안내하는 화면을 도시한 도면,
 도 9는 모바일 결제카드가 추가된 모바일 결제카드 관리 화면을 도시한 도면,
 도 10은 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면,
 도 11은 사용자가 모바일 결제카드를 슬라이드-업 시킨 상황을 도시한 도면,

도 12는 슬라이드-업 조작에 의해 모바일 결제카드가 결제카드 선택 화면의 상부로 이동한 결과를 도시한 도면,

도 13은 사용자가 작위적으로 임시 결제카드를 슬라이드-다운시킨 경우를 도시한 도면,

도 14는 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면,

도 15는 사용자에게 의해 모바일 결제카드가 슬라이드-업 되어 임시 결제카드 로 선택/설정된 결과를 도시한 도면,

도 16은 결제 가능 시간이 10초 경과 후의 결제카드 선택 화면을 도시한 도면,

도 17은 결제 가능 시간이 20초 경과 후의 결제카드 선택 화면을 도시한 도면,

도 18은 결제 가능 시간이 경과 하기 전에 사용자에게 의해 모바일 결제카드가 다시 슬라이드-업 되는 상황을 도시한 도면,

도 19는 결제 가능 시간이 연장된 상태를 도시한 도면, 그리고,

도 20은 본 발명이 적용가능한 모바일 기기의 블록도이다.

【발명을 실시하기 위한 구체적인 내용】

<26> 이하에서는 도면을 참조하여 본 발명을 보다 상세하게 설명한다.

<27> 도 1은 모바일 결제카드 관리 화면이 나타난 모바일 기기를 도시한

도면이다. 도 1에 도시된 모바일 결제카드 관리 화면에서, 사용자는 "Add new" 항목을 선택하여 모바일 결제카드를 리스트에 추가할 수 있다.

<28> "Add new" 항목이 사용자에게 의해 선택된 경우에 제공되는 모바일 결제카드 추가 화면이 나타난 모바일 기기를 도 2에 도시하였다. 도 2에 도시된 바와 같이, 모바일 결제카드 추가 화면의 하부에는 모바일 기기의 SE(Secure Element)에 발급된 모바일 결제카드들이 나타난다.

<29> 도 3에 도시된 바와 같이 사용자가 모바일 결제카드 리스트에 추가할 모바일 결제카드를 드래그(Drag)하여, 도 4에 도시된 바와 같이 모바일 결제카드 추가 화면의 상부에 마련된 추가 영역에 드롭(Drop)시키면, 도 5에 도시된 바와 같이 모바일 결제카드 추가 화면의 중앙에는 추가할 모바일 결제카드가 선택 완료되었음을 안내하는 마크 "V"가 표시된다.

<30> 이후, 도 6에 도시된 바와 같이, 모바일 결제카드 추가 화면에서 D&D(Drag&Drop)된 모바일 결제카드가 사라지고, 그 모바일 결제카드의 "Activation Code"와 "User ID"를 입력하기 위한 입력창이 나타난다.

<31> 도 7에 도시된 바와 같이, 입력창을 통해 사용자가 "Activation Code"와 "User ID"를 각각 입력하면, 도 8에 도시된 바와 같이 모바일 결제카드 추가 처리가 수행되어, 도 9에 도시된 바와 같이 모바일 결제카드 관리 화면 상의 리스트에 선택된 모바일 결제카드가 추가된다.

<32> 리스트에 나열된 모바일 결제카드들 중 하나는 주 결제카드로 설정되어, 모

바일 기기를 이용한 대금 결제시 결제 수단으로 이용된다. 주 결제카드는 모바일 결제카드 관리 화면을 통해 설정할 수 있음은 물론 모바일 지갑 어플리케이션 (Mobile Wallet Application)을 통해서도 설정할 수 있다.

<33> 한편, 주 결제카드가 아닌 다른 모바일 결제카드를 이용한 일시적인 대금 결제도 가능하데, 이를 위해서는 일시적인 대금 결제에 이용할 모바일 결제카드를 임시 결제카드로 설정하여야 한다.

<34> 이하에서, 본 발명의 일 실시예에 따른 임시 결제카드 설정방법에 대해, 도 10 내지 도 13을 참조하여 상세히 설명한다. 설명과 이해의 편의를 위해, 주 결제카드로 설정된 모바일 결제카드는 "VHS Card"이고, 임시 결제카드로 설정할 모바일 결제카드는 "ABC PREMIER" 카드인 것으로 상정하겠다.

<35> 도 10은 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면이다. 도 10에 도시된 바와 같이, 결제카드 선택 화면에는 모바일 결제카드 리스트가 커버 플로우 형식(Cover Flow View)으로 나타난다.

<36> 사용자는 모바일 결제카드 리스트에서 임시 결제카드로 이용할 모바일 결제카드를 슬라이드-업(Slide-Up) 하여 선택할 수 있다. 도 11에는 사용자가 "ABC PREMIER" 카드를 임시 결제카드로 선택하기 위해 슬라이드-업 시킨 상황을 도시하였고, 도 12에는 사용자의 슬라이드-업 조작에 의해 "ABC PREMIER" 카드가 결제카드 선택 화면의 상부로 이동한 결과를 도시하였다.

<37> 사용자의 슬라이드-업 조작은, 도 10에 도시된 "ABC PREMIER" 카드의 위치로

부터 도 12에 도시된 "ABC PREMIER" 카드의 위치까지 이루어져야 하는 것은 아니다. 약간의 슬라이드-업 조작에 의해서도, "ABC PREMIER" 카드가 도 10에 도시된 위치로부터 도 12에 도시된 위치까지 자동으로 이동하도록 애니메이션 효과를 부여하는 것이 가능하다.

<38> 이와 같이, 사용자에게 의해 슬라이드-업 된 "ABC PREMIER" 카드는 임시 결제 카드로 설정된다. 이에, POS(Point Of Sale)의 NFC(Near Field Communication) 리더와 같은 모바일 결제용 리더에 모바일 기기를 접촉시키면, 임시 결제카드인 "ABC PREMIER" 카드에 의한 대금 결제가 이루어진다.

<39> 임시 결제카드에 의한 대금 결제는 '결제 가능 시간' 내에 이루어져야 한다. 즉, 결제 가능 시간이 경과 하면, 임시 결제카드 설정이 해제되어, 주 결제카드로 결제가 이루어진다.

<40> 한편, 결제 가능한 잔여 시간이, 도 12에 도시된 바와 같이 사용자에게 안내된다. 결제 가능 시간은 전술한 모바일 결제카드 관리 화면이나 모바일 지갑 어플리케이션을 통해 사용자가 자유로이 설정/변경할 수 있다.

<41> 결제 가능 시간이 경과 하면, 슬라이드-업 되었던 "ABC PREMIER" 카드가 슬라이드-다운(Slide-Down) 되어, 도 10에 도시된 원위치로 이동한다. 임시 결제카드 설정이 해제되었음을 사용자가 인지할 수 있도록 하기 위해, 슬라이드-다운은 슬라이드-업 속도 보다 느리게 처리함이 바람직하다. 더 나아가, 임시 결제카드 설정 해제를 안내하기 위한 안내 멘트를 시각 정보나 음성/음향 정보로 출력할 수 있음은 물론 진동을 통해서도 안내할 수 있다.

- <42> 결제 가능 시간 내에 결제가 이루어진 경우에도, 임시 결제카드 설정이 해제된다. 이는, 중복 결제를 방지하기 위함이다.
- <43> 한편, 결제 가능 시간이 남아 있더라도, 도 13에 도시된 바와 같이 사용자가 작위적으로 임시 결제카드를 슬라이드-다운 시킨 경우에도, 임시 결제카드 설정은 해제된다.
- <44> 다른 한편으로, 결제 가능 시간 연장도 가능하다. 예를 들어, 결제 가능 시간이 경과 하기 전에, 모바일 기기가 사용자에게 의해 좌우로 3회 이상 반복하여 흔들린 경우, 결제 가능 시간이 연장되도록 구현가능하다. 여기서, 모바일 기기의 흔들림은 예시적인 것으로 다른 패턴의 움직임으로 대체가능하다.
- <45> 결제 가능 시간 연장이나 조속한 결제를 유도하기 위해, 결제 가능한 잔여 시간이 3초가 되면, 모바일 기기가 알람을 출력하도록 구현가능하다. 여기서, 알람은 임시 결제카드 설정 해제가 임박하였음을 안내하기 위한 안내 멘트를 시각 정보나 음성/음향 정보로 출력할 수 있음은 물론 진동을 통해서도 가능하다.
- <46> 이하에서, 본 발명의 다른 실시예에 따른 임시 결제카드 설정방법에 대해, 도 14 내지 도 19를 참조하여 상세히 설명한다.
- <47> 도 14은 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면이고, 도 15는 사용자에게 의해 "ABC PREMIER" 카드가 슬라이드-업 되어 임시 결제카드로 선택/설정된 결과를 도시하였다.
- <48> 또한, 도 15에서는 결제 가능한 잔여 시간을 "30초"로 안내하고 있다.

이후, 10초 경과 후의 결제카드 선택 화면이 도 16에 되어 있다. 도 16에 도시된 바에 따르면, "ABC PREMIER" 카드가 슬라이드-업 된 총 거리의 1/3 만큼 슬라이드-다운되었고, 결제 가능한 잔여 시간은 "20초"임을 확인할 수 있다.

<49> 이후, 10초 더 경과 후의 결제카드 선택 화면이 도 17에 되어 있다. 도 17에 도시된 바에 따르면, "ABC PREMIER" 카드가 슬라이드-업 된 총 거리의 2/3 만큼 슬라이드-다운되었고, 결제 가능한 잔여 시간은 "10초"임을 확인할 수 있다.

<50> 도 15 내지 도 17을 통해, 사용자에게 의해 슬라이드-업 된 모바일 결제카드, 즉 임시 결제카드로 선택/설정된 모바일 결제카드는, 결제 가능 시간이 경과함에 따라 서서히 슬라이드-다운 되어 원위치로 이동함을 확인할 수 있다. 이때, 슬라이드-다운된 거리는 결제 가능한 잔여 시간에 반비례한다.

<51> 한편, 도 18에 도시된 바와 같이, 슬라이드-다운 되는 모바일 결제카드가 결제 가능 시간이 경과 하기 전에 사용자에게 의해 다시 슬라이드-업 되면, 도 19에 도시된 바와 같이 결제 가능 시간이 연장된다.

<52> 본 실시예에서, 결제 가능 시간은 사용자에게 의한 슬라이드-업 거리에 비례하도록 구현가능하다. 즉, 사용자에게 의한 슬라이드-업 거리가 길수록 이미 결제 가능 시간도 길고, 사용자에게 의한 슬라이드-업 거리가 짧을수록 이미 결제 가능 시간도 짧게 구현하는 것이 가능하다. 그리고, 이는 임의 결제 시간 연장에도 동일하게 적용될 수 있다.

<53> 지금까지, 임시 결제카드 설정방법에 대해 바람직한 실시예들을 들어 상세히

설명하였다.

<54> 위 실시예들에서는, 모바일 결제카드를 슬라이드-업 시켜 임시 결제카드로 선택하는 것을 상정하였는데, 이는 설명의 편의를 위한 예시적인 것으로 변형이 가능하다. 즉, 슬라이드 방향을 다르게 구현할 수 있음은 물론, 슬라이드 이외의 다른 방식에 의한 움직임으로 임시 결제카드를 선택하는 것으로도 구현가능하다.

<55> 또한, 위 실시예들에서는 결제 가능 시간이 경과하면, 모바일 결제카드가 원 위치로 복귀하면서 임시 결제카드 설정이 해제되는 것으로 도시하고 설명하였으나, 이 역시 예시적인 것으로 변형이 가능하다.

<56> 예를 들어, 결제 가능 시간이 경과 한 후에, 모바일 결제카드가 사라지거나 폭발하여 흩어지는 등의 시각적 효과로 처리하는 것이 가능하다. 더 나아가, 결제 가능 시간이 경과함에 따라, 모바일 결제카드가 점진적으로 사라지거나 흩어지는 등의 시각적 효과로 처리하는 것도 가능하다.

<57> 한편, 위 실시예들에서 사용자가 선택하는 대상이 모바일 결제카드가 아닌 다른 것인 경우에도 본 발명의 기술적 사상이 적용될 수 있다.

<58> 예를 들어, 모바일 기기에 발급된 모바일 부가 서비스(모바일 쿠폰, 모바일 포인트, 모바일 멤버십 등)들의 리스트를 표시하고, 리스트에 나열된 모바일 부가 서비스들 중 사용자에게 의해 슬라이드-업 된 모바일 부가 서비스를 사용가능하도록 설정할 수 있도록 구현가능하다.

<59> 이때, 모바일 부가 서비스를 사용할 수 있는 사용 가능 시간을 제한하여, 이

사용 가능 시간이 경과 하면, 모바일 부가 서비스 사용이 불가능하도록 설정하고 모바일 부가 서비스가 슬라이드-다운 되도록 구현할 수 있다.

<60> 다른 한편으로, 사용자에게 의해 슬라이드-업 된 모바일 부가 서비스에 대한 세부 정보를 표시하는 것도 가능하다. 여기서, 모바일 부가 서비스 세부 정보는, 1) 모바일 쿠폰의 경우 모바일 쿠폰 번호, 바코드, QR 코드 등이고, 2) 모바일 포인트의 경우 모바일 포인트 카드 번호, 모바일 포인트 점수 등이며, 3) 모바일 멤버십의 경우 모바일 멤버십 번호, 멤버십 ID 등이 된다.

<61> 이 경우에도, 모바일 부가 서비스를 사용할 수 있는 사용 가능 시간은 제한 되도록 구현하여, 이 사용 가능 시간이 경과 하면 표시되었던 서비스 세부 정보가 사라지도록 구현할 수 있다.

<62> 도 20은 본 발명의 또 다른 실시예에 따른 모바일 기기의 블럭도이다. 본 실시예에 따른 모바일 기기(100)는, 도 20에 도시된 바와 같이,

<63> 터치 스크린(110), 무선 통신부(120), 프로세서(130), NFC 모듈(Near Field Communication Module)(140), 메모리(150) 및 SE(160)를 구비한다.

<64> 터치 스크린(110)은 도 1 내지 도 19에 도시된 화면들이 표시되는 디스플레이로 기능하는 한편, 터치, D&D, 슬라이드 등의 사용자 조작을 입력받기 위한 사용자 입력 수단으로 기능하다.

<65> 무선 통신부(120)는 이동 통신과 무선 네트워킹을 위한 수단이고, NFC 모듈(140)은 POS의 NFC 리더와 통신하여 결제 정보와 모바일 부가 서비스 정보를 전달

하기 위한 모듈이다.

<66> 메모리(150)는 전술한 모바일 지갑 어플리케이션이 설치되는 저장매체이며, SE(160)는 전술한 모바일 결제카드, 모바일 부가 서비스 등이 발급되어 저장되는 저장매체로, UICC(Universal IC Card), e-SE(embedded-SE), SD 카드(Secure Digital Card) 등으로 구현가능하다. SE(160)에는 NFC 모듈(140)이 포함될 수도 있다.

<67> 프로세서(130)는, 터치 스크린(110)에 모바일 결제카드 리스트를 표시하고, 터치 스크린(110)을 통해 사용자가 선택한 모바일 결제카드를 임시 결제카드로 설정하며, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제한다.

<68> 또한, 프로세서(130)는 결제 가능한 잔여 시간을 표시하고, 사용자의 명령에 따라 임시 결제카드 설정을 해제하거나 결제 가능 시간을 연장하는 등, 전술한 도 1 내지 도 19에 나타나는 모든 인터랙션을 수행한다.

<69> 한편, 본 실시예에 따른 장치와 방법의 기능을 수행하게 하는 컴퓨터 프로그램을 수록한 컴퓨터로 읽을 수 있는 기록매체에도 본 발명의 기술적 사상이 적용될 수 있음은 물론이다. 또한, 본 발명의 다양한 실시예에 따른 기술적 사상은 컴퓨터로 읽을 수 있는 기록매체에 기록된 컴퓨터로 읽을 수 있는 코드 형태로 구현될 수도 있다. 컴퓨터로 읽을 수 있는 기록매체는 컴퓨터에 의해 읽을 수 있고 데이터를 저장할 수 있는 어떤 데이터 저장 장치이더라도 가능하다. 예를 들어, 컴퓨터로 읽을 수 있는 기록매체는 ROM, RAM, CD-ROM, 자기 테이프, 플로피 디스크, 광 디스크, 하드 디스크 드라이브, 등이 될 수 있음은 물론이다. 또한, 컴퓨터로 읽

을 수 있는 기록매체에 저장된 컴퓨터로 읽을 수 있는 코드 또는 프로그램은 컴퓨터간에 연결된 네트워크를 통해 전송될 수도 있다.

<70> 또한, 이상에서는 본 발명의 바람직한 실시예에 대하여 도시하고 설명하였지만, 본 발명은 상술한 특정의 실시예에 한정되지 아니하며, 청구범위에서 청구하는 본 발명의 요지를 벗어남이 없이 당해 발명이 속하는 기술분야에서 통상의 지식을 가진자에 의해 다양한 변형실시가 가능한 것은 물론이고, 이러한 변형실시들은 본 발명의 기술적 사상이나 전망으로부터 개별적으로 이해되어져서는 안될 것이다.

【부호의 설명】

<71> 100 : 모바일 기기 110 : 터치 스크린
 120 : 무선 통신부 130 : 프로세서
 140 : NFC(Near Field Communication) 모듈
 150 : 메모리 160 : SE(Secure Element)

【특허청구범위】

【청구항 1】

모바일 결제카드들의 리스트를 표시하는 단계;

상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하는 단계; 및

결제 가능 시간이 경과 하면, 임시 결제카드 설정을 해제하는 단계;를 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 2】

제 1항에 있어서,

움직여진 모바일 결제카드가 상기 사용자에게 의해 원위치로 이동되면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 3】

제 1항에 있어서,

결제 가능한 잔여 시간을 표시하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 4】

제 1항에 있어서,

상기 결제 가능 시간 내에 결제가 이루어지면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 5】

제 1항에 있어서,

상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 원위치로 이동시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 6】

제 1항에 있어서,

상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 원위치에 점진적으로 이동시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 7】

제 1항에 있어서,

상기 결제 가능 시간이 경과 하기 전에, 상기 임시 결제카드로 설정된 모바일 결제카드가 상기 사용자에게 의해 다시 움직여지면, 상기 결제 가능 시간을 연장시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 8】

제 7항에 있어서,

상기 설정단계에서 사용자에게 의한 움직임은,

상기 연장단계에서 사용자에게 의한 움직임과 동일한 방식의 움직임인 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 9】

제 1항에 있어서,

상기 결제 가능 시간이 경과 하기 전에, 상기 모바일 기기가 상기 사용자에게 의해 특정 패턴으로 움직여지면 상기 결제 가능 시간을 연장시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 10】

제 1항에 있어서,

상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결

제카드를 사라지게 하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 11】

제 1항에 있어서,

상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 점진적으로 사라지게 하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 12】

제 1항에 있어서,

상기 결제 가능한 잔여 시간이 임계치 이하이면, 알람을 출력하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 13】

제 1항에 있어서,

상기 모바일 기기에 발급된 부가 서비스들의 리스트를 표시하는 단계; 및

상기 리스트에 나열된 부가 서비스들 중 사용자에게 의해 움직여진 부가 서비스를 사용할 수 있도록 설정하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결

제카드 설정 방법.

【청구항 14】

제 13항에 있어서,
사용 가능 시간이 경과 하면, 상기 부가 서비스를 사용 불가능하도록 설정하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.

【청구항 15】

모바일 결제카드들의 리스트가 표시되는 터치 스크린; 및
상기 터치 스크린에 표시된 상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 프로세서;를 포함하는 것을 특징으로 하는 모바일 기기.

【요약서】**【요약】**

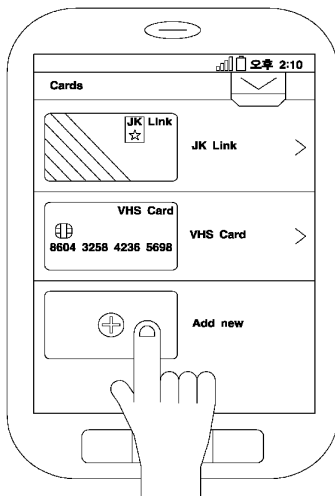
임시 결제카드 설정 방법 및 이를 적용한 모바일 기기가 제공된다. 본 발명의 실시예에 따른 임시 결제카드 설정 방법은, 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제한다. 이에 의해, 일시적인 결제카드 변경을 보다 편리하고 빠르게 할 수 있게 된다.

【대표도】

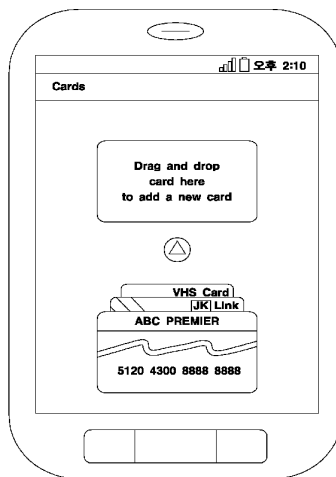
도 12

【도면】

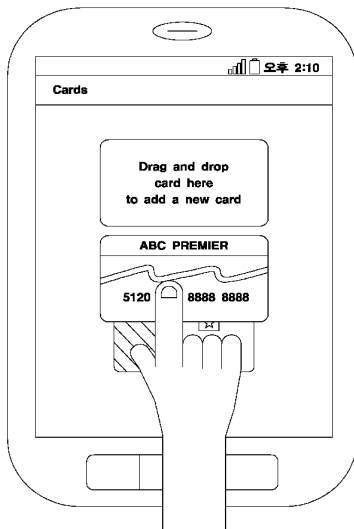
【도 1】



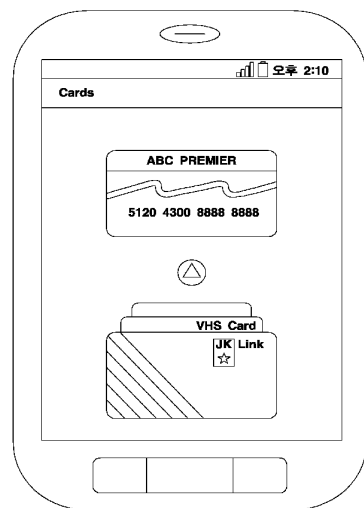
【도 2】



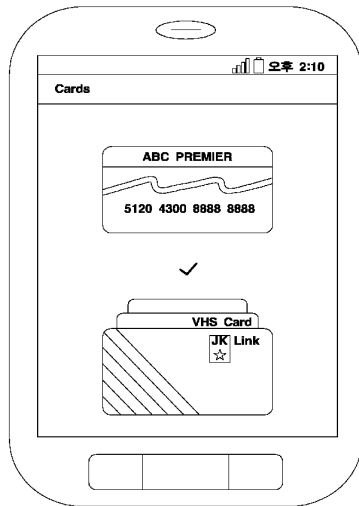
【도 3】



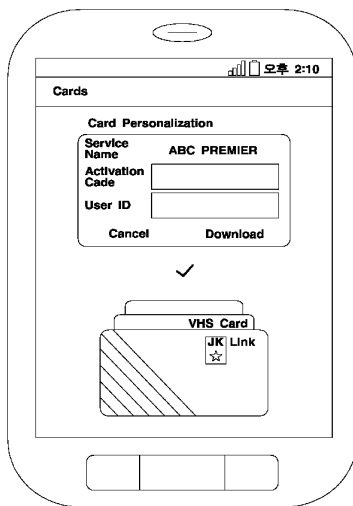
【도 4】



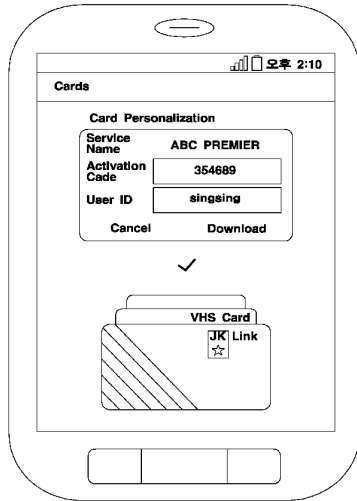
【도 5】



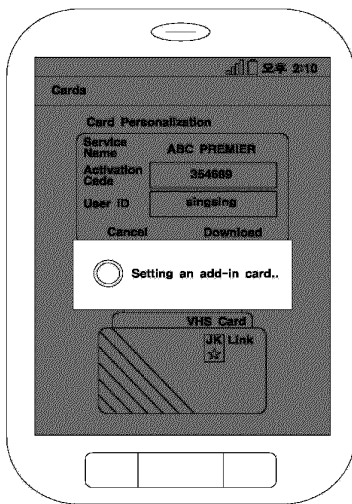
【도 6】



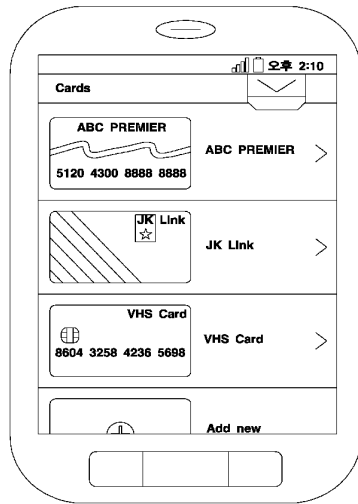
【도 7】



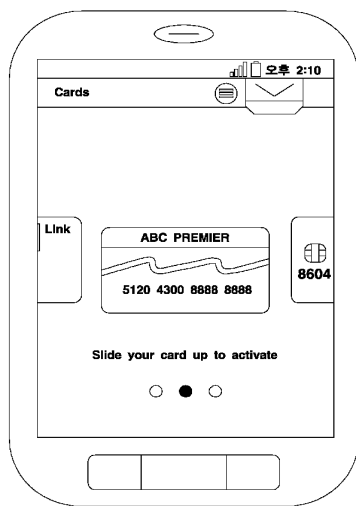
【도 8】



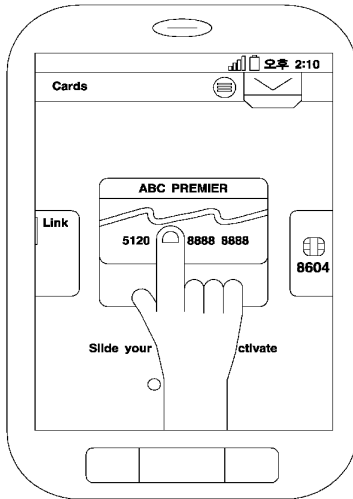
【도 9】



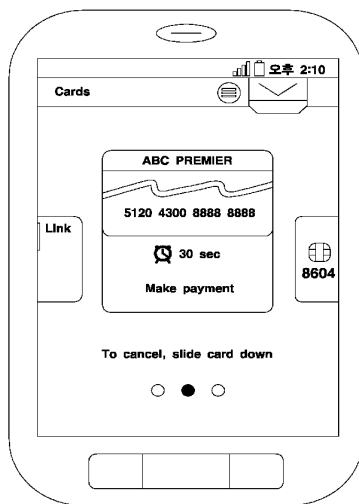
【도 10】



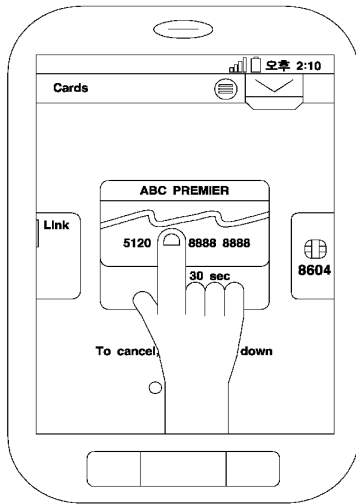
【도 11】



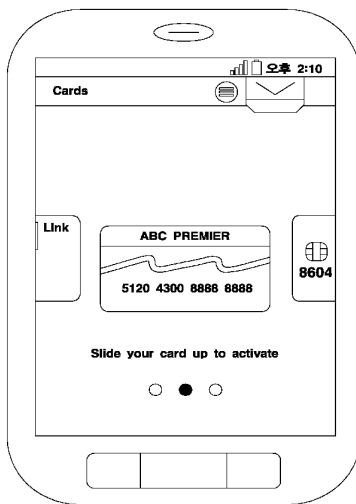
【도 12】



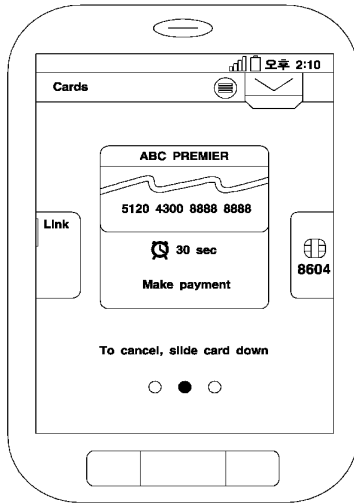
【도 13】



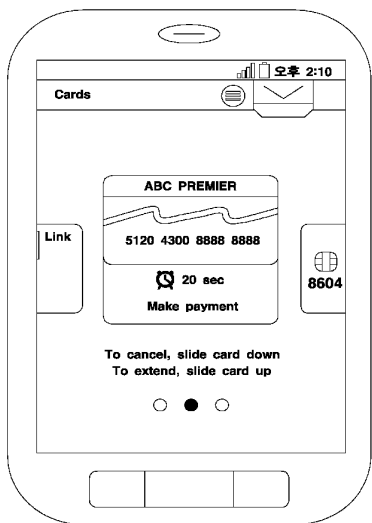
【도 14】



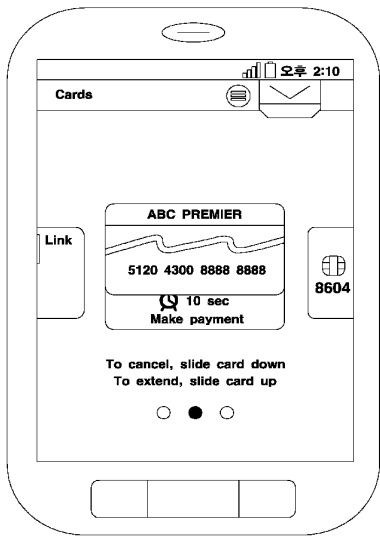
【도 15】



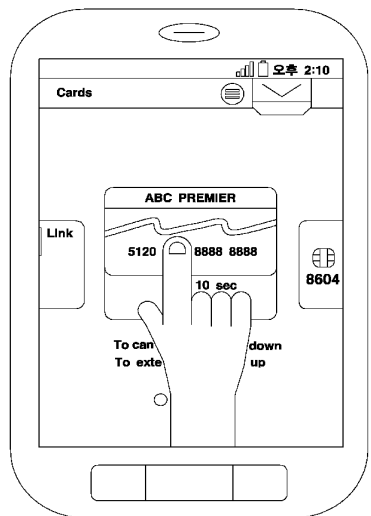
【도 16】



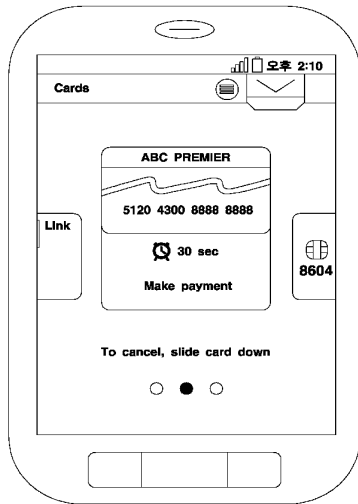
【도 17】



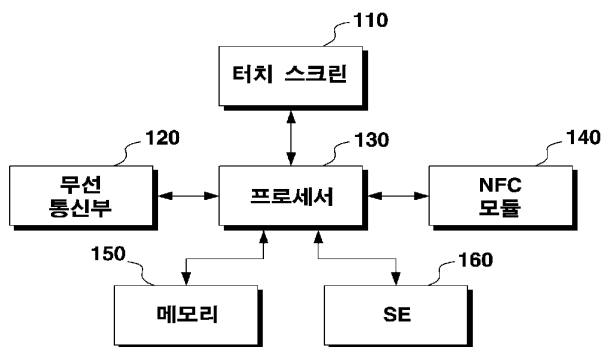
【도 18】



【도 19】



【도 20】



**DOCUMENT MADE AVAILABLE UNDER THE
PATENT COOPERATION TREATY (PCT)**

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PCT 출원서

출력(전자적 형태가 원본)

0	수리관청 전용	
0-1	국제출원번호	PCT/KR2013/007775
0-2	국제출원일자	2013년 08월 29일 (29.08.2013)
0-3	수리관청 명칭 및 "PCT 국제출원"	RO/KR
0-4	서식 PCT/RO/101 - PCT 출원서	
0-4-1	우측에 기재된 바와 같이 작성되었다.	PCT-SAFE 버전 3.51.059.235 MT/FOP 20130401/0.20.5.21
0-5	신청 아래 서명인은 본 국제 출원서가 특허협력조약에 의해 처리될 것을 청구합니다.	
0-6	출원인이 지정한 수리관청	대한민국 특허청 (RO/KR)
0-7	출원인 또는 대리인의 서류참조기호	OHP0054PCT
I	발명의 명칭	임시 결제카드 설정 방법 및 이를 적용한 모바일 기기
II	출원인	
II-1	이 사람은	오직 출원인 (applicant only)
II-2	우측 지정국에 관한 출원인	모든 지정국 (all designated States)
II-4ko	성명	에스케이씨앤씨 주식회사
II-4en	Name:	SK C&C CO., LTD.
II-5ko	주소	대한민국 463-844 경기도 성남시 분당구 정자동 25-1번지 에스케이 유- 타워
II-5en	Address:	SK u- Tower, 25-1 Jeongja-dong, Bundang-gu Seongnam-si Gyeonggi-do 463-844 Republic of Korea
II-6	국적	대한민국 KR
II-7	거주국	대한민국 KR
II-8	전화번호	82-2-6400-5359
II-9	팩스번호	82-2-6400-0273
II-10	이메일 주소	cjn99@sk.com
II-10(a)	이메일 사용동의 수리관청, 국제조사기관, 국제사무국, 국제예비심사기관이 필요 시 이 이메일 주소를 사용하여 이 국제 출원과 관련하여 발행된 통지서를 송부할 것에 동의한다.	서면 통지서에 앞서 선람용 사본 송부
II-11	출원인 코드	1-1999-029895-8

PCT 출원서

출력(전자적 형태가 원본)

III-1 III-1-1 III-1-3 III-1-4ko III-1-4en III-1-5ko III-1-5en	출원인 및/또는 발명자 이 사람은 우측 지정국에 관한 발명자 성명 Name (LAST, First): 주소 Address:	오직 발명자 (inventor only) 전민환 JEON, Min Hwan 대한민국 464-925 경기도 광주시 오포읍 신현리 675-6 675-6, Sinhyeon-ri, Opo-eup Gwangju-si Gyeonggi-do 464-925 Republic of Korea
IV-1 IV-1-1ko IV-1-1en IV-1-2ko IV-1-2en IV-1-3 IV-1-4 IV-1-5 IV-1-5(a) IV-1-6	대리인 또는 대표자 아래 기재된 자는 관할 국제기관에 대하여 우측에 표시된 자격으로 출원인을 대리하는 것으로 선임되었다. 성명 Name (LAST, First): 주소 Address: 전화번호 팩스번호 이메일 주소 이메일 사용동의 수리관청, 국제조사기관, 국제사무국, 국제예비심사기관이 필요 시 이 이메일 주소를 사용하여 이 국제 출원과 관련하여 발행된 통지서를 송부할 것에 동의한다. 대리인 코드	대리인 한지나 HAN, Gee Na 대한민국 135-854 서울시 강남구 도곡동 517-18 경빈빌딩 6층 6F., Kyungbin Bldg., 517-18 Dogok-dong Gangnam-gu Seoul 135-854 Republic of Korea 82-2-2051-4701 82-2-2051-4703 gnhan@hanpatent.co.kr 서면 통지서에 앞서 선람용 사본 송부 9-2005-000113-6
IV-2 IV-2-1ko IV-2-1en	추가 대리인 성명 Name(s)	최초 기재된 대리인과 동일한 주소를 갖는 새로운 대리인(들) 양, 성환(9-2005-000109-7) YANG, Sung Hwan(9-2005-000109-7)
V	지정국	
V-1	본 출원서의 제출로, 규칙 4.9(a)에 따라, 부여될 수 있는 모든 종류의 권리 보호를 위하여, 그리고 해당하는 경우 지역특허 및 국내특허 모두를 위하여 당해 국제출원일에 PCT에 기속되는 모든 계약국이 지정된다.	
V-2	V-2란은 출원서 제출시 또는 규칙 26의2.1에 의해 그 이후 출원서 제6기재란에 위 특정 관련 계약국의 국내 선출원에 대한 우선권주장이 포함되어 있을 경우 당해 계약국의 국내법에 의해 해당 국내 선출원의 효력이 상실되는 것을 방지하기 위한 목적으로 당해 계약국의 지정을 제외하는 데에만 사용될 수 있다 (지정 제외시 이의 취소 불가능).	KR

PCT 출원서

출력(전자적 형태가 원본)

VI-1	신국내출원에 대한 우선권 주장		
VI-1-1	출원일	2012년 11월 28일 (28.11.2012)	
VI-1-2	출원번호	10-2012-0135940	
VI-1-3	국가	KR	
VI-2	우선권서류 신청 수리관청에 대하여 위에 명시된 선출원의 인증등본을 준비하여 국제사무국에 송부하여 줄 것을 신청한다.	VI-1	
VI-3	인용에 의한 보완 조약 제11조(1)(iii)(d) 또는 (e)에서 규정하는 국제출원의 요소, 또는 규칙 20.5(a)에서 규정하는 명세서, 청구 범위 또는 도면의 일부가 본 국제출원에는 포함되어 있지 않지만 조약 제11조(1)(iii) 규정의 요소 중 하나 이상이 수리관청에 최초로 접수된 날에 우선권주장의 기초가 된 선출원에 완전히 포함되어 있는 경우, 그 요소 또는 부분은 규칙 20.6 규정에 의한 확인을 조건으로, 규칙 20.6의 규정과 관련하여 본 국제출원에 있어서 인용에 의해 보완된다.		
VII-1	국제조사기관(ISA) 선택	대한민국 특허청 (ISA/KR)	
VIII	선언서	선언서 개수	
VIII-1	발명자의 친원에 관한 선언	-	
VIII-2	국제출원일에 특허출원 및 특허를 받을 수 있는 출원인의 자격에 관한 선언	-	
VIII-3	국제출원일에 선출원의 우선권을 주장할 수 있는 출원인의 자격에 관한 선언	-	
VIII-4	발명자 선언(미국에 대한 지정의 경우에 한함)	-	
VIII-5	신규성을 해치지 아니하는 개시 또는 신규성 상실의 예외에 관한 선언	-	
IX	체크 리스트	용지 수	전자적 파일 첨부
IX-1	출원서(선언서 포함)	4	✓
IX-2	명세서	8	✓
IX-3	청구범위	2	✓
IX-4	요약서	1	✓
IX-5	도면	19	✓
IX-7	용지매수 소개	34	
	첨부 항목	서면 첨부	전자적 파일 첨부
IX-8	수수료 계산 용지	-	✓
IX-9	개별위임장 원본	-	✓
IX-18	PCT-SAFE 전자출원 매체	-	-
IX-20	요약서에 수반되어야 할 도면 번호	12	
IX-21	국제출원의 출원 언어	한국어	
X-1	출원인, 대리인 또는 대표자의 서명 또는 날인	(PKCS7 전자서명)	
X-1-1	성명	한 지나	
X-1-2	서명인의 성명		
X-1-3	권한 (출원서를 통해 서명자의 자격이 명백하지 않은 경우에는 그 자격도 표시)		

수리관청 전용

10-1	국제출원으로 제출된 서류의 실제 접수일	2013년 08월 29일 (29.08.2013)
10-2	도면	
10-2-1	접수	
10-2-2	미접수	
10-3	국제출원으로 제출된 서류를 완성하는 서류 또는 도면의 추후 기간내 제출에 따른 정정된 실제 접수일	
10-4	PCT 제11조(2)에 따라 제출이 요구된 보완서로서 기간내 제출된 보완서의 접수일	
10-5	국제조사기관(ISA)	ISA/KR
10-6	조사료 납부시까지 지연된 조사용 사본의 송부	

국제 사무국 전용

11-1	국제 사무국의 기록원본 접수일	
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(12) 특허협력조약에 의하여 공개된 국제출원

(19) 세계지식재산권기구
국제사무국

(43) 국제공개일
2014년 6월 5일 (05.06.2014)



(10) 국제공개번호
WO 2014/084484 A1

- (51) 국제특허분류:
G06Q 20/32 (2012.01)
- (21) 국제출원번호: PCT/KR2013/007775
- (22) 국제출원일: 2013년 8월 29일 (29.08.2013)
- (25) 출원언어: 한국어
- (26) 공개언어: 한국어
- (30) 우선권정보:
10-2012-0135940 2012년 11월 28일 (28.11.2012) KR
- (71) 출원인: 에스케이씨앤씨 주식회사 (SK C&C CO., LTD.) [KR/KR]; 463-844 경기도 성남시 분당구 정자동 25-1 번지 에스케이 유-타워, Gyeonggi-do (KR).
- (72) 발명자: 전민환 (JEON, Min Hwan); 464-925 경기도 광주시 오포읍 신현리 675-6, Gyeonggi-do (KR).
- (74) 대리인: 한지나 (HAN, Gee Na) 등; 135-854 서울시 강남구 도곡동 517-18 경빈빌딩 6층, Seoul (KR).
- (81) 지정국 (별도의 표시가 없는 한, 가능한 모든 종류의 국내 권리의 보호를 위하여): AE, AG, AL, AM, AO,

AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

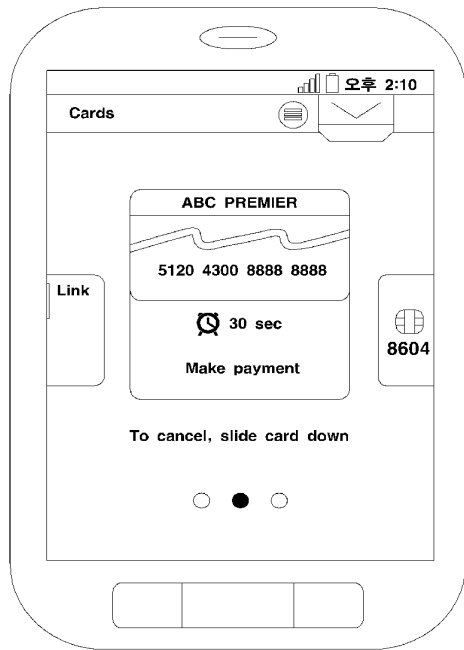
(84) 지정국 (별도의 표시가 없는 한, 가능한 모든 종류의 역내 권리의 보호를 위하여): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), 유라시아 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 유럽 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

공개:

- 국제조사보고서와 함께 (조약 제 21 조(3))

(54) Title: METHOD FOR SETTING TEMPORARY PAYMENT CARD, AND MOBILE DEVICE APPLYING SAME

(54) 발명의 명칭 : 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기



(57) Abstract: Provided are a method for setting a temporary payment card and a mobile device applying same. According to one embodiment of the present invention, the method for setting a temporary payment card sets a mobile payment card moved by a user to be a temporary payment card from among mobile payment cards enumerated in a list, and when the payable time passes, the settings for the temporary payment card are negated. According to the present invention, a change of the temporary payment card can be performed conveniently and rapidly.

(57) 요약서: 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기가 제공된다. 본 발명의 실시예에 따른 임시 결제카드 설정 방법은, 리스트에 나열된 모바일 결제카드들 중 사용자에 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제한다. 이에 의해, 일시적인 결제카드 변경을 보다 편리하고 빠르게 할 수 있게 된다.

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명세서

발명의 명칭: 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기

기술분야

- [1] 본 발명은 결제카드 설정 방법에 관한 것으로, 더욱 상세하게는 대금 결제에 사용할 모바일 결제카드를 설정하기 위한 방법 및 이를 적용한 모바일 기기에 관한 것이다.

배경기술

- [2] 중복 결제를 방지하기 위해, 모바일 지갑 어플리케이션(Mobile Wallet Application)은 발급된 모바일 결제카드들 중 하나를 주 결제카드로 설정하여 대금을 결제한다.
- [3] 주 결제카드가 아닌 다른 모바일 결제카드로 대금을 결제하는 것도 가능하지만, 그렇게 하기 위해서는 사용자가 결제를 원하는 모바일 결제카드를 주 결제카드로 설정하는 작업이 선행되어야 한다.
- [4] 한편, 다른 모바일 결제카드를 이용한 대금 결제가 일시적인 경우(즉, 1회성인 경우), 사용자는 결제가 완료된 후에 다시 원래의 주 결제카드를 복원시켜야 하는데, 이는 사용자를 매우 번거롭고 불편하게 하는 요인이다.
- [5] 또한, 주 결제카드를 다른 모바일 결제카드로 변경하는 조작 역시, 모바일 커머스가 활성화되지 않은 현 시점을 고려할 때, 사용자에게 불편함, 복잡함, 그리고, 어색함으로 작용할 것이다.

발명의 상세한 설명

기술적 과제

- [6] 본 발명은 상기와 같은 문제점을 해결하기 위하여 안출된 것으로서, 본 발명의 목적은, 일시적인 결제카드 변경을 보다 편리하고 빠르며 친숙하고 재미있으며 직관적으로 하기 위한 방안으로, 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 임시 결제카드 설정 방법 및 이를 적용한 모바일 기기를 제공함에 있다.

과제 해결 수단

- [7] 상기 목적을 달성하기 위한 본 발명의 일 실시예에 따른, 임시 결제카드 설정 방법은, 모바일 결제카드들의 리스트를 표시하는 단계; 상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하는 단계; 및 결제 가능 시간이 경과 하면, 임시 결제카드 설정을 해제하는 단계;를 포함한다.
- [8] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 움직여진 모바일 결제카드가 상기 사용자에게 의해 원위치로 이동되면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함할 수 있다.

- [9] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 결제 가능한 잔여 시간을 표시하는 단계;를 더 포함할 수 있다.
- [10] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 시간 내에 결제가 이루어지면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함할 수 있다.
- [11] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 원위치로 이동시키는 단계;를 더 포함할 수 있다.
- [12] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 원위치에 점진적으로 이동시키는 단계;를 더 포함할 수 있다.
- [13] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 시간이 경과 하기 전에, 상기 임시 결제카드로 설정된 모바일 결제카드가 상기 사용자에게 의해 다시 움직여지면, 상기 결제 가능한 시간을 연장시키는 단계;를 더 포함할 수 있다.
- [14] 그리고, 상기 설정단계에서 사용자에게 의한 움직임은, 상기 연장단계에서 사용자에게 의한 움직임과 동일한 방식의 움직임일 수 있다.
- [15] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 시간이 경과 하기 전에, 상기 모바일 기기가 상기 사용자에게 의해 특정 패턴으로 움직여지면 상기 결제 가능한 시간을 연장시키는 단계;를 더 포함할 수 있다.
- [16] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 사라지게 하는 단계;를 더 포함할 수 있다.
- [17] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 점진적으로 사라지게 하는 단계;를 더 포함할 수 있다.
- [18] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 결제 가능한 잔여 시간이 임계치 이하이면, 알람을 출력하는 단계;를 더 포함할 수 있다.
- [19] 또한, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 상기 모바일 기기에 발급된 부가 서비스들의 리스트를 표시하는 단계; 및 상기 리스트에 나열된 부가 서비스들 중 사용자에게 의해 움직여진 부가 서비스를 사용할 수 있도록 설정하는 단계;를 더 포함할 수 있다.
- [20] 그리고, 본 발명의 일 실시예에 따른 임시 결제카드 설정 방법은, 사용 가능한 시간이 경과 하면, 상기 부가 서비스를 사용 불가능하도록 설정하는 단계;를 더 포함할 수 있다.
- [21] 한편, 본 발명의 다른 실시예에 따른, 모바일 기기는, 모바일 결제카드들의 리스트가 표시되는 터치 스크린; 및 상기 터치 스크린에 표시된 상기 리스트에

나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 프로세스;를 포함한다.

발명의 효과

- [22] 이상 설명한 바와 같이, 본 발명의 실시예들에 따르면, 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하게 되어, 일시적인 결제카드 변경을 보다 편리하고 빠르게 할 수 있게 된다.
- [23] 또한, 결제 가능 시간은 사용자에게 의해 원하는 적정 시간으로 설정 가능할 뿐만 아니라, 연장시키거나 강제 종료시키는 것도 가능하여, 사용자의 편리함은 배가 될 수 있다.
- [24] 아울러, 다양한 시각적인 효과와 애니메이션 효과 등으로 인해 친숙하고 직관적인 조작에 의한 임시 결제카드 설정이 가능할 뿐만 아니라, 조작상의 과정에서 사용자에게 재미와 즐거움을 부여할 수 있다.

도면의 간단한 설명

- [25] 도 1은 모바일 결제카드 관리 화면이 나타난 모바일 기기를 도시한 도면,
 [26] 도 2는 모바일 결제카드 추가 화면을 도시한 도면,
 [27] 도 3은 사용자가 모바일 결제카드 리스트에 추가할 모바일 결제카드를 드래그하는 화면을 도시한 도면,
 [28] 도 4는 모바일 결제카드 추가 화면의 상부에 마련된 추가 영역에 모바일 결제카드를 드롭시킨 화면을 도시한 도면,
 [29] 도 5는 모바일 결제카드 추가 화면의 중앙에 모바일 결제카드가 선택 안내 마크가 표시된 화면을 도시한 도면,
 [30] 도 6은 모바일 결제카드의 "Activation Code"와 "User ID"를 입력하기 위한 입력창이 나타난 모바일 기기를 도시한 도면,
 [31] 도 7은 입력창을 통해 사용자가 "Activation Code"와 "User ID"를 입력을 완료한 상태를 도시한 도면,
 [32] 도 8은 모바일 결제카드 추가 처리 수행중을 안내하는 화면을 도시한 도면,
 [33] 도 9는 모바일 결제카드가 추가된 모바일 결제카드 관리 화면을 도시한 도면,
 [34] 도 10은 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면,
 [35] 도 11은 사용자가 모바일 결제카드를 슬라이드-업 시킨 상황을 도시한 도면,
 [36] 도 12는 슬라이드-업 조작에 의해 모바일 결제카드가 결제카드 선택 화면의 상부로 이동한 결과를 도시한 도면,
 [37] 도 13은 사용자가 작위적으로 임시 결제카드를 슬라이드-다운시킨 경우를 도시한 도면,
 [38] 도 14는 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일

- 기기를 도시한 도면,
- [39] 도 15는 사용자에게 의해 모바일 결제카드가 슬라이드-업 되어 임시 결제카드로 선택/설정된 결과를 도시한 도면,
- [40] 도 16은 결제 가능 시간이 10초 경과 후의 결제카드 선택 화면을 도시한 도면,
- [41] 도 17은 결제 가능 시간이 20초 경과 후의 결제카드 선택 화면을 도시한 도면,
- [42] 도 18은 결제 가능 시간이 경과 하기 전에 사용자에게 의해 모바일 결제카드가 다시 슬라이드-업 되는 상황을 도시한 도면,
- [43] 도 19는 결제 가능 시간이 연장된 상태를 도시한 도면, 그리고,
- [44] 도 20은 본 발명이 적용가능한 모바일 기기의 블록도이다.

발명의 실시를 위한 최선의 형태

- [45] 이하에서는 도면을 참조하여 본 발명을 보다 상세하게 설명한다.
- [46] 도 1은 모바일 결제카드 관리 화면이 나타난 모바일 기기를 도시한 도면이다. 도 1에 도시된 모바일 결제카드 관리 화면에서, 사용자는 "Add new" 항목을 선택하여 모바일 결제카드를 리스트에 추가할 수 있다.
- [47] "Add new" 항목이 사용자에게 의해 선택된 경우에 제공되는 모바일 결제카드 추가 화면이 나타난 모바일 기기를 도 2에 도시하였다. 도 2에 도시된 바와 같이, 모바일 결제카드 추가 화면의 하부에는 모바일 기기의 SE(Secure Element)에 발급된 모바일 결제카드들이 나타난다.
- [48] 도 3에 도시된 바와 같이 사용자가 모바일 결제카드 리스트에 추가할 모바일 결제카드를 드래그(Drag)하여, 도 4에 도시된 바와 같이 모바일 결제카드 추가 화면의 상부에 마련된 추가 영역에 드롭(Drop)시키면, 도 5에 도시된 바와 같이 모바일 결제카드 추가 화면의 중앙에는 추가할 모바일 결제카드가 선택 완료되었음을 안내하는 마크 "V"가 표시된다.
- [49] 이후, 도 6에 도시된 바와 같이, 모바일 결제카드 추가 화면에서 D&D(Drag&Drop)된 모바일 결제카드가 사라지고, 그 모바일 결제카드의 "Activation Code"와 "User ID"를 입력하기 위한 입력창이 나타난다.
- [50] 도 7에 도시된 바와 같이, 입력창을 통해 사용자가 "Activation Code"와 "User ID"를 각각 입력하면, 도 8에 도시된 바와 같이 모바일 결제카드 추가 처리가 수행되어, 도 9에 도시된 바와 같이 모바일 결제카드 관리 화면 상의 리스트에 선택된 모바일 결제카드가 추가된다.
- [51] 리스트에 나열된 모바일 결제카드들 중 하나는 주 결제카드로 설정되어, 모바일 기기를 이용한 대금 결제시 결제 수단으로 이용된다. 주 결제카드는 모바일 결제카드 관리 화면을 통해 설정할 수 있음은 물론 모바일 지갑 어플리케이션(Mobile Wallet Application)을 통해서도 설정할 수 있다.
- [52] 한편, 주 결제카드가 아닌 다른 모바일 결제카드를 이용한 일시적인 대금 결제도 가능하데, 이를 위해서는 일시적인 대금 결제에 이용할 모바일 결제카드를 임시 결제카드로 설정하여야 한다.

- [53] 이하에서, 본 발명의 일 실시예에 따른 임시 결제카드 설정방법에 대해, 도 10 내지 도 13을 참조하여 상세히 설명한다. 설명과 이해의 편의를 위해, 주 결제카드로 설정된 모바일 결제카드는 "VHS Card"이고, 임시 결제카드로 설정할 모바일 결제카드는 "ABC PREMIER" 카드인 것으로 상정하겠다.
- [54] 도 10은 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면이다. 도 10에 도시된 바와 같이, 결제카드 선택 화면에는 모바일 결제카드 리스트가 커버 플로우 형식(Cover Flow View)으로 나타난다.
- [55] 사용자는 모바일 결제카드 리스트에서 임시 결제카드로 이용할 모바일 결제카드를 슬라이드-업(Slide-Up) 하여 선택할 수 있다. 도 11에는 사용자가 "ABC PREMIER" 카드를 임시 결제카드로 선택하기 위해 슬라이드-업 시킨 상황을 도시하였고, 도 12에는 사용자의 슬라이드-업 조작에 의해 "ABC PREMIER" 카드가 결제카드 선택 화면의 상부로 이동한 결과를 도시하였다.
- [56] 사용자의 슬라이드-업 조작은, 도 10에 도시된 "ABC PREMIER" 카드의 위치로부터 도 12에 도시된 "ABC PREMIER" 카드의 위치까지 이루어져야 하는 것은 아니다. 약간의 슬라이드-업 조작에 의해서도, "ABC PREMIER" 카드가 도 10에 도시된 위치로부터 도 12에 도시된 위치까지 자동으로 이동하도록 애니메이션 효과를 부여하는 것이 가능하다.
- [57] 이와 같이, 사용자에 의해 슬라이드-업 된 "ABC PREMIER" 카드는 임시 결제카드로 설정된다. 이에, POS(Point Of Sale)의 NFC(Near Field Communication) 리더와 같은 모바일 결제용 리더에 모바일 기기를 접촉시키면, 임시 결제카드인 "ABC PREMIER" 카드에 의한 대금 결제가 이루어진다.
- [58] 임시 결제카드에 의한 대금 결제는 '결제 가능 시간' 내에 이루어져야 한다. 즉, 결제 가능 시간이 경과 하면, 임시 결제카드 설정이 해제되어, 주 결제카드로 결제가 이루어진다.
- [59] 한편, 결제 가능한 잔여 시간이, 도 12에 도시된 바와 같이 사용자에게 안내된다. 결제 가능 시간은 전술한 모바일 결제카드 관리 화면이나 모바일 지갑 어플리케이션을 통해 사용자가 자유로이 설정/변경할 수 있다.
- [60] 결제 가능 시간이 경과 하면, 슬라이드-업 되었던 "ABC PREMIER" 카드가 슬라이드-다운(Slide-Down) 되어, 도 10에 도시된 원위치로 이동한다. 임시 결제카드 설정이 해제되었음을 사용자가 인지할 수 있도록 하기 위해, 슬라이드-다운은 슬라이드-업 속도 보다 느리게 처리함이 바람직하다. 더 나아가, 임시 결제카드 설정 해제를 안내하기 위한 안내 멘트를 시각 정보나 음성/음향 정보로 출력할 수 있음은 물론 진동을 통해서도 안내할 수 있다.
- [61] 결제 가능 시간 내에 결제가 이루어진 경우에도, 임시 결제카드 설정이 해제된다. 이는, 중복 결제를 방지하기 위함이다.
- [62] 한편, 결제 가능 시간이 남아 있더라도, 도 13에 도시된 바와 같이 사용자가 작위적으로 임시 결제카드를 슬라이드-다운 시킨 경우에도, 임시 결제카드 설정은 해제된다.

- [63] 다른 한편으로, 결제 가능 시간 연장도 가능하다. 예를 들어, 결제 가능 시간이 경과 하기 전에, 모바일 기기가 사용자에게 의해 좌우로 3회 이상 반복하여 흔들린 경우, 결제 가능 시간이 연장되도록 구현가능하다. 여기서, 모바일 기기의 흔들림은 예시적인 것으로 다른 패턴의 움직임으로 대체가능하다.
- [64] 결제 가능 시간 연장이나 조속한 결제를 유도하기 위해, 결제 가능한 잔여 시간이 3초가 되면, 모바일 기기가 알람을 출력하도록 구현가능하다. 여기서, 알람은 임시 결제카드 설정 해제가 임박하였음을 안내하기 위한 안내 멘트를 시각 정보나 음성/음향 정보로 출력할 수 있음은 물론 진동을 통해서도 가능하다.
- [65] 이하에서, 본 발명의 다른 실시예에 따른 임시 결제카드 설정방법에 대해, 도 14 내지 도 19를 참조하여 상세히 설명한다.
- [66] 도 14는 모바일 지갑 어플리케이션의 결제카드 선택 화면이 나타난 모바일 기기를 도시한 도면이고, 도 15는 사용자에게 의해 "ABC PREMIER" 카드가 슬라이드-업 되어 임시 결제카드로 선택/설정된 결과를 도시하였다.
- [67] 또한, 도 15에서는 결제 가능한 잔여 시간을 "30초"로 안내하고 있다. 이후, 10초 경과 후의 결제카드 선택 화면이 도 16에 되어 있다. 도 16에 도시된 바에 따르면, "ABC PREMIER" 카드가 슬라이드-업 된 총 거리의 1/3 만큼 슬라이드-다운되었고, 결제 가능한 잔여 시간은 "20초"임을 확인할 수 있다.
- [68] 이후, 10초 더 경과 후의 결제카드 선택 화면이 도 17에 되어 있다. 도 17에 도시된 바에 따르면, "ABC PREMIER" 카드가 슬라이드-업 된 총 거리의 2/3 만큼 슬라이드-다운되었고, 결제 가능한 잔여 시간은 "10초"임을 확인할 수 있다.
- [69] 도 15 내지 도 17을 통해, 사용자에게 의해 슬라이드-업 된 모바일 결제카드, 즉 임시 결제카드로 선택/설정된 모바일 결제카드는, 결제 가능 시간이 경과함에 따라 서서히 슬라이드-다운 되어 원위치로 이동함을 확인할 수 있다. 이때, 슬라이드-다운된 거리는 결제 가능한 잔여 시간에 반비례한다.
- [70] 한편, 도 18에 도시된 바와 같이, 슬라이드-다운 되는 모바일 결제카드가 결제 가능 시간이 경과 하기 전에 사용자에게 의해 다시 슬라이드-업 되면, 도 19에 도시된 바와 같이 결제 가능 시간이 연장된다.
- [71] 본 실시예에서, 결제 가능 시간은 사용자에게 의한 슬라이드-업 거리에 비례하도록 구현가능하다. 즉, 사용자에게 의한 슬라이드-업 거리가 길수록 이미 결제 가능 시간도 길고, 사용자에게 의한 슬라이드-업 거리가 짧을수록 이미 결제 가능 시간도 짧게 구현하는 것이 가능하다. 그리고, 이는 임의 결제 시간 연장에도 동일하게 적용될 수 있다.
- [72] 지금까지, 임시 결제카드 설정방법에 대해 바람직한 실시예들을 들어 상세히 설명하였다.
- [73] 위 실시예들에서는, 모바일 결제카드를 슬라이드-업 시켜 임시 결제카드로 선택하는 것을 상정하였는데, 이는 설명의 편의를 위한 예시적인 것으로 변형이 가능하다. 즉, 슬라이드 방향을 다르게 구현할 수 있음은 물론, 슬라이드 이외의

다른 방식에 의한 움직임으로 임시 결제카드를 선택하는 것으로도 구현가능하다.

- [74] 또한, 위 실시예들에서는 결제 가능 시간이 경과하면, 모바일 결제카드가 원위치로 복귀하면서 임시 결제카드 설정이 해제되는 것으로 도시하고 설명하였으나, 이 역시 예시적인 것으로 변형이 가능하다.
- [75] 예를 들어, 결제 가능 시간이 경과 한 후에, 모바일 결제카드가 사라지거나 폭발하여 흩어지는 등의 시각적 효과로 처리하는 것이 가능하다. 더 나아가, 결제 가능 시간이 경과함에 따라, 모바일 결제카드가 점진적으로 사라지거나 흩어지는 등의 시각적 효과로 처리하는 것도 가능하다.
- [76] 한편, 위 실시예들에서 사용자가 선택하는 대상이 모바일 결제카드가 아닌 다른 것인 경우에도 본 발명의 기술적 사상이 적용될 수 있다.
- [77] 예를 들어, 모바일 기기에 발급된 모바일 부가 서비스(모바일 쿠폰, 모바일 포인트, 모바일 멤버십 등)들의 리스트를 표시하고, 리스트에 나열된 모바일 부가 서비스들 중 사용자에게 의해 슬라이드-업 된 모바일 부가 서비스를 사용가능하도록 설정할 수 있도록 구현가능하다.
- [78] 이때, 모바일 부가 서비스를 사용할 수 있는 사용 가능 시간을 제한하여, 이 사용 가능 시간이 경과 하면, 모바일 부가 서비스 사용이 불가능하도록 설정하고 모바일 부가 서비스가 슬라이드-다운 되도록 구현할 수 있다.
- [79] 다른 한편으로, 사용자에게 의해 슬라이드-업 된 모바일 부가 서비스에 대한 세부 정보를 표시하는 것도 가능하다. 여기서, 모바일 부가 서비스 세부 정보는, 1) 모바일 쿠폰의 경우 모바일 쿠폰 번호, 바코드, QR 코드 등이고, 2) 모바일 포인트의 경우 모바일 포인트 카드 번호, 모바일 포인트 점수 등이며, 3) 모바일 멤버십의 경우 모바일 멤버십 번호, 멤버십 ID 등이 된다.
- [80] 이 경우에도, 모바일 부가 서비스를 사용할 수 있는 사용 가능 시간은 제한되도록 구현하여, 이 사용 가능 시간이 경과 하면 표시되었던 서비스 세부 정보가 사라지도록 구현할 수 있다.
- [81] 도 20은 본 발명의 또 다른 실시예에 따른 모바일 기기의 블럭도이다. 본 실시예에 따른 모바일 기기(100)는, 도 20에 도시된 바와 같이, 터치 스크린(110), 무선 통신부(120), 프로세서(130), NFC 모듈(Near Field Communication Module)(140), 메모리(150) 및 SE(160)를 구비한다.
- [82] 터치 스크린(110)은 도 1 내지 도 19에 도시된 화면들이 표시되는 디스플레이로 기능하는 한편, 터치, D&D, 슬라이드 등의 사용자 조작용 입력받기 위한 사용자 입력 수단으로 기능한다.
- [83] 무선 통신부(120)는 이동 통신과 무선 네트워킹을 위한 수단이고, NFC 모듈(140)은 POS의 NFC 리더와 통신하여 결제 정보와 모바일 부가 서비스 정보를 전달하기 위한 모듈이다.
- [84] 메모리(150)는 전술한 모바일 지갑 어플리케이션이 설치되는 저장매체이며, SE(160)는 전술한 모바일 결제카드, 모바일 부가 서비스 등이 발급되어 저장되는

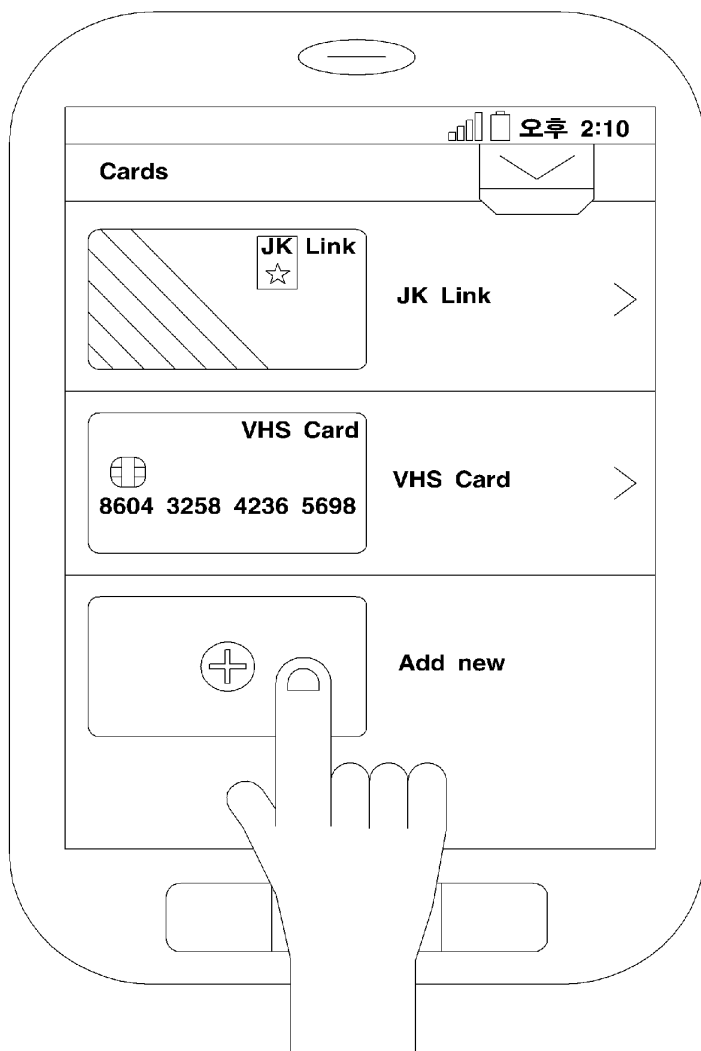
- 저장매체로, UICC(Universal IC Card), e-SE(embedded-SE), SD 카드(Secure Digital Card) 등으로 구현가능하다. SE(160)에는 NFC 모듈(140)이 포함될 수도 있다.
- [85] 프로세서(130)는, 터치 스크린(110)에 모바일 결제카드 리스트를 표시하고, 터치 스크린(110)을 통해 사용자가 선택한 모바일 결제카드를 임시 결제카드로 설정하며, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제한다.
- [86] 또한, 프로세서(130)는 결제 가능한 잔여 시간을 표시하고, 사용자의 명령에 따라 임시 결제카드 설정을 해제하거나 결제 가능 시간을 연장하는 등, 전술한 도 1 내지 도 19에 나타나는 모든 인터랙션을 수행한다.
- [87] 한편, 본 실시예에 따른 장치와 방법의 기능을 수행하게 하는 컴퓨터 프로그램을 수록한 컴퓨터로 읽을 수 있는 기록매체에도 본 발명의 기술적 사상이 적용될 수 있음은 물론이다. 또한, 본 발명의 다양한 실시예에 따른 기술적 사상은 컴퓨터로 읽을 수 있는 기록매체에 기록된 컴퓨터로 읽을 수 있는 코드 형태로 구현될 수도 있다. 컴퓨터로 읽을 수 있는 기록매체는 컴퓨터에 의해 읽을 수 있고 데이터를 저장할 수 있는 어떤 데이터 저장 장치이더라도 가능하다. 예를 들어, 컴퓨터로 읽을 수 있는 기록매체는 ROM, RAM, CD-ROM, 자기 테이프, 플로피 디스크, 광디스크, 하드 디스크 드라이브, 등이 될 수 있음은 물론이다. 또한, 컴퓨터로 읽을 수 있는 기록매체에 저장된 컴퓨터로 읽을 수 있는 코드 또는 프로그램은 컴퓨터간에 연결된 네트워크를 통해 전송될 수도 있다.
- [88] 또한, 이상에서는 본 발명의 바람직한 실시예에 대하여 도시하고 설명하였지만, 본 발명은 상술한 특정의 실시예에 한정되지 아니하며, 청구범위에서 청구하는 본 발명의 요지를 벗어남이 없이 당해 발명이 속하는 기술분야에서 통상의 지식을 가진자에 의해 다양한 변형실시가 가능한 것은 물론이고, 이러한 변형실시들은 본 발명의 기술적 사상이나 전망으로부터 개별적으로 이해되어져서는 안될 것이다.

청구범위

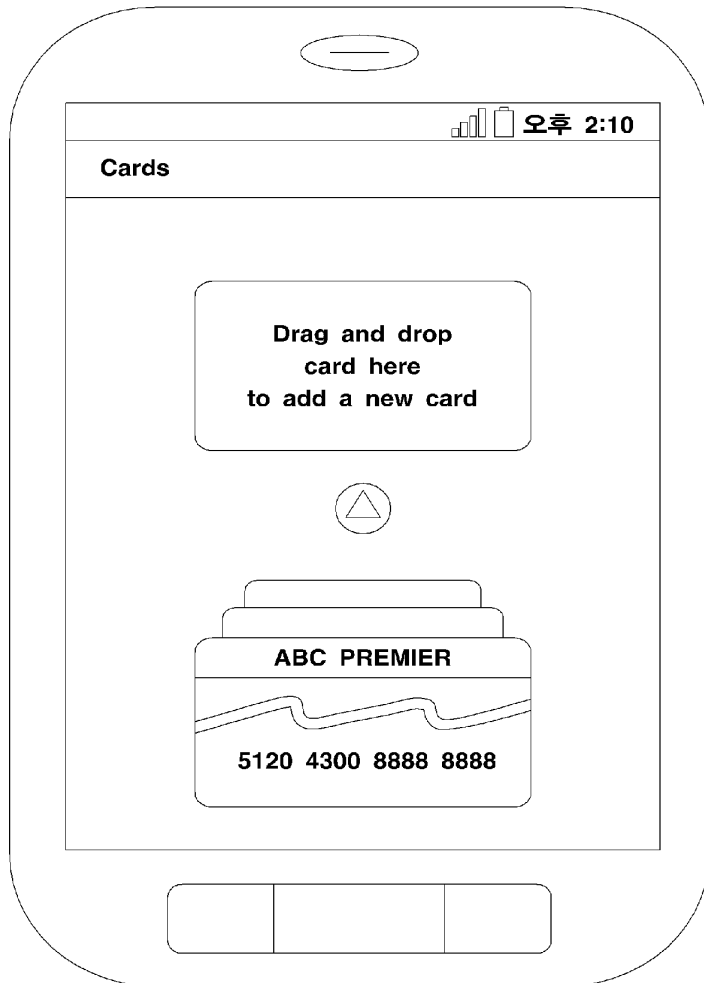
- [청구항 1] 모바일 결제카드들의 리스트를 표시하는 단계;
상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하는 단계; 및 결제 가능 시간이 경과 하면, 임시 결제카드 설정을 해제하는 단계;를 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 2] 제 1항에 있어서,
움직여진 모바일 결제카드가 상기 사용자에게 의해 원위치로 이동되면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 3] 제 1항에 있어서,
결제 가능한 잔여 시간을 표시하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 4] 제 1항에 있어서,
상기 결제 가능 시간 내에 결제가 이루어지면, 상기 임시 결제카드 설정을 해제하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 5] 제 1항에 있어서,
상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 원위치로 이동시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 6] 제 1항에 있어서,
상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 원위치에 점진적으로 이동시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 7] 제 1항에 있어서,
상기 결제 가능 시간이 경과 하기 전에, 상기 임시 결제카드로 설정된 모바일 결제카드가 상기 사용자에게 의해 다시 움직여지면, 상기 결제 가능 시간을 연장시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 8] 제 7항에 있어서,
상기 설정단계에서 사용자에게 의한 움직임은,
상기 연장단계에서 사용자에게 의한 움직임과 동일한 방식의 움직임인 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 9] 제 1항에 있어서,
상기 결제 가능 시간이 경과 하기 전에, 상기 모바일 기기가 상기 사용자에게 의해 특정 패턴으로 움직여지면 상기 결제 가능 시간을

- 연장시키는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 10] 제 1항에 있어서,
상기 결제 가능 시간이 경과 하면, 상기 사용자에게 의해 움직여진 모바일 결제카드를 사라지게 하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 11] 제 1항에 있어서,
상기 사용자에게 의해 움직여진 모바일 결제카드를 결제 가능한 잔여 시간에 따라 점진적으로 사라지게 하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 12] 제 1항에 있어서,
상기 결제 가능한 잔여 시간이 임계치 이하이면, 알람을 출력하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 13] 제 1항에 있어서,
상기 모바일 기기에 발급된 부가 서비스들의 리스트를 표시하는 단계; 및
상기 리스트에 나열된 부가 서비스들 중 사용자에게 의해 움직여진 부가 서비스를 사용할 수 있도록 설정하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 14] 제 13항에 있어서,
사용 가능 시간이 경과 하면, 상기 부가 서비스를 사용 불가능하도록 설정하는 단계;를 더 포함하는 것을 특징으로 하는 임시 결제카드 설정 방법.
- [청구항 15] 모바일 결제카드들의 리스트가 표시되는 터치 스크린; 및
상기 터치 스크린에 표시된 상기 리스트에 나열된 모바일 결제카드들 중 사용자에게 의해 움직여진 모바일 결제카드를 임시 결제카드로 설정하고, 결제 가능 시간이 경과 하면 임시 결제카드 설정을 해제하는 프로세서;를 포함하는 것을 특징으로 하는 모바일 기기.

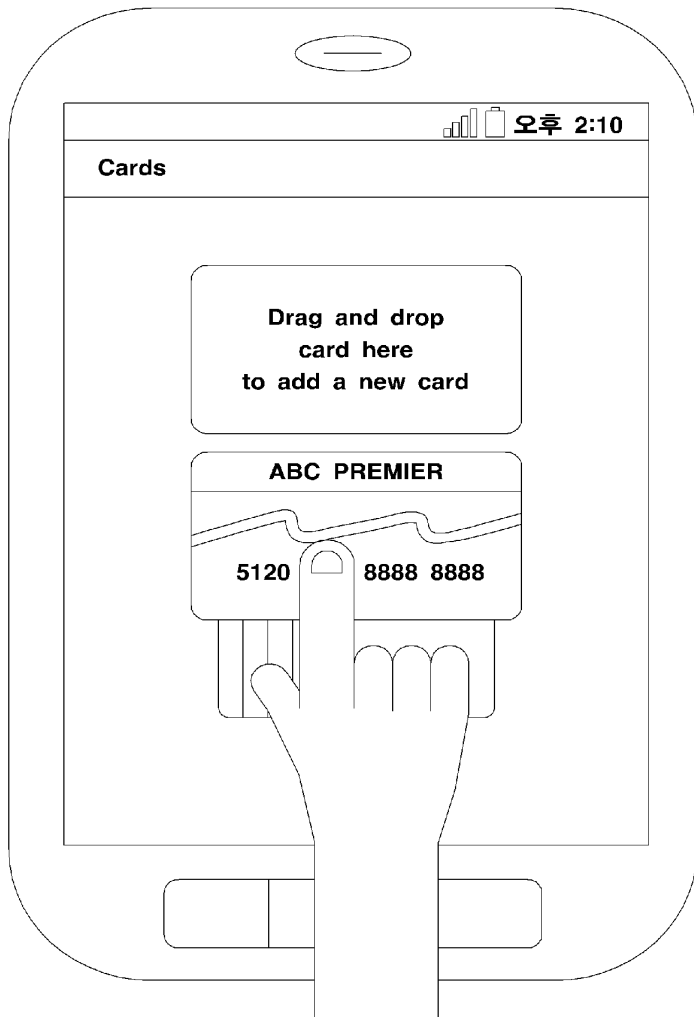
[Fig. 1]



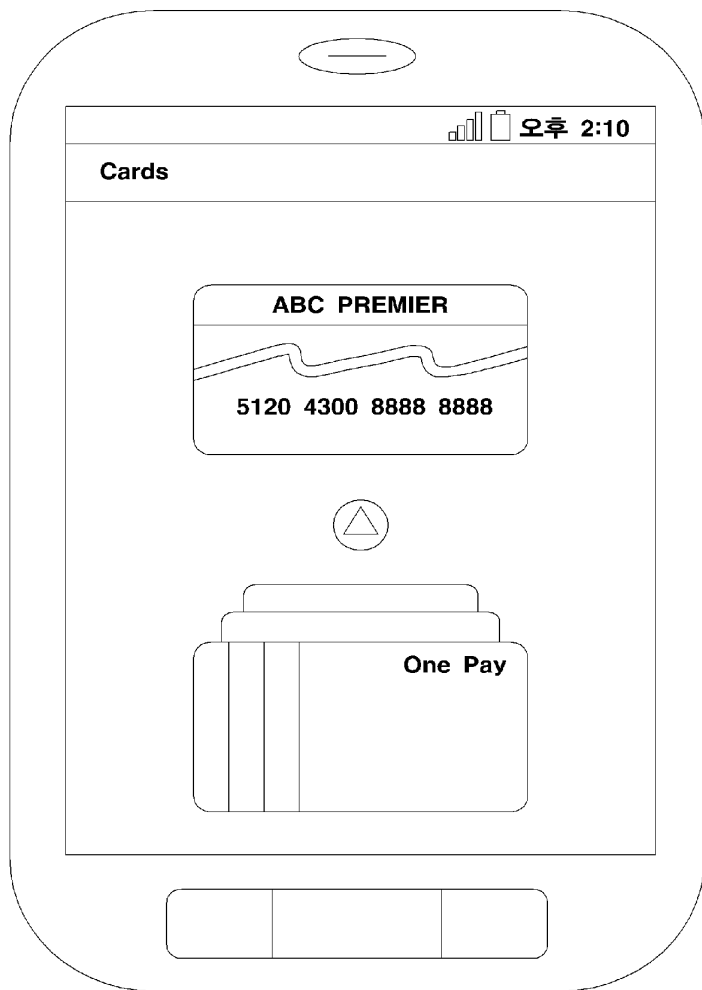
[Fig. 2]



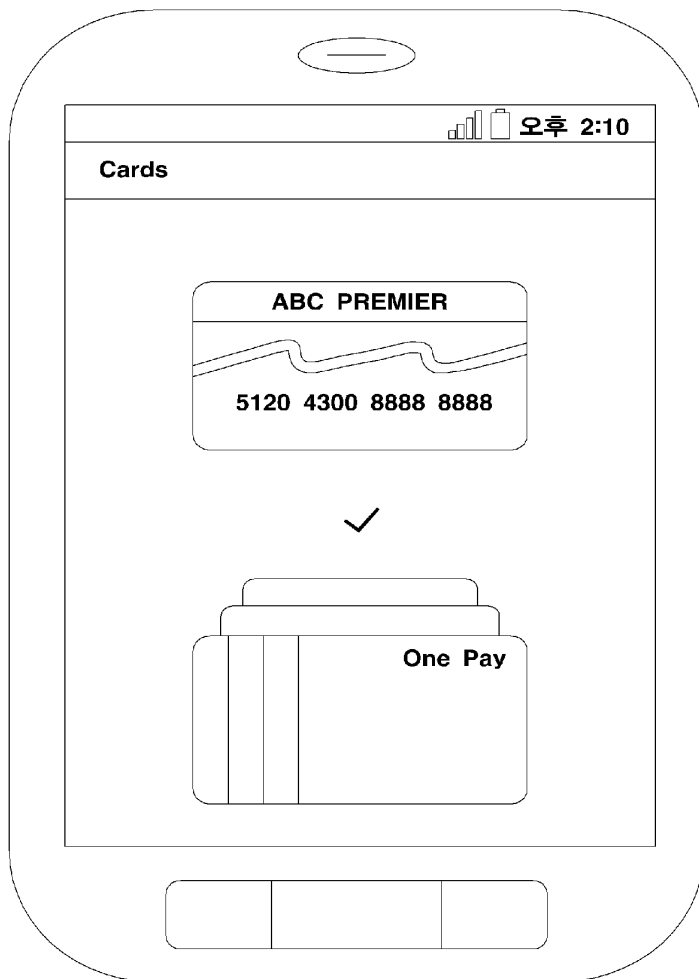
[Fig. 3]



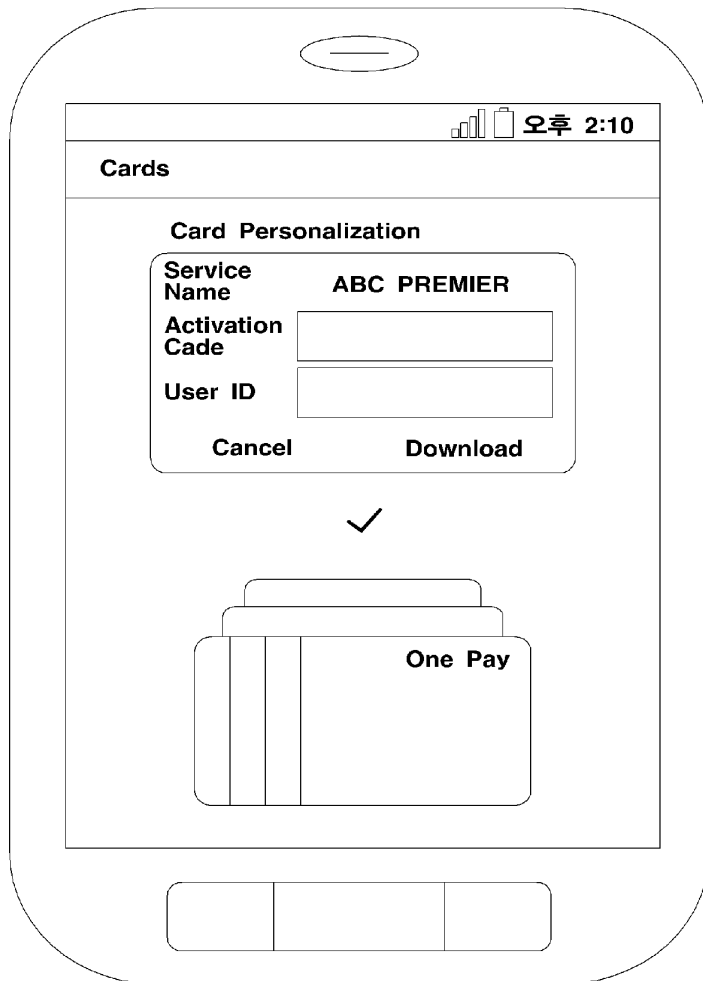
[Fig. 4]



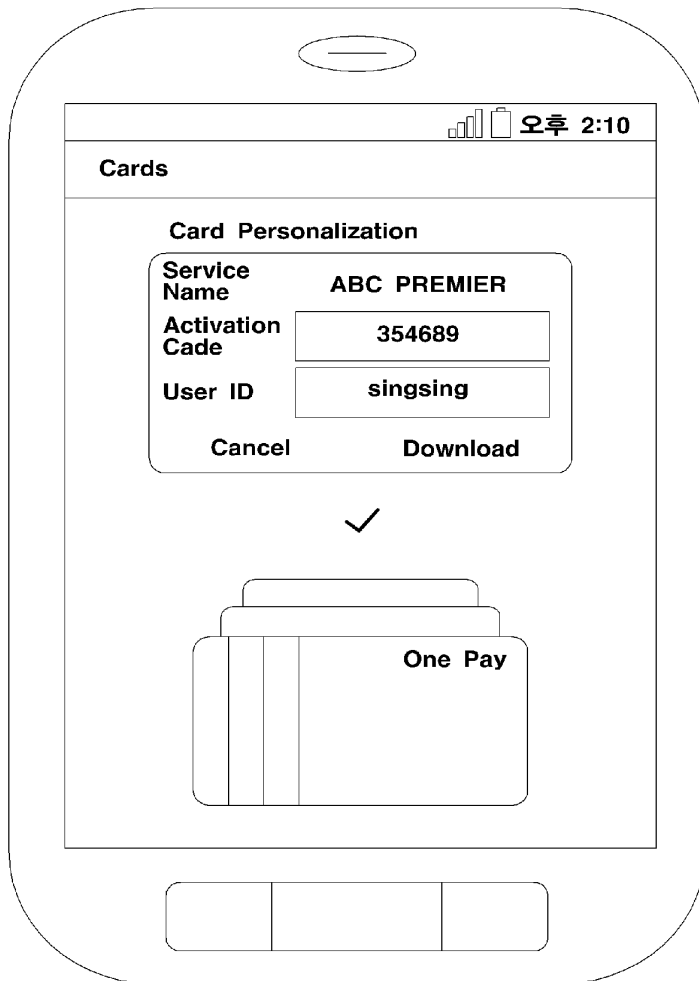
[Fig. 5]



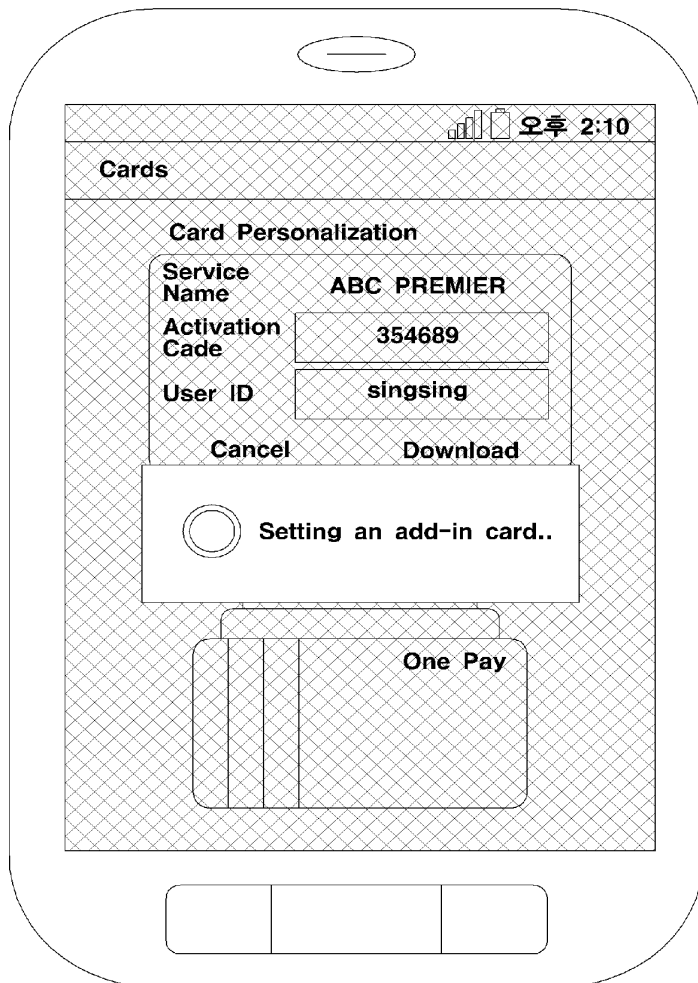
[Fig. 6]



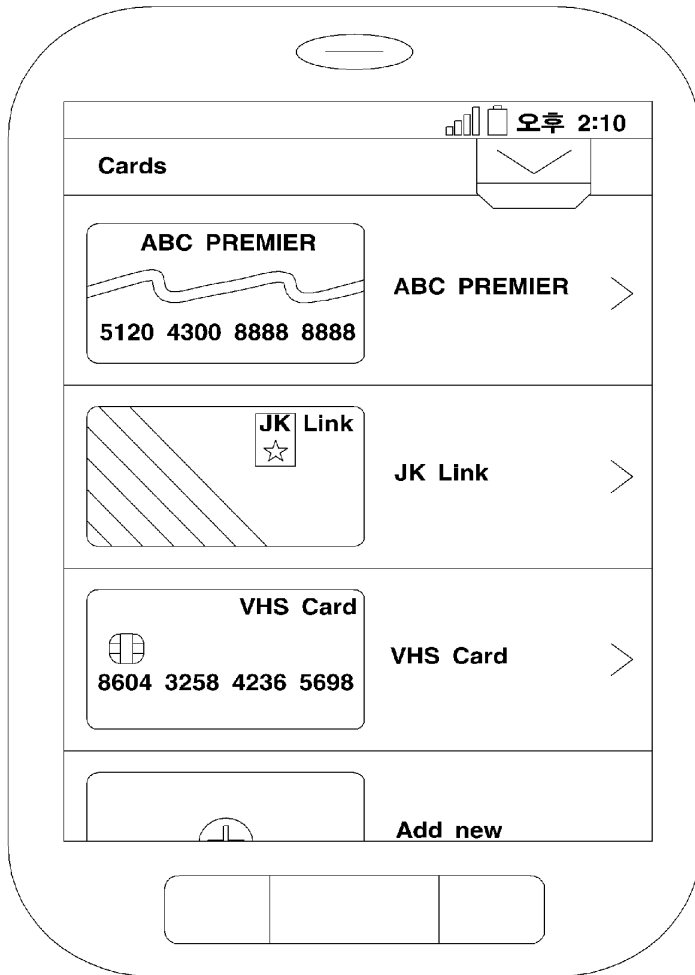
[Fig. 7]



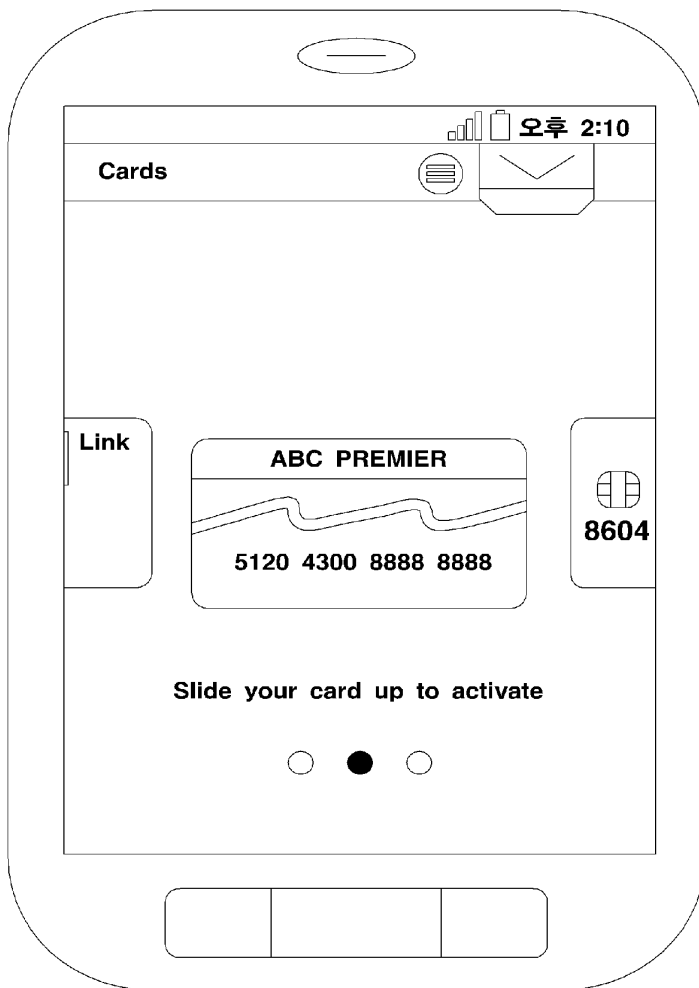
[Fig. 8]



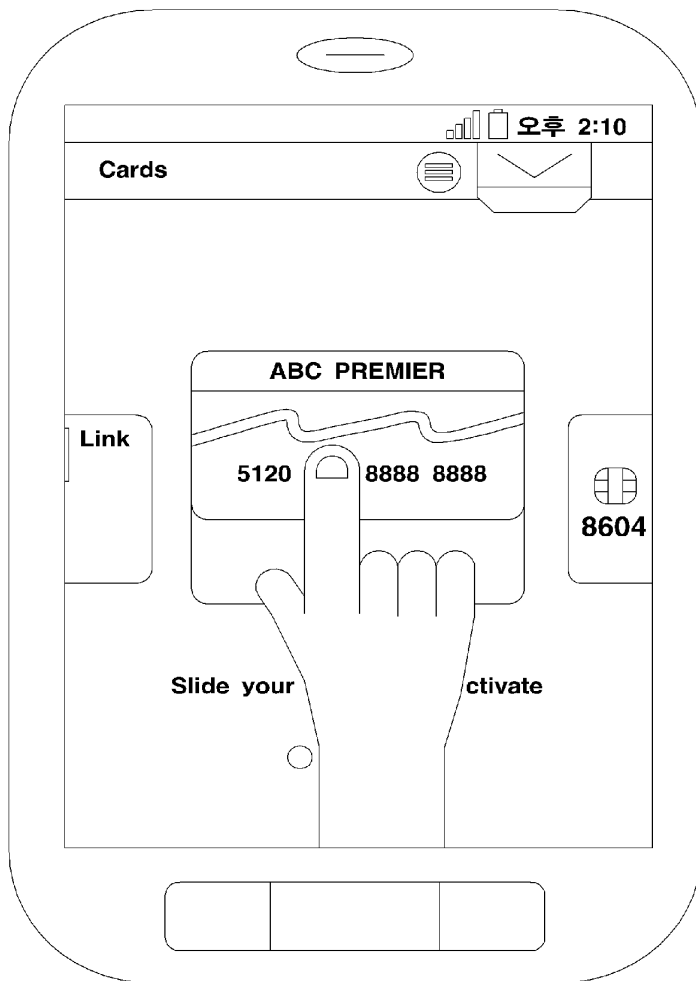
[Fig. 9]



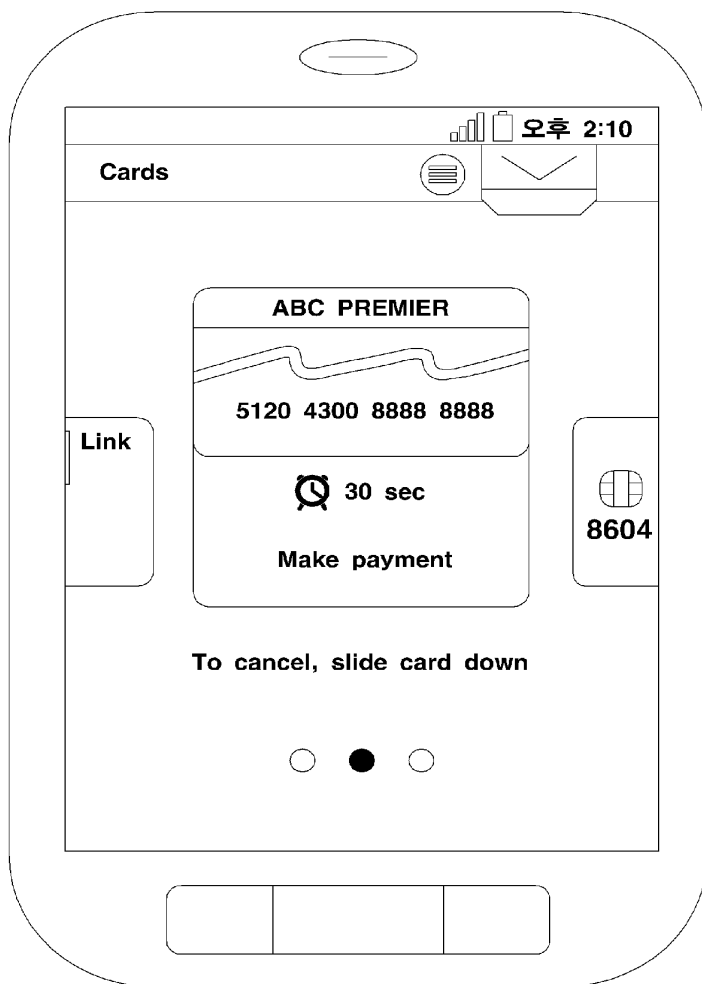
[Fig. 10]



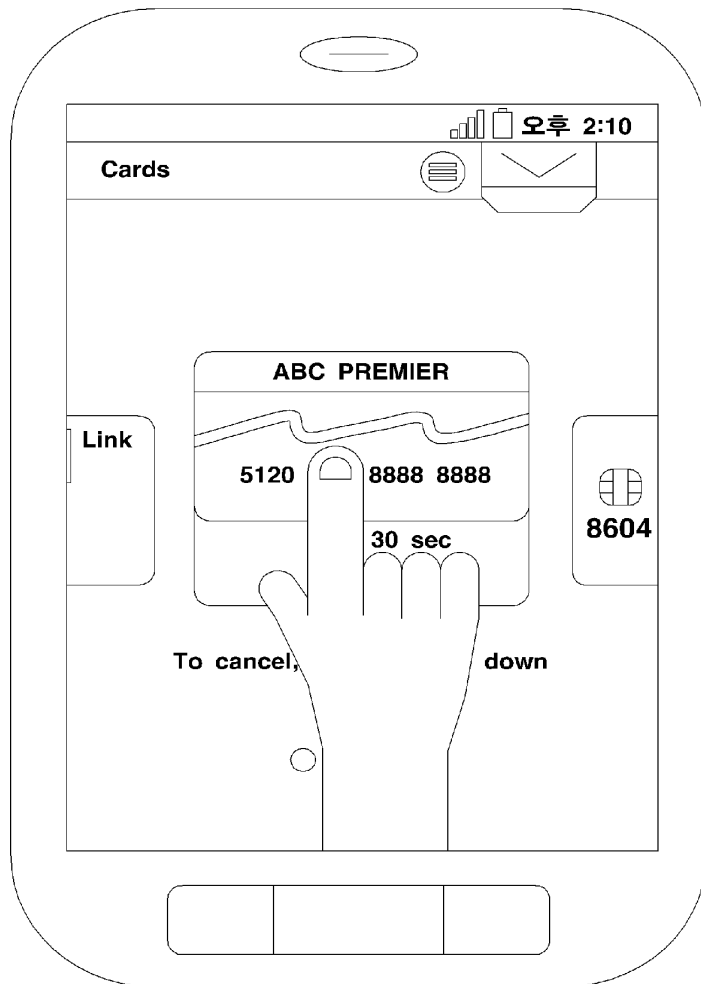
[Fig. 11]



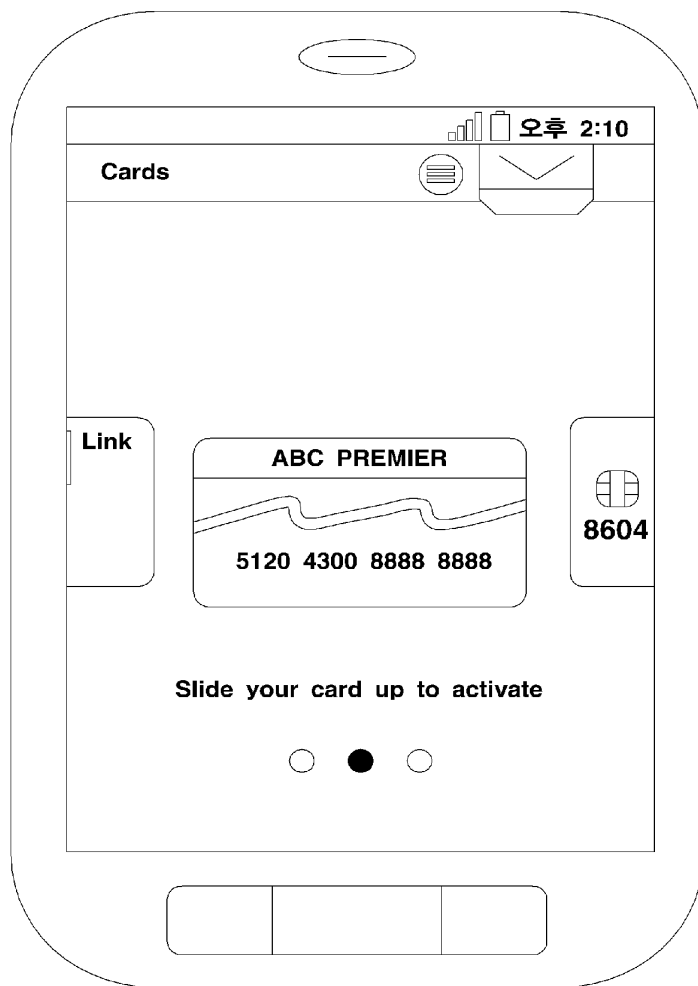
[Fig. 12]



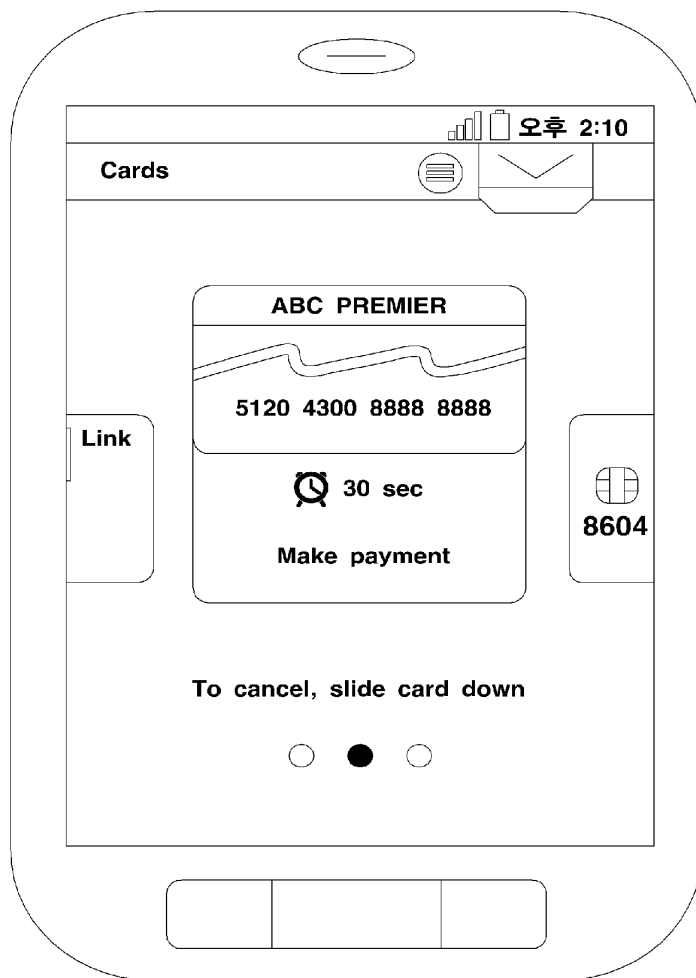
[Fig. 13]



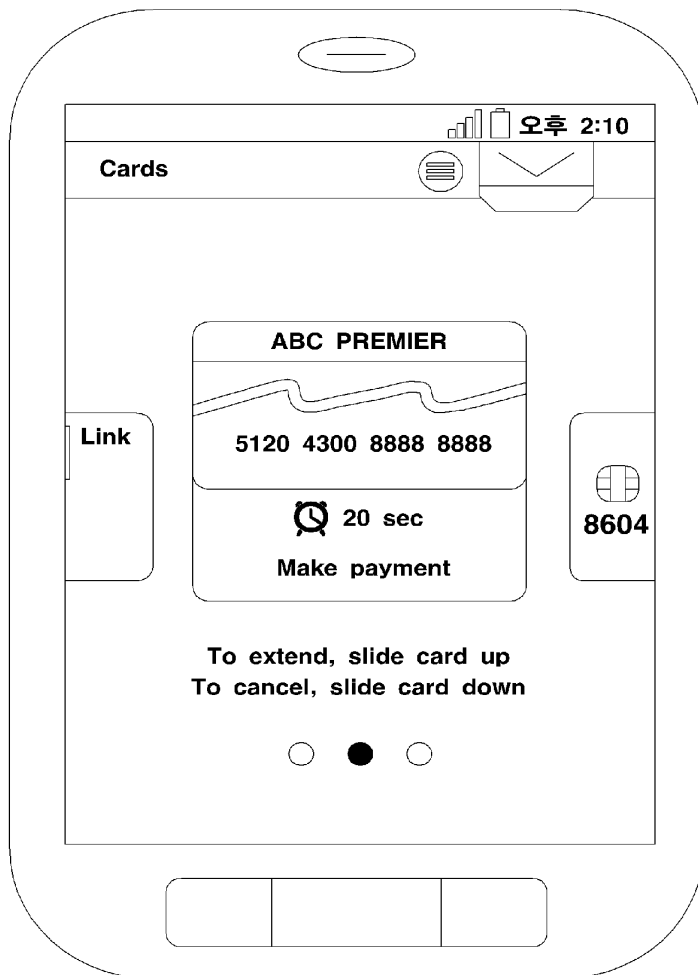
[Fig. 14]



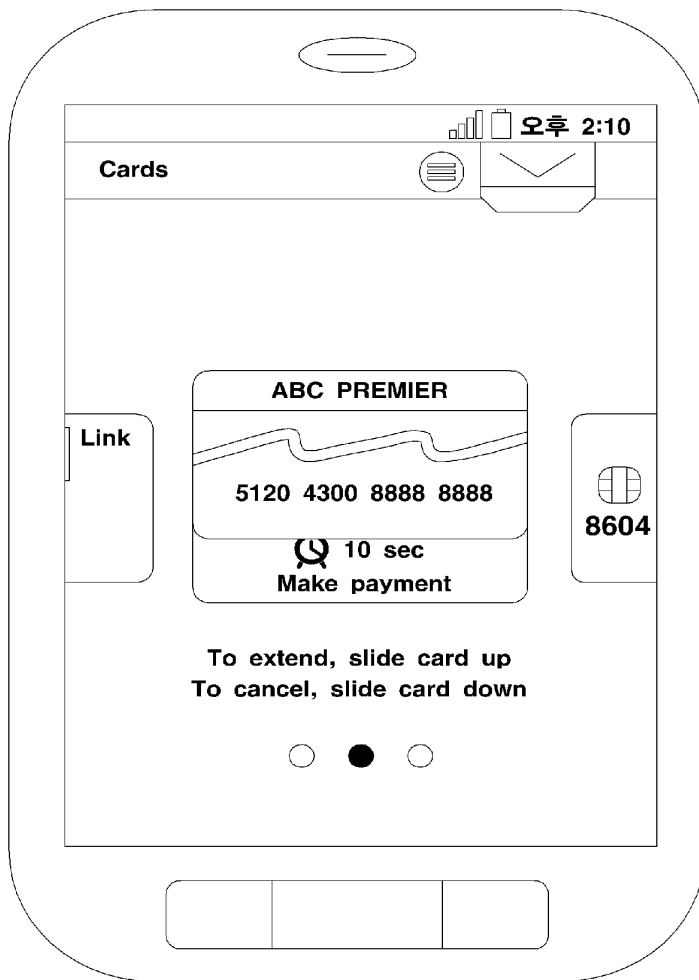
[Fig. 15]



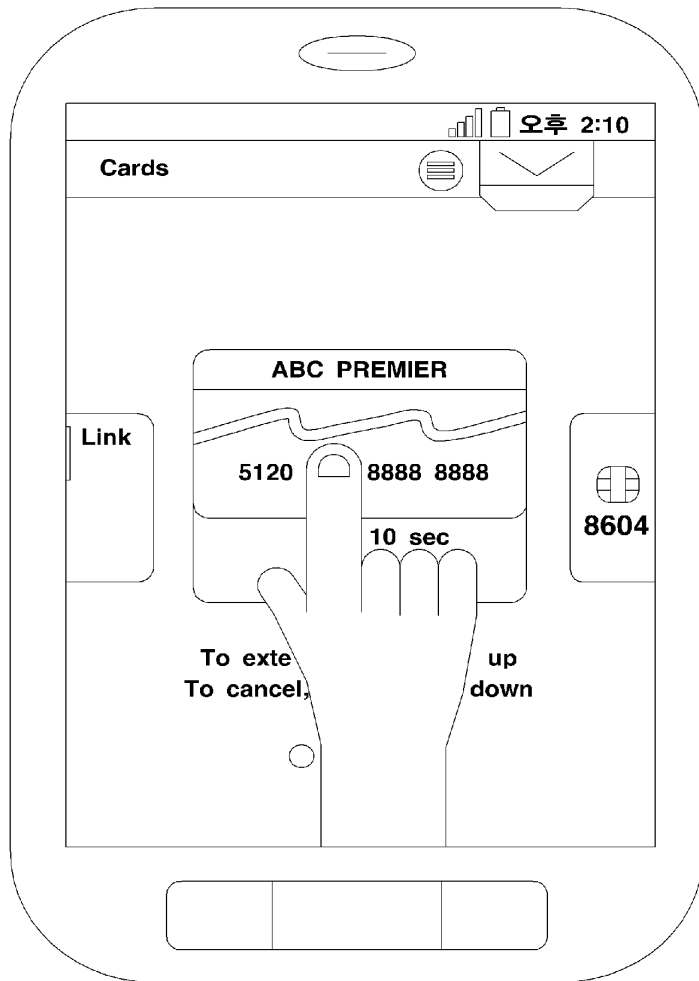
[Fig. 16]



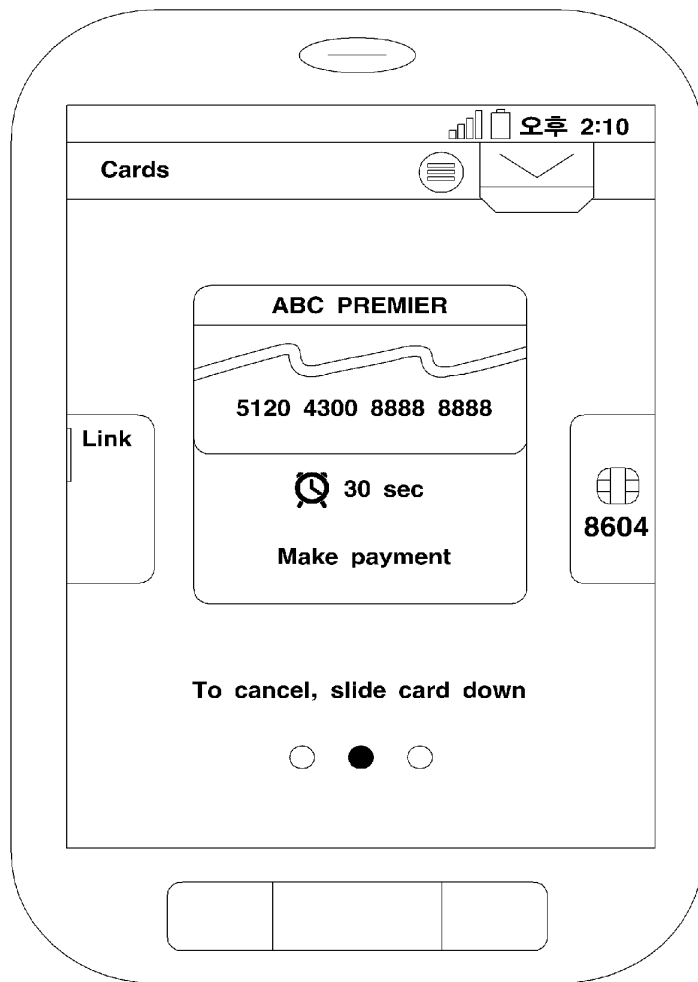
[Fig. 17]



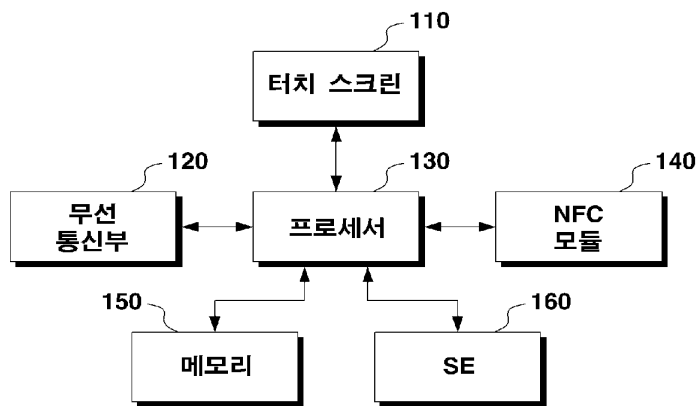
[Fig. 18]



[Fig. 19]



[Fig. 20]



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2013/007775

A. CLASSIFICATION OF SUBJECT MATTER

G06Q 20/32(2012.01)i

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)

G06Q 20/32; G06Q 20/40; H04W 92/08; G06F 15/00; H04W 4/24; H04B 1/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean Utility models and applications for Utility models: IPC as above
 Japanese Utility models and applications for Utility models: IPC as above

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

eKOMPASS (KIPO internal) & Keywords: payment card, temporary, mobile, time, setting, release


C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2011-0096011 A (JUNG, Young Sun) 26 August 2011 See abstract, claims 1-3 and figure 10.	1-15
A	KR 10-2009-0070814 A (KIM, Jong Hae) 01 July 2009 See abstract, claims 1, 5 and figure 1.	1-15
A	KR 10-2007-0021461 A (SAMSUNG ELECTRONICS CO., LTD.) 23 February 2007 See abstract, claims 1-11 and figure 2.	1-15
A	KR 10-2003-0075062 A (HAREXINFOTECH INC.) 22 September 2003 See abstract, claims 1-4 and figure 2.	1-15
A	KR 10-2001-0102052 A (NTT DOCOMO, INC.) 15 November 2001 See abstract, claims 1-4 and figures 17a-18.	1-15

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

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"G" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"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 20 NOVEMBER 2013 (20.11.2013)	Date of mailing of the international search report 21 NOVEMBER 2013 (21.11.2013)
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Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer Telephone No.
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2013/007775

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2013/007775

Patent document cited in search report	Publication date	Patent family member	Publication date
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		US 2004-0087338 A1	06/05/2004
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국제조사보고서

국제출원번호
PCT/KR2013/007775

A. 발명이 속하는 기술분류(국제특허분류(IPC)) G06Q 20/32(2012.01)i	
B. 조사된 분야 조사된 최소문헌(국제특허분류를 기재) G06Q 20/32; G06Q 20/40; H04W 92/08; G06F 15/00; H04W 4/24; H04B 1/40 조사된 기술분야에 속하는 최소문헌 이외의 문헌 한국등록실용신안공보 및 한국공개실용신안공보: 조사된 최소문헌란에 기재된 IPC 일본등록실용신안공보 및 일본공개실용신안공보: 조사된 최소문헌란에 기재된 IPC 국제조사에 이용된 전산 데이터베이스(데이터베이스의 명칭 및 검색어(해당하는 경우)) eKOMPASS(특허청 내부 검색시스템) & 키워드:결제카드, 임시, 모바일, 시간, 설정, 해제	
C. 관련 문헌	
카테고리*	인용문헌명 및 관련 구절(해당하는 경우)의 기재
A	KR 10-2011-0096011 A (정영선) 2011.08.26 요약, 청구항 1-3 및 도면 10 참조.
A	KR 10-2009-0070814 A (김종해) 2009.07.01 요약, 청구항 1, 5 및 도면 1 참조.
A	KR 10-2007-0021461 A (삼성전자주식회사) 2007.02.23 요약, 청구항 1-11 및 도면 2 참조.
A	KR 10-2003-0075062 A (주식회사 하렉스인포텍) 2003.09.22 요약, 청구항 1-4 및 도면 2 참조.
A	KR 10-2001-0102052 A (엔터티 도꼬모 인코퍼레이티드) 2001.11.15 요약, 청구항 1-4 및 도면 17a-18 참조.
	관련 청구항
	1-15
	1-15
	1-15
	1-15
	1-15
<input type="checkbox"/> 추가 문헌이 C(계속)에 기재되어 있습니다. <input checked="" type="checkbox"/> 대응특허에 관한 별지를 참조하십시오.	
* 인용된 문헌의 특별 카테고리: “A” 특별히 관련이 없는 것으로 보이는 일반적인 기술수준을 정의한 문헌 “E” 국제출원일보다 빠른 출원일 또는 우선일을 가지나 국제출원일 이후에 공개된 선출원 또는 특허 문헌 “L” 우선권 주장에 의문을 제기하는 문헌 또는 다른 인용문헌의 공개일 또는 다른 특별한 이유(이유를 명시)를 밝히기 위하여 인용된 문헌 “O” 구두 개시, 사용, 전시 또는 기타 수단을 언급하고 있는 문헌 “P” 우선일 이후에 공개되었으나 국제출원일 이전에 공개된 문헌 “T” 국제출원일 또는 우선일 후에 공개된 문헌으로, 출원과 상충하지 않으며 발명의 기초가 되는 원리나 이론을 이해하기 위해 인용된 문헌 “X” 특별한 관련이 있는 문헌. 해당 문헌 하나만으로 청구된 발명의 신규성 또는 진보성이 없는 것으로 본다. “Y” 특별한 관련이 있는 문헌. 해당 문헌이 하나 이상의 다른 문헌과 조합하는 경우로 그 조합이 당업자에게 자명한 경우 청구된 발명은 진보성이 없는 것으로 본다. “&” 동일한 대응특허문헌에 속하는 문헌	
국제조사의 실제 완료일 2013년 11월 20일 (20.11.2013)	국제조사보고서 발송일 2013년 11월 21일 (21.11.2013)
ISA/KR의 명칭 및 우편주소 대한민국 특허청 (302-701) 대전광역시 서구 청사로 189, 4동 (둔산동, 정부대전청사) 팩스 번호 +82-42-472-7140	심사관 오응기 전화번호 +82-42-481-8744

서식 PCT/ISA/210 (두 번째 용지) (2009년 7월)

국제조사보고서에서 인용된 특허문헌	공개일	대응특허문헌	공개일
KR 10-2011-0096011 A	2011/08/26	KR 10-2011-0084865 A	2011/07/26
KR 10-2009-0070814 A	2009/07/01	없음	
KR 10-2007-0021461 A	2007/02/23	없음	
KR 10-2003-0075062 A	2003/09/22	없음	
KR 10-2001-0102052 A	2001/11/15	AU 2001-17327 A1	2001/06/18
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		AU 2001-17329 A1	2001/06/18
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		AU 2001-17330 A1	2001/06/18
		AU 2001-17330 B2	2005/05/19
		AU 2001-17330 C	2010/08/26
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		CA 2356357 C	2008/03/25
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		CA 2356371 C	2007/09/25
		CA 2549387 A1	2001/06/14
		CA 2549387 C	2012/01/24
		CN 101098361 A	2008/01/02
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		JP 2001-167187 A	2001/06/22
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		US 2002-0138422 A1	2002/09/26

국제조사보고서에서 인용된 특허문헌	공개일	대응특허문헌	공개일
		US 2003-0045328 A1	2003/03/06
		US 2004-0087338 A1	2004/05/06
		US 2005-0148367 A1	2005/07/07
		US 6910624 B1	2005/06/28
		US 7231202 B2	2007/06/12
		US 7604163 B2	2009/10/20
		WO 01-43004 A1	2001/06/14
		WO 01-43412 A1	2001/06/14

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3371414

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MIN HWAN JEON	05/27/2015
RECEIVING PARTY DATA	
Name:	MOZIDO CORFIRE - KOREA, LTD.
Street Address:	(JEONGJA-DONG) 9, SEONGNAM-DAERO 343BEON-GIL
Internal Address:	BUNDANG-GU
City:	SEONGNAM-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	463-847
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14647859
CORRESPONDENCE DATA	
Fax Number:	(202)293-7860
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	2022937060
Email:	rknight@sughrue.com, sughrue@sughrue.com
Correspondent Name:	SUGHRUE MION, PLLC
Address Line 1:	2100 PENNSYLVANIA AVENUE NW
Address Line 2:	SUITE 800
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	Q220066
NAME OF SUBMITTER:	CHRISTOPHER KNIGHT
SIGNATURE:	/Christopher Knight/
DATE SIGNED:	05/28/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 3	
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source=Q220066CombinedDecandAssignmentExecuted#page2.tif	
source=Q220066CombinedDecandAssignmentExecuted#page3.tif	

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

특허 출원 관련 양도 및 선언 (연방규칙집 제37조 1.63항)

Korean Language Assignment with Declaration

이하 양도인으로 지칭되는 하기 서명 발명자인 본인(들)은 아래에 명시된 출원에서 서술한 특정 개선을 발명하였으므로 그리고

에 소재한 (양수인)은(은) 출원 및 발명의 그리고 이에 따라 획득될 일체의 미국 특허에 대한 모든 권리, 소유권 및 이익을 획득하기를 원하므로,

이제 대가를 위한 그 수평을 인정합니다.

상기 양도인인 본인(들)은 상기 명칭의 양수인, 그 승계자 및 그 양수인에게 모든 본항과 그 연속을 포함하여 미국 용어로 공개된 출원과 발명 그리고 그에 대해 승인될 수 있는 미국의 모든 특허증서와 미합중국 코드 제 35장 제119항에 의거한 우선권 청구권을 포함한 모든 그 개발행에 대한 전체 권리, 소유권 및 이익을 판매, 양도 및 이전하며 그리고 본인(들)은 출원서에 제시된 발명에 대해 승인된 일체의 특허증서를 양수인, 그 승계자 또는 그 양수인에게 발급하도록 미국 특허청장에게 요청하는 바이며 또한 본인(들)은 양수인의 요청할 경우 미국 출원과 관련하여 양수인이 필요하다고 생각하는 모든 서류를 더 이상의 보수 없이 서명하여 제공할 것입니다.

(공인은 기록을 위해 요구되지는 않지만 미합중국 코드 제 35장 제261항에 의거 서명날인에 대한 일종의 증거입니다)

본인은 아래 서명의 발명자로서 다음과 같이 선언합니다.

본 양도 및 선언서는 다음 사항을 위한 것입니다.

- 전부 출원 또는
- 미합중국 출원 또는 PCT 국제출원 번호: _____
출원일: _____

본 출원의 제목은 다음과 같습니다.

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, MOZIDO CORFIRE - KOREA, LTD. of (Jeongja-dong) 9, Seongnam-daem 343beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 463-847, Republic of Korea, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below named inventor, I hereby declare that:

This assignment with declaration is directed to:

- The attached application, or
- United States Application or PCT International Application Number PCT/ILR2013/007775 filed on August 29, 2013.

The application is entitled:

METHOD FOR SETTING TEMPORARY PAYMENT CARD AND MOBILE DEVICE APPLYING THE SAME

Korean Language Assignment with Declaration

위에 표시된 출원은 본인이 신청하였거나 또는 신청하도록 허가를 받았습니니다.

The above identified application was made or was authorized to be made by me.

본인은, 본인이 본 출원에서 청구된 발명의 원 발명자 또는 원 공동 발명자라고 믿습니다.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

본인은 본 양도 및 선언서 제출과 관련된 출원의 내용을 검토하였으며 아울러 이해합니다.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

본인은 연방 규정 코드 제 37 장 제 1.56 항에 규정된 바에 따라, 특허성의 판단에 중요한 본인이 아닌 모든 정보를 특허청에 공개할 의무가 있음을 알고 있습니다.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

본 양도 및 선언서 내에 의도적 허위 진술이 있을 경우 미합중국 코드 제 18 장의 1001 항에 의거 벌금이나 5년 이하의 징역 또는 두 가지 처벌을 모두 받을 수 있음을 인정합니다.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

해당 관청의 특허출원 공개 허용 권한

Authorization To Permit Access To Application by Participating Office

이 칸에 표시한 경우, 하기의 서명자는 상기 언급된 출원에 대해 우선권을 주장하는 외국 특허청구 사항이 출원되어 있는 유럽특허청(EPO), 일본특허청(JPO), 한국특허청(KIPO), 세계지적재산권기구(WIPO) 및 기타 특허청들에게 상기 언급된 특허 출원 정보를 공개할지 여부를 결정할 권한을 미국특허청(USPTO)에 부여합니다. 연방규정 코드 제 37 장 제 1.14(c)항과 (h)항을 참조하십시오. 만약 상기 출원자가 상기 언급된 출원에 대해 우선권을 주장하는 외국 특허청구 사항이 출원되어 있는 EPO, JPO, KIPO, 또는 기타 특허청들이 본 특허출원 내용을 열람하는 것을 원하지 않는다면 이 칸에 표시하지 않습니다.

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

연방규정 코드 제 37 장 제 1.14(h)(3)항에 따라, 다음의 경우에 원해 출원된 내용의 사본을 열람할 수 있습니다: 1) 상기 언급된 특허 출원, 2) 미합중국 코드 제 35 장 119(a)-(d)항에 따라 상기 언급된 특허출원이 우선권을 주장하는 대상인 기타 외국 특허출원으로, 그 외국 특허출원 사본이 연방규정 코드 제 37 장 제 1.55 항의 사본 증명 요건에 부합되며, 상기 언급된 특허출원에 이미 출원되어 있는 경우, 3) 상기 언급된 특허출원이 부수적인 이익을 주장하고자 하는 대상인 기타 미국 특허출원.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

연방규정 코드 제 37 장 제 1.14(c) 항에 따라, "해당관청의 특허출원 공개 허용 권한" 서류 제출 일자에 관한 정보를 입수할 수 있습니다.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR §1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

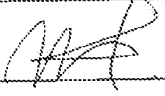


Date

8/30/2012

NAME OF SOLE OR FIRST INVENTOR:

단독 혹은 최초 발명자의 성명

Given Name (first and middle [if any]) 이름 (성씨는 제외)	Min Hwan	Family Name or Surname 성(姓)	JENN
Investor's signature 발명자의 서명		Date 일자	May 29th, 2015
Residence: 거주지:	Gwangju-si, Republic of Korea		
Mailing Address: 우편 주소:	675-6, Sinhyeon-ri, Opu-eup, Gwangju-si, Gyeonggi-do 464-925, Republic of Korea		