

|                                                                                                                                                         |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>TO:</b><br><b>Mail Stop 8</b><br><b>Director of the U.S. Patent and Trademark Office</b><br><b>P.O. Box 1450</b><br><b>Alexandria, VA 22313-1450</b> | <b>REPORT ON THE</b><br><b>FILING OR DETERMINATION OF AN</b><br><b>ACTION REGARDING A PATENT OR</b><br><b>TRADEMARK</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.):

|                             |                                |                                                                                  |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------|
| DOCKET NO.<br>2:22-cv-00141 | DATE FILED<br>5/11/2022        | U.S. DISTRICT COURT<br>Eastern District of Texas, Marshall Division              |
| PLAINTIFF<br>CardWare Inc.  |                                | DEFENDANT<br>Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. |
| PATENT OR<br>TRADEMARK NO.  | DATE OF PATENT<br>OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK                                                    |
| 1 10,339,520                | 7/2/2019                       | CardWare Inc.                                                                    |
| 2 10,628,820                | 4/21/2020                      | CardWare Inc.                                                                    |
| 3 10,810,579                | 10/20/2020                     | CardWare Inc.                                                                    |
| 4 11,176,538                | 11/16/2021                     | CardWare Inc.                                                                    |
| 5 11,328,286                | 4/20/2022                      | CardWare Inc.                                                                    |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| DATE INCLUDED              | INCLUDED BY                                                                                                                                    |                               |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                            | <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading |                               |
| PATENT OR<br>TRADEMARK NO. | DATE OF PATENT<br>OR TRADEMARK                                                                                                                 | HOLDER OF PATENT OR TRADEMARK |
| 1                          |                                                                                                                                                |                               |
| 2                          |                                                                                                                                                |                               |
| 3                          |                                                                                                                                                |                               |
| 4                          |                                                                                                                                                |                               |
| 5                          |                                                                                                                                                |                               |

In the above—entitled case, the following decision has been rendered or judgement issued:

|                    |                   |      |
|--------------------|-------------------|------|
| DECISION/JUDGEMENT |                   |      |
| CLERK              | (BY) DEPUTY CLERK | DATE |

Copy 1—Upon initiation of action, mail this copy to Director    Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director    Copy 4—Case file copy



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 |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/459,150         | 07/01/2019            | David WYATT           |                        |

**CONFIRMATION NO. 1554**

**POA ACCEPTANCE LETTER**

136197

David Wyatt c/o Murabito, Hao & Barnes

111 North Market Street

Suite 700

San Jose, CA 95113



\*OC000000133163896\*

Date Mailed: 04/14/2022

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 04/08/2022.

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.

/sharris/



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|--------------------|-----------------------|-----------------------|------------------------|
| 16/459,150         | 07/01/2019            | David WYATT           | WYAT-0002.USD1C1C1C    |

**CONFIRMATION NO. 1554**

**POWER OF ATTORNEY NOTICE**

136197

David Wyatt c/o Murabito, Hao & Barnes

111 North Market Street

Suite 700

San Jose, CA 95113



\*OC000000133163885\*

Date Mailed: 04/14/2022

**NOTICE REGARDING CHANGE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 04/08/2022.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. 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.

/sharris/

**TERMINAL DISCLAIMER IN A PATENT OR PROCEEDING  
IN VIEW OF ANOTHER PATENT**

Docket Number (Optional)

WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

Patent No.: 10810579

The patentee, CARDWARE, INC, owner of 100 percent interest in the instant patent hereby disclaims, except as provided below, the terminal part of the statutory term of the instant patent which would extend beyond the expiration date of the full statutory term of patent No. 9022286 (the "reference patent"), as the term of said reference patent is presently shortened by any terminal disclaimer. The patentee hereby agrees that the instant patent shall be enforceable only for and during such period that the instant patent and the reference patent are commonly owned. This agreement runs with the instant patent and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the patentee does not disclaim the terminal part of the instant patent that would extend to the expiration date of the full statutory term of the reference patent, "as the term of said reference patent is presently shortened by any terminal disclaimer," in the event that said reference patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is reissued; or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer.

I. Check either box 1, 2, or 3 below, as appropriate, if there is an assignment:

1. ☐ The current ownership was established by the filing of a statement under 37 CFR 3.73 during prosecution of the application that issued as the instant patent.
2. ☐ The instant patent was issued from an application filed on or after September 16, 2012, and the current patent owner was the applicant under 37 CFR 1.46.
3. ☒ A statement under 37 CFR 3.73 is attached herewith. Form PTO/SB/96 or PTO/AIA/96, as appropriate, may be used.

II. Authorization for Terminal Disclaimer - Check either box 1 or 2 below, if appropriate:

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.
2. ☒ The undersigned is an attorney or agent of record. Reg. No. 43628

/Jose S. Garcia/

Signature

4-14-2022

Date

Jose S. Garcia

Typed or printed name

408-938-9060

Telephone number

- ☒ The terminal disclaimer fee under 37 CFR 1.20(d) is included.

NOTE: Submit multiple forms if more than one signature is required, see below.\*

**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.**



\*Total of        forms are submitted.

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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.

**TERMINAL DISCLAIMER IN A PATENT OR PROCEEDING  
IN VIEW OF ANOTHER PATENT**

Docket Number (Optional)

WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

Patent No.: 10810579

The patentee, CARDWARE, INC, owner of 100 percent interest in the instant patent hereby disclaims, except as provided below, the terminal part of the statutory term of the instant patent which would extend beyond the expiration date of the full statutory term of patent No. 9224083 (the "reference patent"), as the term of said reference patent is presently shortened by any terminal disclaimer. The patentee hereby agrees that the instant patent shall be enforceable only for and during such period that the instant patent and the reference patent are commonly owned. This agreement runs with the instant patent and is binding upon the grantee, its successors or assigns.

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2. ☒ The undersigned is an attorney or agent of record. Reg. No. 43628

/Jose S. Garcia/

Signature

4-14-2022

Date

Jose S. Garcia

Typed or printed name

408-938-9060

Telephone number

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IN VIEW OF ANOTHER PATENT**

Docket Number (Optional)

WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

Patent No.: 10810579

The patentee, CARDWARE, INC, owner of 100 percent interest in the instant patent hereby disclaims, except as provided below, the terminal part of the statutory term of the instant patent which would extend beyond the expiration date of the full statutory term of patent No. 9430765 (the "reference patent"), as the term of said reference patent is presently shortened by any terminal disclaimer. The patentee hereby agrees that the instant patent shall be enforceable only for and during such period that the instant patent and the reference patent are commonly owned. This agreement runs with the instant patent and is binding upon the grantee, its successors or assigns.

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/Jose S. Garcia/

4-14-2022

Signature

Date

Jose S. Garcia

408-938-9060

Typed or printed name

Telephone number

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First Named Inventor: DAVID WYATT

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Patent No.: 10810579

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2. ☒ The undersigned is an attorney or agent of record. Reg. No. 43628

/Jose S. Garcia/

Signature

4-14-2022

Date

Jose S. Garcia

Typed or printed name

408-938-9060

Telephone number

- ☒ The terminal disclaimer fee under 37 CFR 1.20(d) is included.

NOTE: Submit multiple forms if more than one signature is required, see below.\*

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**TERMINAL DISCLAIMER IN A PATENT OR PROCEEDING  
IN VIEW OF ANOTHER PATENT**

Docket Number (Optional)

WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

Patent No.: 10810579

The patentee, CARDWARE, INC, owner of 100 percent interest in the instant patent hereby disclaims, except as provided below, the terminal part of the statutory term of the instant patent which would extend beyond the expiration date of the full statutory term of patent No. 10013693 (the "reference patent"), as the term of said reference patent is presently shortened by any terminal disclaimer. The patentee hereby agrees that the instant patent shall be enforceable only for and during such period that the instant patent and the reference patent are commonly owned. This agreement runs with the instant patent and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the patentee does not disclaim the terminal part of the instant patent that would extend to the expiration date of the full statutory term of the reference patent, "as the term of said reference patent is presently shortened by any terminal disclaimer," in the event that said reference patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is reissued; or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer.

I. Check either box 1, 2, or 3 below, as appropriate, if there is an assignment:

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IN VIEW OF ANOTHER PATENT**

Docket Number (Optional)

WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

Patent No.: 10810579

The patentee, CARDWARE, INC, owner of 100 percent interest in the instant patent hereby disclaims, except as provided below, the terminal part of the statutory term of the instant patent which would extend beyond the expiration date of the full statutory term of patent No. 10339520 (the "reference patent"), as the term of said reference patent is presently shortened by any terminal disclaimer. The patentee hereby agrees that the instant patent shall be enforceable only for and during such period that the instant patent and the reference patent are commonly owned. This agreement runs with the instant patent and is binding upon the grantee, its successors or assigns.

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/Jose S. Garcia/

Signature

4-14-2022

Date

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Typed or printed name

408-938-9060

Telephone number

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WYAT-0002USD1C1C1C1

Application/Control Number: 16/459,150

Filing Date: 07-01-2019

First Named Inventor: DAVID WYATT

Title: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

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**STATEMENT UNDER 37 CFR 3.73(c)**

Applicant/Patent Owner: CARDWARE, INC  
Application No./Patent No.: 10,810,579 Filed/Issue Date: 10/20/2020  
Titled: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD  
CARDWARE, INC, a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is \_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: DAVID WYATT To: CARDWARE, INC

The document was recorded in the United States Patent and Trademark Office at  
Reel 058891, Frame 0826, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). 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 12 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.*

**STATEMENT UNDER 37 CFR 3.73(c)**

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

4. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

5. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
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6. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jose S. Garcia/

4-14-2022

Signature

Date

Jose S. Garcia

43628

Printed or Typed Name

Title or Registration Number

## 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.

| Electronic Patent Application Fee Transmittal      |                 |                                                                                                |               |                             |
|----------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|---------------|-----------------------------|
| <b>Application Number:</b>                         |                 | 16459150                                                                                       |               |                             |
| <b>Filing Date:</b>                                |                 | 01-Jul-2019                                                                                    |               |                             |
| <b>Title of Invention:</b>                         |                 | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        |                 | David WYATT                                                                                    |               |                             |
| <b>Filer:</b>                                      |                 | Jose S. Garcia                                                                                 |               |                             |
| <b>Attorney Docket Number:</b>                     |                 |                                                                                                |               |                             |
| Filed as Small Entity                              |                 |                                                                                                |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                 |                                                                                                |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b> | <b>Quantity</b>                                                                                | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                 |                                                                                                |               |                             |
| <b>Pages:</b>                                      |                 |                                                                                                |               |                             |
| <b>Claims:</b>                                     |                 |                                                                                                |               |                             |
| <b>Miscellaneous-Filing:</b>                       |                 |                                                                                                |               |                             |
| <b>Petition:</b>                                   |                 |                                                                                                |               |                             |
| <b>Patent-Appeals-and-Interference:</b>            |                 |                                                                                                |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>           |                 |                                                                                                |               |                             |
| <b>Extension-of-Time:</b>                          |                 |                                                                                                |               |                             |

| Description                      | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|----------------------------------|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>            |          |          |        |                      |
| STATUTORY OR TERMINAL DISCLAIMER | 2814     | 7        | 170    | 1190                 |
| <b>Total in USD (\$)</b>         |          |          |        | <b>1190</b>          |

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 45479747                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Jose S. Garcia                                                                                 |
| <b>Filer Authorized By:</b>                 |                                                                                                |
| <b>Attorney Docket Number:</b>              |                                                                                                |
| <b>Receipt Date:</b>                        | 14-APR-2022                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 17:54:23                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

|                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------------|------------------|
| Submitted with Payment                                                                                         | yes              |
| Payment Type                                                                                                   | DA               |
| Payment was successfully received in RAM                                                                       | \$1190           |
| RAM confirmation Number                                                                                        | E20224DH54520434 |
| 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               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_1_of_7.pdf | 305977                                   | no               | 2                |
|                 |                           |                                           | 662bfc3ba031ccd94acc9b7028504b9dd3d85e77 |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |
| 2               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_2_of_7.pdf | 227524                                   | no               | 2                |
|                 |                           |                                           | 3cb99c283986953896548401f65655349f9d0d9f |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |
| 3               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_3_of_7.pdf | 227533                                   | no               | 2                |
|                 |                           |                                           | 9f1748c9f8121797ffc96770314a289616a1dad5 |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |
| 4               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_4_of_7.pdf | 227549                                   | no               | 2                |
|                 |                           |                                           | 5b100ff62702004a3337458cd7474aa8d10e3a7  |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |
| 5               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_5_of_7.pdf | 227564                                   | no               | 2                |
|                 |                           |                                           | 737b8ea4228e998cab0d538a316a523e0840b14f |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |
| 6               | Terminal Disclaimer Filed | WYAT-0002USD1C1C1C1_sb0026a_TD_6_of_7.pdf | 227549                                   | no               | 2                |
|                 |                           |                                           | 18644d2847f88ef814c63dec5dbd6a3f98bbe287 |                  |                  |
| Warnings:       |                           |                                           |                                          |                  |                  |
| Information:    |                           |                                           |                                          |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                       |                                          |    |   |  |  |  |  |
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| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Terminal Disclaimer Filed                     | WYAT-0002USD1C1C1C1_sb0026a_TD_7_of_7.pdf             | 227562                                   | no | 2 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                       | ec6c47e6ca166d95299db8fc3e22a17cd0cbadc  |    |   |  |  |  |  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                       |                                          |    |   |  |  |  |  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                       |                                          |    |   |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Assignee showing of ownership per 37 CFR 3.73 | WYAT-0002USD1C1C1C1_aia0096_Statement_under_3_73c.pdf | 221376                                   | no | 3 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                       | 55538a744b10b8a4c05ebc37ea7ee2340d7dcef9 |    |   |  |  |  |  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                       |                                          |    |   |  |  |  |  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                       |                                          |    |   |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fee Worksheet (SB06)                          | fee-info.pdf                                          | 38003                                    | no | 2 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                       | 74a9b6830bd764a48194edecf4300ff2d89fafbb |    |   |  |  |  |  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                       |                                          |    |   |  |  |  |  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                       |                                          |    |   |  |  |  |  |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                       | 1930637                                  |    |   |  |  |  |  |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> 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><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> 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><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> 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> |                                               |                                                       |                                          |    |   |  |  |  |  |

**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 136197

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

| Name | Registration Number |
|------|---------------------|
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |

| Name | Registration Number |
|------|---------------------|
|      |                     |
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|      |                     |
|      |                     |
|      |                     |
|      |                     |

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 136197

OR

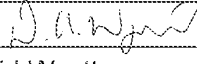
|                                                  |       |     |
|--------------------------------------------------|-------|-----|
| <input type="checkbox"/> Firm or individual name |       |     |
| Address                                          |       |     |
| City                                             | State | Zip |
| Country                                          |       |     |
| Telephone                                        | Email |     |

Assignee name and address: CARDWARE, INC  
2470 CAMROSE AVE.  
SAN JOSE, CALIFORNIA 95130

**A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.**

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

|                                                                                               |                        |
|-----------------------------------------------------------------------------------------------|------------------------|
| Signature  | Date March 29th, 2022  |
| Name David Wyatt                                                                              | Telephone 408-892-4421 |
| Title CEO/CTO/President                                                                       |                        |

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 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

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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.

**STATEMENT UNDER 37 CFR 3.73(c)**

Applicant/Patent Owner: CARDWARE, INC  
Application No./Patent No.: 10,810,579 Filed/Issue Date: 10/20/2020  
Titled: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD  
CARDWARE, INC, a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is \_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: DAVID WYATT To: CARDWARE, INC

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[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). 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 12 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.*

**STATEMENT UNDER 37 CFR 3.73(c)**

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☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jose S. Garcia/

Signature

Jose S. Garcia

Printed or Typed Name

4-8-2022

Date

43628

Title or Registration Number

## 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.
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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.
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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          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 45435741                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Jose S. Garcia                                                                                 |
| <b>Filer Authorized By:</b>                 |                                                                                                |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 08-APR-2022                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 20:35:36                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

| Submitted with Payment | no                   |                                                  |                                                    |                  |                  |
|------------------------|----------------------|--------------------------------------------------|----------------------------------------------------|------------------|------------------|
| <b>File Listing:</b>   |                      |                                                  |                                                    |                  |                  |
| Document Number        | Document Description | File Name                                        | File Size(Bytes)/ Message Digest                   | Multi Part /.zip | Pages (if appl.) |
| 1                      | Power of Attorney    | WYAT-0002USD1C1C1C1_AIA_80_POA_to_MHB_Signed.pdf | 170922<br>5e2119e9f430d371f87d7dc705baf305bcd98a34 | no               | 2                |
| <b>Warnings:</b>       |                      |                                                  |                                                    |                  |                  |

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| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                       |                                                    |    |   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Assignee showing of ownership per 37 CFR 3.73 | WYAT-0002USD1C1C1C1_aia0096_Statement_under_3_73c.pdf | 211709<br>c5e635f01f535c421ce29e852b79459235b4f7ff | no | 3 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                                       |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                       |                                                    |    |   |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                       | 382631                                             |    |   |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>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.</b></p> |                                               |                                                       |                                                    |    |   |

|                                                                                                     |                        |                     |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     | 16459150            |
|                                                                                                     | Filing Date            | 2019-07-01          |
|                                                                                                     | First Named Inventor   | David WYATT         |
|                                                                                                     | Art Unit               | 2887                |
|                                                                                                     | Examiner Name          | LEE, SEUNG H.       |
|                                                                                                     | Attorney Docket Number | WYAT-0002.USD1C1C1C |

| U.S. PATENTS      |         |               |                        |            |                                                 | Remove                                                                   |
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| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|                   | 1       | 5276311       |                        | 1994-01-04 | Hennige                                         |                                                                          |
|                   | 2       | 9406011       |                        | 2016-08-02 | Bartenstein , et al.                            |                                                                          |
|                   | 3       | 9286561       |                        | 2016-03-15 | Olson , et al.                                  |                                                                          |
|                   | 4       | 8870081       |                        | 2014-10-28 | Olson , et al.                                  |                                                                          |
|                   | 5       | 9734345       |                        | 2017-08-15 | Spodak , et al.                                 |                                                                          |
|                   | 6       | 9218557       |                        | 2015-12-22 | Spodak , et al.                                 |                                                                          |
|                   | 7       | 9195926       |                        | 2015-11-24 | Spodak                                          |                                                                          |
|                   | 8       | 9177241       |                        | 2015-11-03 | Spodak , et al.                                 |                                                                          |

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|                                                                                                     | First Named Inventor   | David WYATT         |            |
|                                                                                                     | Art Unit               | 2887                |            |
|                                                                                                     | Examiner Name          | LEE, SEUNG H.       |            |
|                                                                                                     | Attorney Docket Number | WYAT-0002.USD1C1C1C |            |

|    |          |            |                   |
|----|----------|------------|-------------------|
| 9  | 8788418  | 2014-07-22 | Spodak , et al.   |
| 10 | 8671055  | 2014-03-11 | Spodak , et al.   |
| 11 | 9129270  | 2015-09-08 | Spodak            |
| 12 | 10255545 | 2019-04-09 | Mullen , et al.   |
| 13 | 10223631 | 2019-03-05 | Mullen , et al.   |
| 14 | 10032100 | 2018-07-24 | Mullen , et al.   |
| 15 | 9547816  | 2017-01-17 | Mullen , et al.   |
| 16 | 8827153  | 2014-09-09 | Rhoades , et al.  |
| 17 | 8517276  | 2013-08-27 | Mullen , et al.   |
| 18 | 6000832  | 1999-12-14 | Franklin , et al. |
| 19 | 7922082  | 2011-04-12 | Muscato           |

|                                                                                                     |                        |  |                     |  |
|-----------------------------------------------------------------------------------------------------|------------------------|--|---------------------|--|
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|                                                                                                     | Filing Date            |  | 2019-07-01          |  |
|                                                                                                     | First Named Inventor   |  | David WYATT         |  |
|                                                                                                     | Art Unit               |  | 2887                |  |
|                                                                                                     | Examiner Name          |  | LEE, SEUNG H.       |  |
|                                                                                                     | Attorney Docket Number |  | WYAT-0002.USD1C1C1C |  |

|  |    |         |  |            |                  |  |
|--|----|---------|--|------------|------------------|--|
|  | 20 | 8690059 |  | 2014-04-08 | Wallner          |  |
|  | 21 | 8628012 |  | 2014-01-14 | Wallner          |  |
|  | 22 | 9022285 |  | 2015-05-05 | Graylin          |  |
|  | 23 | 8814046 |  | 2014-08-26 | Wallner          |  |
|  | 24 | 9123036 |  | 2015-09-01 | Graylin , et al. |  |
|  | 25 | 9864994 |  | 2018-01-09 | Huang , et al.   |  |
|  | 26 | 9412105 |  | 2016-08-09 | Graylin , et al. |  |

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|                   | 1       | 20020073045        | A1                     | 2002-06-13       | Rubin, Aviel D. ; et al.                        |                                                                        |
|                   | 2       | 20030195842        | A1                     | 2003-10-16       | 20030195842                                     |                                                                        |

|                                                                                                     |                        |                     |
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|                                                                                                     | Attorney Docket Number | WYAT-0002.USD1C1C1C |

|  |   |             |    |            |                            |  |
|--|---|-------------|----|------------|----------------------------|--|
|  | 3 | 20080222047 | A1 | 2008-09-11 | Boalt; Adam                |  |
|  | 4 | 20090048971 | A1 | 2009-02-19 | Hathaway; Matthew ; et al. |  |
|  | 5 | 20160125417 | A1 | 2016-05-05 | Huang; Enyang ; et al.     |  |

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| Examiner Signature |  | Date Considered |  |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     | 16459150            |
|                                                                                                     | Filing Date            | 2019-07-01          |
|                                                                                                     | First Named Inventor   | David WYATT         |
|                                                                                                     | Art Unit               | 2887                |
|                                                                                                     | Examiner Name          | LEE, SEUNG H.       |
|                                                                                                     | Attorney Docket Number | WYAT-0002.USD1C1C1C |

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

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|                                                                                                     | Filing Date            | 2019-07-01          |
|                                                                                                     | First Named Inventor   | David WYATT         |
|                                                                                                     | Art Unit               | 2887                |
|                                                                                                     | Examiner Name          | LEE, SEUNG H.       |
|                                                                                                     | Attorney Docket Number | WYAT-0002.USD1C1C1C |

### CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

### SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

|            |                       |                     |            |
|------------|-----------------------|---------------------|------------|
| Signature  | /Anthony C. Murabito/ | Date (YYYY-MM-DD)   | 2020-10-26 |
| Name/Print | Anthony C. Murabito   | Registration Number | 35295      |

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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.
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| <b>EFS ID:</b>                              | 40945408                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Missy Isaac                                                                |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 26-OCT-2020                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 14:45:08                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

| Submitted with Payment | no                                                 |                                       |                                                  |                  |                  |
|------------------------|----------------------------------------------------|---------------------------------------|--------------------------------------------------|------------------|------------------|
| <b>File Listing:</b>   |                                                    |                                       |                                                  |                  |                  |
| Document Number        | Document Description                               | File Name                             | File Size(Bytes)/ Message Digest                 | Multi Part /.zip | Pages (if appl.) |
| 1                      | Information Disclosure Statement (IDS) Form (SB08) | WYAT-0002USD1C1C1C_IDS_10-26-2020.pdf | 612867<br>1777746111b75f662ae9c26b81c98e363da66c | no               | 7                |
| <b>Warnings:</b>       |                                                    |                                       |                                                  |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 612867 |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>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.</b></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](http://www.uspto.gov)

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 16/459,150      | 10/20/2020 | 10810579   | WYAT-0002.USD1C1C1C | 1554             |

136197 7590 09/30/2020  
David Wyatt c/o Murabito, Hao & Barnes  
111 North Market Street  
Suite 700  
San Jose, CA 95113

### ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

#### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

David WYATT, San Jose, CA;  
Virtual Electric Inc., San Jose, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit [SelectUSA.gov](http://SelectUSA.gov).

**PART B – FEE(S) TRANSMITTAL**

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

David Wyatt c/o Murabito, Hao & Barnes LLP  
111 North Market Street  
Suite 700  
San Jose, CA 95113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

|                |                         |
|----------------|-------------------------|
| Mina Oliveri   | (Typed or printed name) |
| /Mina Oliveri/ | (Signature)             |
| 9-16-2020      | (Date)                  |

| APPLICATION NO | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO  | CONFIRMATION NO |
|----------------|-------------|----------------------|---------------------|-----------------|
| 16/459,150     | 07/01/2019  | David WYATT          | WYAT-0002.USD1C1C1C | 1554            |

TITLE OF INVENTION:

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$500         | \$0.00              | \$0.00               | \$500            | 09/30/2020 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
|          |          |                |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1.
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2.
- 3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Virtual Electric Inc.

(B) RESIDENCE: (CITY and STATE or COUNTRY)

San Jose, CA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Method of Payment (Please first reapply any previously paid fee shown above):

- ☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-4160

5. Change of Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29. NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Anthony C. Murabito/

Date 9-16-2020

Typed or printed name Anthony C. Murabito

Registration No. 35,295

## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

## 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.

| Electronic Patent Application Fee Transmittal      |                 |                                                                                                |               |                             |
|----------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|---------------|-----------------------------|
| <b>Application Number:</b>                         |                 | 16459150                                                                                       |               |                             |
| <b>Filing Date:</b>                                |                 | 01-Jul-2019                                                                                    |               |                             |
| <b>Title of Invention:</b>                         |                 | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        |                 | David WYATT                                                                                    |               |                             |
| <b>Filer:</b>                                      |                 | Anthony C. Murabito/Mina Oliveri                                                               |               |                             |
| <b>Attorney Docket Number:</b>                     |                 | WYAT-0002.USD1C1C1C                                                                            |               |                             |
| Filed as Small Entity                              |                 |                                                                                                |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                 |                                                                                                |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b> | <b>Quantity</b>                                                                                | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                 |                                                                                                |               |                             |
| <b>Pages:</b>                                      |                 |                                                                                                |               |                             |
| <b>Claims:</b>                                     |                 |                                                                                                |               |                             |
| <b>Miscellaneous-Filing:</b>                       |                 |                                                                                                |               |                             |
| <b>Petition:</b>                                   |                 |                                                                                                |               |                             |
| <b>Patent-Appeals-and-Interference:</b>            |                 |                                                                                                |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>           |                 |                                                                                                |               |                             |
| UTILITY APPL ISSUE FEE                             | 2501            | 1                                                                                              | 500           | 500                         |

| Description        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: |          |          |        |                      |
| Miscellaneous:     |          |          |        |                      |
| Total in USD (\$)  |          |          |        | 500                  |

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 40579668                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Mina Oliveri                                                               |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 16-SEP-2020                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 17:47:33                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

|                                                                                                                                                                                          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Submitted with Payment                                                                                                                                                                   | yes              |
| Payment Type                                                                                                                                                                             | EFT              |
| Payment was successfully received in RAM                                                                                                                                                 | \$ 500           |
| RAM confirmation Number                                                                                                                                                                  | E20209FH48294335 |
| Deposit Account                                                                                                                                                                          | 504160           |
| Authorized User                                                                                                                                                                          | Mina Oliveri     |
| The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:<br>37 CFR 1.20 (Post Issuance fees)<br>37 CFR 1.19 (Document supply fees) |                  |

37 CFR 1.17 (Patent application and reexamination processing fees)  
37 CFR 1.16 (National application filing, search, and examination fees)

**File Listing:**

| Document Number | Document Description        | File Name                                      | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
|-----------------|-----------------------------|------------------------------------------------|------------------------------------------|------------------|------------------|
| 1               | Issue Fee Payment (PTO-85B) | WYAT-0002USD1C1C1C_IssueFee_Trان_9-16-2020.pdf | 273782                                   | no               | 2                |
|                 |                             |                                                | b68e21c81d5d050db6f26f559c4239e119221394 |                  |                  |

**Warnings:**

**Information:**

|   |                      |              |                                       |    |   |
|---|----------------------|--------------|---------------------------------------|----|---|
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30349                                 | no | 2 |
|   |                      |              | 18eea3d7fe8fa42946f2c0bc42f55eae7c01f |    |   |

**Warnings:**

**Information:**

|                                     |        |
|-------------------------------------|--------|
| <b>Total Files Size (in bytes):</b> | 304131 |
|-------------------------------------|--------|

**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.

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                        |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                | Application Number     |                     |
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |
| <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.</p> <p>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:**

|                          |                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.) |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Inventor Information:**

|                                                                                                                                                                                    |            |                |             |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------|----------------------|
| Inventor 1 <span style="float: right;">Remove</span>                                                                                                                               |            |                |             |                      |
| Legal Name                                                                                                                                                                         |            |                |             |                      |
| Prefix                                                                                                                                                                             | Given Name | Middle Name    | Family Name | Suffix               |
|                                                                                                                                                                                    | David      |                | WYATT       |                      |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service           |            |                |             |                      |
| City                                                                                                                                                                               | San Jose   | State/Province | CA          | Country of Residence |
|                                                                                                                                                                                    |            |                |             | US                   |
| Mailing Address of Inventor:                                                                                                                                                       |            |                |             |                      |
| Address 1                                                                                                                                                                          |            | 1314 Vanna Ct  |             |                      |
| Address 2                                                                                                                                                                          |            |                |             |                      |
| City                                                                                                                                                                               | San Jose   | State/Province | CA          |                      |
| Postal Code                                                                                                                                                                        | 95131      | Country        | US          |                      |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button. <span style="float: right;">Add</span> |            |                |             |                      |

**Correspondence Information:**

|                                                                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Enter either Customer Number or complete the Correspondence Information section below.<br>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                                                                                                                       | 136197                                                                                |
| Email Address                                                                                                                         | officeaction@mhbpatents.com <span style="float: right;">Add Email Remove Email</span> |

**Application Information:**

|                                         |                                                                                                |                                           |                                     |
|-----------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------|
| Title of the Invention                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                                           |                                     |
| Attorney Docket Number                  | WYAT-0002.USD1C1C1C                                                                            | Small Entity Status Claimed               | <input checked="" type="checkbox"/> |
| Application Type                        | Nonprovisional                                                                                 |                                           |                                     |
| Subject Matter                          | Utility                                                                                        |                                           |                                     |
| Total Number of Drawing Sheets (if any) | 7                                                                                              | Suggested Figure for Publication (if any) | 7                                   |

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

**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    | 136197                                           |                                              |                                                         |

**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 |                 | Patented                 | <del>Pending</del>       | <input type="button" value="Remove"/> |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number                         | Issue Date (YYYY-MM-DD) |
| 16459150                 | Continuation of | 15701261                 | 2017-09-11-2019-08-29    | 10339520                              | 2019-07-02              |

|                                           |  |                                                                                                |  |                     |  |
|-------------------------------------------|--|------------------------------------------------------------------------------------------------|--|---------------------|--|
| <b>Application Data Sheet 37 CFR 1.76</b> |  | Attorney Docket Number                                                                         |  | WYAT-0002.USD1C1C1C |  |
|                                           |  | Application Number                                                                             |  |                     |  |
| Title of Invention                        |  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |  |                     |  |

|                                                                                                                       |                               |                          |                                    |                        |                         |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------------------------|------------------------|-------------------------|
| Prior Application Status                                                                                              |                               | Patented                 |                                    | <a href="#">Remove</a> |                         |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number          | Issue Date (YYYY-MM-DD) |
| 15701261                                                                                                              | Continuation of               | 14981757                 | 2015-12-28                         | 9760884                | 2017-09-12              |
| Prior Application Status                                                                                              |                               | Patented                 |                                    | <a href="#">Remove</a> |                         |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number          | Issue Date (YYYY-MM-DD) |
| 14981757                                                                                                              | Continuation of               | 14680979                 | 2015-04-07                         | 9224083                | 2015-12-29              |
| Prior Application Status                                                                                              |                               | Patented                 |                                    | <a href="#">Remove</a> |                         |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number          | Issue Date (YYYY-MM-DD) |
| 14680979                                                                                                              | Division of                   | 14217261                 | 2014-03-17                         | 9022286                | 2015-05-05              |
| Prior Application Status                                                                                              |                               | Expired                  |                                    | <a href="#">Remove</a> |                         |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |                        |                         |
| 14217261                                                                                                              | Claims benefit of provisional | 61794891                 | 2013-03-15                         |                        |                         |
| Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button. |                               |                          |                                    |                        |                         |

## 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)<sup>i</sup> 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 <sup>i</sup> | Filing Date (YYYY-MM-DD) | <a href="#">Remove</a> | Access Code <sup>j</sup> (if applicable) |
|                                                                                                        |  |                      |                          |                        |                                          |
| Additional Foreign Priority Data may be generated within this form by selecting the <b>Add</b> button. |  |                      |                          |                        |                                          |

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

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.

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     | 16/459,150          |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> 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.<br>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. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

## 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.

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

## 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |                                                                        |       |
| <b>Applicant 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |                                                                        |       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Virtual Electric Inc.                                          |                                                                        |       |
| <b>Mailing Address Information For Applicant:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |                                                                        |       |
| Address 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1314 Vanna Ct                                                  |                                                                        |       |
| Address 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                                                        |       |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | San Jose                                                       | State/Province                                                         | CA    |
| Country                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | US                                                             | Postal Code                                                            | 95131 |
| Phone Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                | Fax Number                                                             |       |
| Email Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |                                                                        |       |
| 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.

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |             |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------|--------|
| <b>Assignee 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                |             |        |
| 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 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |             |        |
| <b>Mailing Address Information For Assignee including Non-Applicant Assignee:</b>                                                                                                                                                                                                                                                                                                                                                                      |            |                |             |        |
| Address 1                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                |             |        |
| Address 2                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                |             |        |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | State/Province |             |        |
| Country <sup>i</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 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.

|                                                                                     |                       |           |                   |                          |       |
|-------------------------------------------------------------------------------------|-----------------------|-----------|-------------------|--------------------------|-------|
| <b>Signature</b>                                                                    | /Anthony C. Murabito/ |           | Date (YYYY-MM-DD) | 2019-07-01<br>2020-08-03 |       |
| First Name                                                                          | Anthony               | Last Name | Murabito          | Registration Number      | 35295 |
| Additional Signature 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.

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

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 Patent Application Fee Transmittal      |                 |                                                                                                |               |                             |
|----------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|---------------|-----------------------------|
| <b>Application Number:</b>                         |                 | 16459150                                                                                       |               |                             |
| <b>Filing Date:</b>                                |                 | 01-Jul-2019                                                                                    |               |                             |
| <b>Title of Invention:</b>                         |                 | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        |                 | David WYATT                                                                                    |               |                             |
| <b>Filer:</b>                                      |                 | Anthony C. Murabito/Mina Oliveri                                                               |               |                             |
| <b>Attorney Docket Number:</b>                     |                 | WYAT-0002.USD1C1C1C                                                                            |               |                             |
| Filed as Small Entity                              |                 |                                                                                                |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                 |                                                                                                |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b> | <b>Quantity</b>                                                                                | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                 |                                                                                                |               |                             |
| <b>Pages:</b>                                      |                 |                                                                                                |               |                             |
| <b>Claims:</b>                                     |                 |                                                                                                |               |                             |
| <b>Miscellaneous-Filing:</b>                       |                 |                                                                                                |               |                             |
| PROCESSING FEE, EXCEPT PROV. APPLS.                | 2830            | 1                                                                                              | 70            | 70                          |
| <b>Petition:</b>                                   |                 |                                                                                                |               |                             |
| <b>Patent-Appeals-and-Interference:</b>            |                 |                                                                                                |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>           |                 |                                                                                                |               |                             |

| Description        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: |          |          |        |                      |
| Miscellaneous:     |          |          |        |                      |
| Total in USD (\$)  |          |          |        | 70                   |

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 40181368                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Mina Oliveri                                                               |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 03-AUG-2020                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 18:13:17                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

|                                                                                                                                                                                                                                           |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Submitted with Payment                                                                                                                                                                                                                    | yes              |
| Payment Type                                                                                                                                                                                                                              | EFT              |
| Payment was successfully received in RAM                                                                                                                                                                                                  | \$70             |
| RAM confirmation Number                                                                                                                                                                                                                   | E202083114181706 |
| Deposit Account                                                                                                                                                                                                                           | 504160           |
| Authorized User                                                                                                                                                                                                                           | Mina Oliveri     |
| <p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p> <p>37 CFR 1.19 (Document supply fees)</p> |                  |

37 CFR 1.20 (Post Issuance fees)  
37 CFR 1.21 (Miscellaneous fees and charges)

### File Listing:

| Document Number | Document Description   | File Name                                         | File Size(Bytes)/<br>Message Digest         | Multi Part /.zip | Pages (if appl.) |
|-----------------|------------------------|---------------------------------------------------|---------------------------------------------|------------------|------------------|
| 1               | Application Data Sheet | WYAT-0002USD1C1C1C1C_UP<br>DATED_ADS_8-3-2020.pdf | 101162                                      | no               | 9                |
|                 |                        |                                                   | 8bcafb666c1c28554781adff908325ec2fc4<br>2b8 |                  |                  |

### Warnings:

### Information:

This is not an USPTO supplied ADS fillable form

|   |                      |              |                                              |    |   |
|---|----------------------|--------------|----------------------------------------------|----|---|
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30725                                        | no | 2 |
|   |                      |              | 3ae27d64148bd9fefdddb713d04bede95d<br>0a9e35 |    |   |

### Warnings:

### Information:

|                                     |        |
|-------------------------------------|--------|
| <b>Total Files Size (in bytes):</b> | 131887 |
|-------------------------------------|--------|

**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.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                   |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION<br>PROCESSING THEREOF, SYSTEM AND METHOD |                                 |
| As the below named inventor, I hereby declare that:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                   |                                 |
| This declaration is directed to: <input type="checkbox"/> The attached application, or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                   |                                 |
| <input checked="" type="checkbox"/> United States application or PCT international application number <u>16/459,150</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                 |
| filed on <u>2019-07-01</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                   |                                 |
| The above-identified application was made or 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 hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                   |                                 |
| <b>WARNING:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                   |                                 |
| Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. |                                                                                                   |                                 |
| <b>LEGAL NAME OF INVENTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                   |                                 |
| Inventor: <u>David Wyatt</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                   | Date (Optional): <u>7/29/20</u> |
| Signature: <u>D. A. Wyatt</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                   |                                 |
| Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |                                 |

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 40143635                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Mina Oliveri                                                               |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 29-JUL-2020                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 19:40:20                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

| Submitted with Payment | no                        |                                      |                                                     |                  |                  |
|------------------------|---------------------------|--------------------------------------|-----------------------------------------------------|------------------|------------------|
| <b>File Listing:</b>   |                           |                                      |                                                     |                  |                  |
| Document Number        | Document Description      | File Name                            | File Size(Bytes)/ Message Digest                    | Multi Part /.zip | Pages (if appl.) |
| 1                      | Oath or Declaration filed | WYAT-0002USD1C1C1C_Declaration-1.pdf | 1835170<br>2618a19bf2dec1e0ca95259a20b88c8a38876a80 | no               | 1                |
| <b>Warnings:</b>       |                           |                                      |                                                     |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1835170 |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>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.</b></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

## NOTICE OF ALLOWANCE AND FEE(S) DUE

136197 7590 06/30/2020  
David Wyatt c/o Murabito, Hao & Barnes  
111 North Market Street  
Suite 700  
San Jose, CA 95113

EXAMINER

LEE, SEUNG H

ART UNIT

PAPER NUMBER

2887

DATE MAILED: 06/30/2020

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/459,150      | 07/01/2019  | David WYATT          | WYAT-0002.USD1C1C   | 1554             |

TITLE OF INVENTION: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$500         | \$0.00              | \$0.00               | \$500            | 09/30/2020 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at [www.uspto.gov/PatentMaintenanceFees](http://www.uspto.gov/PatentMaintenanceFees).**

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

136197 7590 06/30/2020  
David Wyatt c/o Murabito, Hao & Barnes  
111 North Market Street  
Suite 700  
San Jose, CA 95113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

### Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

|                         |
|-------------------------|
| (Typed or printed name) |
| (Signature)             |
| (Date)                  |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/459,150      | 07/01/2019  | David WYATT          | WYAT-0002.USD1C1C1C | 1554             |

TITLE OF INVENTION: SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$500         | \$0.00              | \$0.00               | \$500            | 09/30/2020 |

| EXAMINER     | ART UNIT | CLASS-SUBCLASS |
|--------------|----------|----------------|
| LEE, SEUNG H | 2887     | 235-380000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. \_\_\_\_\_

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

**NOTE:** Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

**NOTE:** If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

**NOTE:** Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_



# UNITED STATES PATENT AND TRADEMARK OFFICE

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

| APPLICATION NO.                                                                                                                | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.      | CONFIRMATION NO. |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|--------------------------|------------------|
| 16/459,150                                                                                                                     | 07/01/2019  | David WYATT          | WYAT-0002.USD1C1C1C      | 1554             |
| 136197 7590 06/30/2020<br>David Wyatt c/o Murabito, Hao & Barnes<br>111 North Market Street<br>Suite 700<br>San Jose, CA 95113 |             |                      | EXAMINER<br>LEE, SEUNG H |                  |
|                                                                                                                                |             |                      | ART UNIT<br>2887         | PAPER NUMBER     |
| DATE MAILED: 06/30/2020                                                                                                        |             |                      |                          |                  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

### 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.

|                               |                                      |                                     |                                |
|-------------------------------|--------------------------------------|-------------------------------------|--------------------------------|
| <b>Notice of Allowability</b> | <b>Application No.</b><br>16/459,150 | <b>Applicant(s)</b><br>WYATT, David |                                |
|                               | <b>Examiner</b><br>SEUNG H LEE       | <b>Art Unit</b><br>2887             | <b>AIA (FITF) Status</b><br>No |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/20/2020.  
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_\_.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-18 and 20-24. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

**Certified copies:**  
a) ☐ All      b) ☐ Some      \*c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

|                                                                                                                   |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                                  | 5. <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____.          | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material _____. | 7. <input type="checkbox"/> Other _____.                                             |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date. _____.                           |                                                                                      |

|                                                  |  |
|--------------------------------------------------|--|
| /SEUNG H LEE/<br>Primary Examiner, Art Unit 2887 |  |
|--------------------------------------------------|--|

**DETAILED ACTION**

***Notice of Pre-AIA or AIA Status***

1. The present application is being examined under the pre-AIA first to invent provisions.
2. Receipt is acknowledged of the response filed on May 20, 2020, which has been entered in the file.

***Allowable Subject Matter***

3. Claims 1-18 and 20-24 are allowed.
4. The following is an examiner's statement of reasons for allowance:

None of prior art teaches a method of performing a transaction comprising receiving an input at an electronic device, wherein the input corresponds to a priming operation of the electronic device by an identified user and wherein the electronic device comprises a near field communications (NFC) interface coupled to the processor, receiving a request for a transaction payment at the electronic device via the NFC interface, generating, by the processor, a limited-use payment information, and using the limited-use payment information in place of the card issuer supplied payment information, transmitting the limited-use payment information from the electronic device to an NFC recipient of the transaction via the NFC interface, and visually conveying a status of the transaction via a user-interface displayed on the touch-screen display, and obtaining a user payment approval through at least one user-interface of the electronic device as set forth in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEUNG H LEE whose telephone number is (571)272-2401. The examiner can normally be reached on 7-4:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 16/459,150  
Art Unit: 2887

Page 4

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SEUNG H LEE/  
Primary Examiner, Art Unit 2887

|                                                                                                                  |                                              |                                                                |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                  | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

| CPC    |   |    |   |       |      |            |
|--------|---|----|---|-------|------|------------|
| Symbol |   |    |   |       | Type | Version    |
| G06Q   | / | 20 | / | 341   | F    | 2013-01-01 |
| G07F   | / | 19 | / | 00    | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 06    | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 223   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 347   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 385   | I    | 2013-01-01 |
| G07F   | / | 7  | / | 0873  | I    | 2013-01-01 |
| G06K   | / | 19 | / | 06206 | I    | 2013-01-01 |
| G06K   | / | 19 | / | 0716  | I    | 2013-01-01 |
| G06K   | / | 19 | / | 07749 | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 24    | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 352   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 409   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 065   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 346   | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 3827  | I    | 2013-01-01 |
| G06Q   | / | 20 | / | 4012  | I    | 2013-01-01 |

| CPC Combination Sets |      |     |         |         |  |
|----------------------|------|-----|---------|---------|--|
| Symbol               | Type | Set | Ranking | Version |  |
| /                    |      |     |         |         |  |

|                                 |              |                              |                   |
|---------------------------------|--------------|------------------------------|-------------------|
| NONE                            |              | <b>Total Claims Allowed:</b> |                   |
| (Assistant Examiner)            | (Date)       | 23                           |                   |
| /SEUNG H LEE/                   | 20 June 2020 | O.G. Print Claim(s)          | O.G. Print Figure |
| Primary Examiner, Art Unit 2887 | (Date)       | 1                            | 4B                |

U.S. Patent and Trademark Office

Part of Paper No.: 20200620

|                                                                                                                  |                                              |                                                                |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                  | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

|                                     |  |    |    |
|-------------------------------------|--|----|----|
| <b>INTERNATIONAL CLASSIFICATION</b> |  |    |    |
| <b>CLAIMED</b>                      |  |    |    |
| G06Q20/34                           |  | 20 | 34 |

|                    |  |  |  |
|--------------------|--|--|--|
| <b>NON-CLAIMED</b> |  |  |  |
|                    |  |  |  |

|                                   |                 |
|-----------------------------------|-----------------|
| <b>US ORIGINAL CLASSIFICATION</b> |                 |
| <b>CLASS</b>                      | <b>SUBCLASS</b> |
|                                   |                 |

|                            |                                          |  |  |  |  |  |
|----------------------------|------------------------------------------|--|--|--|--|--|
| <b>CROSS REFERENCES(S)</b> |                                          |  |  |  |  |  |
| <b>CLASS</b>               | <b>SUBCLASS (ONE SUBCLASS PER BLOCK)</b> |  |  |  |  |  |
|                            |                                          |  |  |  |  |  |

|                                                  |              |                              |                   |
|--------------------------------------------------|--------------|------------------------------|-------------------|
| NONE                                             |              | <b>Total Claims Allowed:</b> |                   |
| (Assistant Examiner)                             | (Date)       | 23                           |                   |
| /SEUNG H LEE/<br>Primary Examiner, Art Unit 2887 | 20 June 2020 | O.G. Print Claim(s)          | O.G. Print Figure |
| (Primary Examiner)                               | (Date)       | 1                            | 4B                |

U.S. Patent and Trademark Office

Part of Paper No.: 20200620

|                                                                                                                  |                                              |                                                                |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                  | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

|                                                                                                                                                                                   |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |
| <b>CLAIMS</b>                                                                                                                                                                     |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |
| <b>Final</b>                                                                                                                                                                      | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> | <b>Final</b> | <b>Original</b> |
| 1                                                                                                                                                                                 | 1               | 10           | 10              |              | 19              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 2                                                                                                                                                                                 | 2               | 11           | 11              | 19           | 20              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 3                                                                                                                                                                                 | 3               | 12           | 12              | 20           | 21              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 4                                                                                                                                                                                 | 4               | 13           | 13              | 21           | 22              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 5                                                                                                                                                                                 | 5               | 14           | 14              | 22           | 23              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 6                                                                                                                                                                                 | 6               | 15           | 15              | 23           | 24              |              |                 |              |                 |              |                 |              |                 |              |                 |
| 7                                                                                                                                                                                 | 7               | 16           | 16              |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |
| 8                                                                                                                                                                                 | 8               | 17           | 17              |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |
| 9                                                                                                                                                                                 | 9               | 18           | 18              |              |                 |              |                 |              |                 |              |                 |              |                 |              |                 |

|                                                                                                  |  |                                    |                         |
|--------------------------------------------------------------------------------------------------|--|------------------------------------|-------------------------|
| NONE<br><br>(Assistant Examiner) _____ (Date) _____                                              |  | <b>Total Claims Allowed:</b><br>23 |                         |
| /SEUNG H LEE/<br>Primary Examiner, Art Unit 2887<br>(Primary Examiner) _____ (Date) 20 June 2020 |  | O.G. Print Claim(s)<br>1           | O.G. Print Figure<br>4B |

U.S. Patent and Trademark Office

Part of Paper No.: 20200620

|                                                                                                                 |                                              |                                                                |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b><i>Search Notes</i></b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                 | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

| CPC - Searched*                                                                                                                                                                                                                                            |            |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Symbol                                                                                                                                                                                                                                                     | Date       | Examiner |
| G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or<br>G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or<br>G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or<br>G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or<br>G07F19/00 | 06/20/2020 | sl       |

| CPC Combination Sets - Searched* |      |          |
|----------------------------------|------|----------|
| Symbol                           | Date | Examiner |
|                                  |      |          |

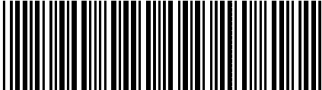
| US Classification - Searched* |          |      |          |
|-------------------------------|----------|------|----------|
| Class                         | Subclass | Date | Examiner |
|                               |          |      |          |

\* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| Search Notes                                   |            |          |
|------------------------------------------------|------------|----------|
| Search Notes                                   | Date       | Examiner |
| EAST                                           | 06/20/2020 | sl       |
| 14/680979, 14/981757, 15/701261 (parent cases) | 06/20/2020 | sl       |

| Interference Search |                       |            |          |
|---------------------|-----------------------|------------|----------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date       | Examiner |
|                     | same as above         | 06/20/2020 | sl       |

|  |  |
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|  |  |
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|                                                                                                                    |                                              |                                                                |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                    | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

| CLAIMS                                                                                                                                                                            |          |            |            |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|--|--|--|--|--|--|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |          |            |            |  |  |  |  |  |  |
| CLAIM                                                                                                                                                                             |          | DATE       |            |  |  |  |  |  |  |
| Final                                                                                                                                                                             | Original | 05/05/2020 | 06/20/2020 |  |  |  |  |  |  |
| 1                                                                                                                                                                                 | 1        | =          | =          |  |  |  |  |  |  |
| 2                                                                                                                                                                                 | 2        | =          | =          |  |  |  |  |  |  |
| 3                                                                                                                                                                                 | 3        | =          | =          |  |  |  |  |  |  |
| 4                                                                                                                                                                                 | 4        | =          | =          |  |  |  |  |  |  |
| 5                                                                                                                                                                                 | 5        | =          | =          |  |  |  |  |  |  |
| 6                                                                                                                                                                                 | 6        | =          | =          |  |  |  |  |  |  |
| 7                                                                                                                                                                                 | 7        | =          | =          |  |  |  |  |  |  |
| 8                                                                                                                                                                                 | 8        | =          | =          |  |  |  |  |  |  |
| 9                                                                                                                                                                                 | 9        | =          | =          |  |  |  |  |  |  |
| 10                                                                                                                                                                                | 10       | =          | =          |  |  |  |  |  |  |
| 11                                                                                                                                                                                | 11       | =          | =          |  |  |  |  |  |  |
| 12                                                                                                                                                                                | 12       | =          | =          |  |  |  |  |  |  |
| 13                                                                                                                                                                                | 13       | =          | =          |  |  |  |  |  |  |
| 14                                                                                                                                                                                | 14       | =          | =          |  |  |  |  |  |  |
| 15                                                                                                                                                                                | 15       | ✓          | =          |  |  |  |  |  |  |
| 16                                                                                                                                                                                | 16       | ✓          | =          |  |  |  |  |  |  |
| 17                                                                                                                                                                                | 17       | ✓          | =          |  |  |  |  |  |  |
| 18                                                                                                                                                                                | 18       | ✓          | =          |  |  |  |  |  |  |
|                                                                                                                                                                                   | 19       | O          | -          |  |  |  |  |  |  |
| 19                                                                                                                                                                                | 20       | =          | =          |  |  |  |  |  |  |
| 20                                                                                                                                                                                | 21       | =          | =          |  |  |  |  |  |  |
| 21                                                                                                                                                                                | 22       | =          | =          |  |  |  |  |  |  |
| 22                                                                                                                                                                                | 23       | =          | =          |  |  |  |  |  |  |
| 23                                                                                                                                                                                | 24       | =          | =          |  |  |  |  |  |  |

## EAST Search History

### EAST Search History (Prior Art)

| Ref # | Hits   | Search Query                                                                                                                                                                                                                                          | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|---------|------------------|
| L8    | 31,288 | (G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or G07F19/00).cpc. | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:19 |
| L9    | 135    | L8 and (nfc same select\$4 same payment same limit\$4)                                                                                                                                                                                                | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:19 |
| L10   | 112    | L8 and (nfc same payment same limit\$4 same approv\$4)                                                                                                                                                                                                | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:20 |
| L11   | 7      | L8 and (nfc same payment same limit\$4 same approv\$4 same interface)                                                                                                                                                                                 | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:20 |
| L12   | 10     | L8 and (nfc same select\$4 same payment same limit\$4 same approv\$4)                                                                                                                                                                                 | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:28 |
| L13   | 36     | (nfc same select\$4 same payment same limit\$4 same approv\$4)                                                                                                                                                                                        | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/06/21 14:29 |
| L14   | 6      | ((("10339520") or ("9760884") or ("9224083") or ("9022286"))).PN.                                                                                                                                                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2020/06/21 14:30 |
| S1    | 30,843 | (G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or G07F19/00).cpc. | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/04/27 12:21 |

|     |     |                                                                                                                                                                                                                                                 |                           |    |     |                  |
|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----|-----|------------------|
| S2  | 1   | nfc same transaction same payment same logo same limited same issuer                                                                                                                                                                            | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/04/27 12:22 |
| S4  | 311 | monitor\$4 same master same node same wireless same sensor                                                                                                                                                                                      | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 12:55 |
| S5  | 18  | S4.clm.                                                                                                                                                                                                                                         | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 12:55 |
| S6  | 107 | S4 same (slave peripheral)                                                                                                                                                                                                                      | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 12:56 |
| S7  | 7   | S6.clm.                                                                                                                                                                                                                                         | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 12:56 |
| S8  | 17  | ("20030018927"   "9860688"   "20180165568"   "20150154531"   "9189226"   "20100082870"   "20170039666"   "20180046964"   "9824329"   "20080239282"   "9182231"   "20130107770"   "20070049291"   "6614392"   "20100299401"   "20160233927").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 12:58 |
| S9  | 9   | S6 same (environment\$4 temperature)                                                                                                                                                                                                            | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 13:00 |
| S10 | 9   | ("20130250357"   "20150324745"   "7177054"   "8292173"   "7048194"   "7299990"   "7540603"   "8072620"   "20100096181").PN.                                                                                                                     | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/01 13:04 |
| S11 | 39  | ("2015/0324745").URPN.                                                                                                                                                                                                                          | USPAT                     | OR | OFF | 2020/05/02 08:57 |
| S12 | 35  | label same wireless same master same (slave peripheral)                                                                                                                                                                                         | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/02 09:00 |
| S13 | 39  | "517508"                                                                                                                                                                                                                                        | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2020/05/02 09:19 |
| S14 | 6   | ((("10339520") or ("9760884") or ("9224083") or ("9022286"))).PN.                                                                                                                                                                               | US-PGPUB;                 | OR | OFF | 2020/05/04 05:07 |

|     |        |                                                                                                                                                                                                                                                       |                                               |    |     |                     |
|-----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----|-----|---------------------|
|     |        |                                                                                                                                                                                                                                                       | USPAT;<br>USOCR;<br>EPO; JPO                  |    |     |                     |
| S15 | 55     | nfc same transaction same payment same limited same issuer                                                                                                                                                                                            | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/04<br>05:07 |
| S16 | 5      | S15 same proximity                                                                                                                                                                                                                                    | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/04<br>05:08 |
| S17 | 30,909 | (G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or G07F19/00).cpc. | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:24 |
| S18 | 129    | S17 and (nfc same select\$4 same payment same limit\$4)                                                                                                                                                                                               | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:25 |
| S19 | 43     | S17 and (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                               | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:26 |
| S20 | 6      | ((("10339520") or ("9760884") or ("9224083") or ("9022286"))).PN.                                                                                                                                                                                     | US-<br>PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2020/05/05<br>08:33 |
| S21 | 0      | S20 and (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                               | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:33 |
| S22 | 109    | (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                                       | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:33 |
| S23 | 94     | S22 same (mobile portable)                                                                                                                                                                                                                            | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:34 |
| S24 | 4,186  | dynamic same credit same card                                                                                                                                                                                                                         | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/05<br>08:35 |

|     |    |                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |    |     |                     |
|-----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----|-----|---------------------|
| S25 | 7  | S22 and S24                                                                                                                                                                                                                                                                                                                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/05<br>08:35 |
| S26 | 23 | ("20020073025"   "20030101137"  <br>"20070278290"   "20100057553"  <br>"20100082487"   "20110137748"  <br>"20110302089"   "20120006891"  <br>"20140052607"   "20140129422"  <br>"20140143037"   "20140195324"  <br>"20140249941"   "20140279474"  <br>"20150058145"   "20160027005"  <br>"20160086161"   "20160162857"  <br>"20160162887"   "20160335619"  <br>"6633223"   "9292849"   "9489671").PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>08:38 |
| S27 | 6  | ("20040168067"   "20090276347"  <br>"20110016047"   "20120173311"  <br>"20130159186"   "6163771").PN.                                                                                                                                                                                                                                                                                                 | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>08:39 |
| S28 | 4  | ((("10339520") or ("9760884") or<br>("9224083") or ("9022286"))).PN.                                                                                                                                                                                                                                                                                                                                  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>09:39 |
| S29 | 1  | S28 and (respons\$4 same nfc same<br>generat\$4)                                                                                                                                                                                                                                                                                                                                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/05<br>09:40 |

6/21/2020 2:31:39 PM

C:\Users\slee5\Documents\EAST\Workspaces\16-459150.wsp

## Bibliographic Data

Application No: 16/459,150

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/SEUNG H LEE/

Examiner's Signature

Initials

Title:

SMART TOKENIZING PAYMENT CARD AND DEVICE AND  
TRANSACTION PROCESSING THEREOF, SYSTEM AND  
METHOD

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| FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|-----------------------|-------|----------------|---------------------|
| 07/01/2019            | 235   | 2887           | WYAT-0002.USD1C1C1C |
| RULE                  |       |                |                     |

### APPLICANTS

Virtual Electric Inc., San Jose, CA,

### INVENTORS

David WYATT San Jose, CA, UNITED STATES

### CONTINUING DATA

This application is a CON of 15701261 09/11/2017 PAT 10339520

15701261 is a CON of 14981757 12/28/2015 PAT 9760884

14981757 is a CON of 14680979 04/07/2015 PAT 9224083

14680979 is a DIV of 14217261 03/17/2014 PAT 9022286

14217261 has PRO of 61794891 03/15/2013

### FOREIGN APPLICATIONS

### IF REQUIRED, FOREIGN LICENSE GRANTED\*\*

07/17/2019

\*\* SMALL ENTITY \*\*

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\$1,065

WYAT-0002.USD1C1C1C

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wyatt

Serial: 16/459,150

Group Art Unit: 2887

Filed: 07-01-2019

Examiner: Lee, Seung H.

For: Smart Tokenizing Payment Card and Device and Transaction Processing  
Thereof, System and Method

Honorable Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

AMENDMENT and RESPONSE

Dear Examiner Lee:

In response to the Office Action mailed 5/8/2020, please enter the indicated amendments and consider the following remarks for filing in the above captioned patent application.

WYAT-0002.USD1C1C1C/ACM/NAO  
Examiner: Lee, S. H.

1

Serial No.: 16/459,150  
Group Art Unit: 2887

In the Claims:

1. (original) A method of performing a transaction, the method comprising:
  - receiving an input at an electronic device, wherein the input corresponds to a priming operation of the electronic device by an identified user and wherein the electronic device comprises:
    - a processor; a touch screen display coupled to the processor; and
    - a near field communications (NFC) interface coupled to the processor;
  - receiving a request for a transaction payment at said electronic device via the NFC interface;
  - displaying, on the touch-screen display, images of:
    - a card issuer payment method selection, including a last 4-digit partial number of a card issuer supplied account number of a payment card;
    - a card logo; and
    - other iconography of the payment card;
  - generating, by the processor, a limited-use payment information, and using said limited-use payment information in place of said card issuer supplied payment information;
  - transmitting said limited-use payment information from said electronic device to an NFC recipient of the transaction via said NFC interface; and
  - visually conveying a status of said transaction via a user-interface displayed on said touch-screen display.

2. (original) The method of Claim 1, wherein the generating the limited-use payment information utilizes at least one information from a set of information comprising:

- a device transaction sequence counter;
- a device account number; device secret keys;
- card issuer keys;
- merchant information;
- NFC recipient information;
- payment reader information;
- a time;
- a timestamp;
- an amount;
- a location;
- an online location;
- transaction information;
- payment information;
- device information;
- user information;
- an email address; and
- a user identification entry.

3. (original) The method of Claim 1, further comprising:

dynamically generating a cryptogram number for use by the electronic device in place of a card validation value originated from the card issuer, and wherein the dynamically generating the cryptogram number comprises cryptographically combining a device transaction sequence counter count and at least one information of a set of information comprising:

a device account number;

device identifiers;

device secrets;

device keys;

payment issuer secrets;

payment issuer keys;

user information;

a time; and

transaction information; and

wherein further, said dynamically generating the cryptogram number results in a one-time limited-use number via the device incrementing said device transaction sequence counter count on a transaction.

4. (original) The method of Claim 1, wherein a limited-use number comprises a device account number, and wherein the device account number is of a limited time-duration of valid use,

and wherein further a card issuing authority provides said device account number for use only by the electronic device, in place of card issuer information in performing payment transactions by the electronic device, and further comprising: performing payment transactions by the electronic device including the limited-use number;

combining the limited-use number and said device account number within a device generated payment information; and

conveying said device generated payment information, in place of card issuer information, when the device is performing payment transactions.

5. (original) The method of Claim 1, further comprising:

generating a limited-use security number for use in place of a card issuer card security code by cryptographically combining information from at least one of a set of information comprising:

user information;

an internet address;

an email address;

a device transaction sequence counter;

a device account number;

device identifiers;

device secrets;

device keys;

issuer secrets;

issuer keys;  
a payment card account number;  
a payment card security code;  
a time;  
an expiration date;  
an amount;  
a merchant locality;  
transaction information; and  
displaying the limited-use security number on the user-interface of the display.

6. (original) The method of Claim 1, wherein a payment processing authority verifies a limited-use number based on at least one information of the set of information comprising:

a transaction sequence count information;  
a device account number;  
user account information;  
issuer secrets;  
issuer keys;  
issuer-provided device keys;  
transaction information; and  
a time of use, and further comprising:

authorizing said transaction, by the payment processing authority,  
responsive to verifying a valid limited-use number appearing in place of card issuer  
information; and

rejecting a limited-use number, by the payment processing authority, on at  
least one unverifiable condition, of a set of unverifiable conditions comprising:

- an invalid number generation;
- an invalid device account number;
- a use outside of a valid time window;
- an invalid re-use of a limited-use number; and
- an invalid use of an expired limited-duration number.

7. (original) The method of Claim 1, wherein the receiving an input at an electronic  
device comprises receiving an input via a user interface from one of the set of user  
interfaces comprising:

- a device button;
- a device touch-screen interface;
- a device touch ID button interface;
- an device optical sensor array;
- a device skin touch sensor;
- a skin-contact sensor;
- a device motion detection interface;
- a device biometric sensor interface; and
- a device user-interface selection.

8. (original) The method of claim 1, wherein the priming operation comprises one operation of the set of operations comprising:

- a button press;
  - a touch ID button press;
  - a button double-press;
  - a touch ID sensor touch;
  - a touch-screen touch;
  - a touch-input sequence;
  - a gesture or swipe over a sensor-array;
  - a skin-contact sense;
  - an optical-sensor array sense;
  - an electronic device tap;
  - a sequence of motions of the electronic device;
  - a user-interface selection of a payment method; and
  - a user-interface selection initiating a payment-operation; and,
- further comprising enabling the electronic device for payment via successfully completing at least one of a set of user-validations comprising:
- a touching from an identified valid user;
  - a user entry of a valid passcode;
  - a user entry of a valid PIN;
  - swiping of a recognized user skin over a device sensor array;
  - a correct user swiping or gesturing on the electronic device;

a correct sequence of user taps on the electronic device;  
a correct user sequence of user motioning of the electronic device;  
a skin-contact sensing of an identified user;  
a device biometric sensing of a valid user identity; and  
a device biometric sensing the electronic device is continuously remaining in  
the proximity possession of a valid user.

9. (original) The method of Claim 1, further comprising:

obtaining, by the electronic device, a user payment approval, through at least one  
device user interface of a set of interfaces comprising:

a device display interface;  
a device touch-screen display interface;  
a device touch interface;  
device input buttons;  
device key-pad inputs,  
a device optical sensor array;  
a device motion detection unit;  
a device accelerometer;  
a device biometric user-sensor; and  
a device biometric sensing the electronic device is continuously remaining in  
the proximity contact of a valid user; and  
displaying, on the display, at least one information of a set of information

comprising:

WYAT-0002.USD1C1C1C/ACM/NAO  
Examiner: Lee, S. H.

9

Serial No.: 16/459,150  
Group Art Unit: 2887

a priming status of the electronic device for payment;  
a default payment method;  
a plurality of selectable payment accounts;  
a payment request;  
transaction information;  
a payment amount;  
a merchant identification;  
a time;  
an expiration date;  
a location;  
an account balance;  
a payment bank logo;  
a card image;  
a payment card issuer icon;  
a payment card network icon;  
the last 4-digits of the primary account number;  
the last 4-digits of the device account number; and  
other payment iconography; and  
receiving a user input of at least one user action, from a set of actions  
comprising:  
a payment method selection;  
a payment approval authorization;  
a payment denial; and

an adjustment of a transaction payment.

10. (original)The method of Claim 1, further comprising:

activating an NFC communication for a limited duration of time responsive to the electronic device priming; and

responsive to the preset duration being exceeded, terminating the NFC communications and aborting the transaction.

11. (original)The method of Claim 1, further comprising completing the transaction on the electronic device, wherein the completing further comprises:

receiving an authorization input on the electronic device from a valid device user, in response to at least one of a set of exceptional conditions comprising:

the electronic device leaving the proximity of the NFC recipient;

the incomplete identifying of a valid device user;

the electronic device leaving the user's possession;

the electronic device leaving the proximity contact of the user;

the electronic device leaving the grasp of the user;

a biometric sensing the electronic device leaving the possession of a user since a last user validation;

the transaction exceeding a pre-set amount limit;

the transaction interval exceeding a pre-set time duration;

a card issuing authority requesting a security check; and

presenting the user with at least one of an set of selectable options  
comprising: requesting a transaction payment;  
continuing with the default payment method;  
selecting an alternate payment account;  
inputting an approval authorization;  
inputting a transaction denial; and  
inputting an adjustment of the transaction payment.

12. (original)The method of Claim 1, further comprising:

subsequent to the priming operation, offering a user selection of payment  
options for user input selection by presenting a selection of payment options in  
graphical format on said touch-screen display, including at least one of:

a last four digits of a payment account number portion;

a last four digits of a device account number portion;

an expiration date;

a card issuer icon;

a bank logo;

a card processing network logo;

a card image;

a card payment network icon;

graphical images associated with the payment account;

accepting a user input selection of a payment option, from said payment  
options, via said touch-screen display; and

WYAT-0002.USD1C1C1C/ACM/NAO  
Examiner: Lee, S. H.

12

Serial No.: 16/459,150  
Group Art Unit: 2887

proceeding with a default payment option in said device payment transaction responsive to a user not selecting any of said payment options.

13. (original) A method of Claim 1, wherein the priming operation comprises:

a button double press; and

a biometric sense of the device continuously remaining in the proximity contact of a valid user, since a last validation; and further comprising:

denying the priming operation for payment when the electronic device is not sensed as being continuously within the proximity contact of a valid user, until after successfully re-validating a user; and wherein re-validating a user requires a correct user passcode re-entry;

disabling a device priming operation on further button pressing;

disabling a payment priming operation after the expiration of a pre-set time duration from a successful priming action; and

disabling a device priming operation responsive to completing a transaction.

14. (original) A method of Claim 1, wherein the priming operation is input after at least one of: a biometric sense of a touch contact of a valid user's skin on a touch ID button of the electronic device, and validating a user passcode entry on the touch-screen display of the electronic device;

disabling a device priming operation on further button pressing;

disabling a payment priming operation after the expiration of a pre-set time duration from a successful priming action; and

disabling a device priming operation responsive to completing a transaction.

15. (currently amended) A method of performing a transaction, the method comprising:

receiving an input signal at an electronic device, the input signal corresponding to a request for payment of a transaction at said electronic device, via a recipient proximity communication request to an NFC interface of the electronic device;

displaying a summary of selectable payment account options at a touch-screen display user-interface of the electronic device;

receiving, from a valid device user, a payment selection and approval authorization input on the electronic device;

generating a limited-use number at said electronic device, and using said limited-use number in place of at least a portion of selected account issuer payment information; and

transmitting said limited-use number from said electronic device to a transaction recipient via the NFC interface;

obtaining a user payment approval through at least one user-interface of the electronic device, of a set of user-interfaces comprising:

a touch-screen interface of the touch-screen display user-interface;

a touch ID button;

input buttons;

a touch key-pad;

an optical sensor array;

a sensor array operable to recognize a swiping of a recognized user  
skin over the sensor array;

a motion detection unit;

an accelerometer;

a biometric user-sensor;

a device biometric sensor operable to determine the electronic device  
continuously remains in contact with a valid user while the electronic device is  
coming within proximity contact of an NFC recipient;

displaying on said display at least one of a set of information comprising:

transaction information;

merchant information;

a time;

a location of the transaction;

a payment bank logo;

a card issuer icon;

a payment card image;

an amount; and

receiving a user input providing for at least one transaction action, from a set  
of actions comprising:

approving a transaction;

denying a transaction; and

adjusting a transaction.

16. (original)The method of Claim 15, further comprising:

visually conveying on the touch-screen display user-interface, information regarding the transaction, including at least one of:

- a payment amount requested;
- an indication requesting an authorization input;
- an indication of an authorization success;
- an indication of an authorization failure;
- an option to retry a transaction;
- an option to retry a user authorization;
- an option to retry validating a user identity;
- an indication of a payment successfully completed;
- an indication of a payment failure; and
- an indication of a payment retry option.

17. (original)The method of Claim 15, further comprising:

visually presenting on the touch-screen display user-interface, a plurality of payment options, including at least one of a set of payment method information for each payment option, the set comprising:

- a card image;
- a payment issuer logo;
- partial payment account numbers;
- a card payment network icon;

a graphical image-encoding of a users payment account information;  
an amount of currency;  
an account balance;  
a credit limit;  
an amount of remaining credit;  
an amount of cryptocurrency;  
a cryptocurrency server network; and  
receiving a user-selection of a payment method for a transaction via said  
touch-screen display user-interface.

18. (original)The method of Claim 15, further comprising:

receiving a priming operation at the electronic device for priming the  
electronic device for imminent payment, wherein the priming operation causes the  
electronic device to successfully identify the user through completing at least one  
user-validation, of a set of user validations comprising:

a touching of the device by an identified user;  
a user entry of a valid passcode;  
a user entry of a valid PIN;  
a swiping of a recognized user skin over a sensor array of the electronic device;  
a correct user swiping or gesturing on a touch sensor array of the electronic device;  
a correct sequence of user taps on the electronic device;  
a correct user sequence of user motions of the electronic device;  
a skin-contact sense of a valid user; and

a device biometric recognition of a valid user.

19. (canceled)

20. (original) An electronic device comprising:

at least one processor;

a memory coupled to the at least one processor;

a display operable to present a visual user-interface comprising device

inputs; display output;

a device input;

an NFC interface operable to receive a transaction request when in proximity  
to an NFC recipient;

wherein the processor is operable to execute a program to implement a  
method comprising:

accepting a priming action of the electronic device by an identified device  
user, from the device input;

enabling the electronic device for imminent performance of a payment  
operation responsive to the priming action of a valid user;

displaying a summary of selectable payment account options on the display;  
receiving a payment selection and approval authorization from a valid device user  
via the device input; and

responsive to receiving an NFC transaction payment request, generating a limited-use payment information for use in place of card issuer payment information,

wherein the NFC interface is operable to transmit said payment information from said electronic device to the NFC recipient of the transaction; and

wherein further the processor is operable to cause the display to visually convey a status of the transaction.

21. (original)The electronic device of Claim 20, wherein the method further comprises:

receiving the priming action of a valid user via the device input, wherein the device input comprises at least one of a set of device inputs comprising:

a button;

a touch ID button;

a touch sensor array;

a touch key-pad;

a motion detection unit;

an accelerometer;

an optical sensor array; and

identifying a valid device user through an input detection, selected from at least one of a set comprising:

a correct passcode entry sequence;

a touch ID recognition of a known user;

a biometric recognition of a valid user;  
a biometric sensing of a valid users skin;  
a biometric detection that the electronic device continuously remains in  
contact with a valid user; and  
receiving a correct user response input, from a security challenge presented  
on the display.

22. (original)The electronic device of Claim 20, wherein the memory is accessible to  
the processor,

wherein said memory comprises a static device-specific device account  
number of limited-use that originates from a card issuing authority and is limited to  
use by the electronic device in place of a card issuer account information,

wherein further said static device-specific device account number has an  
expiration date of limited duration of validity, and

wherein the generating a limited-use payment information comprises the  
processor generating said limited-use payment information by combining said static  
device-specific device account number, said device account expiration date,

when said issuer payment account method is selected.

23. (original)The electronic device of Claim 20, wherein the memory is accessible to  
the processor, and wherein said memory comprises:

a static device-specific device account information including a device account  
number of limited-use;

and keys, wherein said device-specific device account information originates from a card issuing authority and is for limited-use by the specific electronic device only;

and wherein said static device-specific device account information is valid for a limited duration, and wherein the generating a limited-use payment information comprises the processor generating a one-time limited-use cryptogram number and combining said limited-use static device account information and said one-time use cryptogram number to produce the limited-use payment information.

24. (original)The electronic device of Claim 20 further comprising a cryptographic processor operable to dynamically generate a one-time limited-use cryptogram number by cryptographically combining of at least one information accessible on the electronic device, selected from a set comprising:

a sequence counter;

a device account number;

a device secret;

device keys;

card issuer keys;

a time;

an amount;

an expiration date;

a card security code;

a location;

merchant information;  
NFC recipient information;  
payment reader information;  
an online location;  
transaction information;  
payment information;  
device information;  
user information;  
an email address;  
a user identification entry;  
a hash of transaction information;  
and a hashed record of transactions, and

wherein said cryptogram number is operable to be used in place of at least a portion of a card issuer payment information, in a payment transaction.

### REMARKS

Claims 1-18 and 20-24 are pending in the present application. Claim 15 is amended. Claim 19 is canceled. No new matter is added. Applicants respectfully request reconsideration of the present application in view of the indicated amendments and the following remarks.

The amendments presented herein incorporate indicated allowed material. Thus, Applicants understand all remaining claims to incorporate indicated allowed material, and that such amendments place the present application in condition for allowance.

### Allowable Matter

The Official Action indicates that Claims 1-14 and 20-24 are allowable, and that Claim 19 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicants thank the Examiner for indicating allowable material.

### Amendments

Independent Claim 15 is amended to incorporate the indicated allowable matter of prior dependent Claim 19.

WYAT-0002.USD1C1C1C/ACM/NAO  
Examiner: Lee, S. H.

24

Serial No.: 16/459,150  
Group Art Unit: 2887

## CONCLUSION

Claims 1-18 and 20-24 are pending in the present application. Applicants understand all Claims to be in condition for allowance, and such allowance is earnestly sought.

The Examiner is invited to contact Applicants' undersigned representative if the Examiner believes such action would expedite resolution of the present Application.

Please charge any additional fees or apply any credits to our PTO deposit account number: 504160.

Respectfully submitted,

MURABITO, HAO & BARNES LLP

Date: 5-20-2020

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WYAT-0002.USD1C1C1C/ACM/NAO  
Examiner: Lee, S. H.

25

Serial No.: 16/459,150  
Group Art Unit: 2887

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 39496335                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Mina Oliveri                                                               |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 20-MAY-2020                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 16:11:34                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

| Submitted with Payment |                      | no            |                                          |                  |                  |
|------------------------|----------------------|---------------|------------------------------------------|------------------|------------------|
| <b>File Listing:</b>   |                      |               |                                          |                  |                  |
| Document Number        | Document Description | File Name     | File Size(Bytes)/<br>Message Digest      | Multi Part /.zip | Pages (if appl.) |
| 1                      |                      | WYAT-0002.pdf | 84536                                    | yes              | 25               |
|                        |                      |               | e1fb1ff9a2c67e38f3bcb83f8140ee1c58e138cc |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Multipart Description/PDF files in .zip description   |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------|-----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Document Description                                  | Start | End |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Amendment/Req. Reconsideration-After Non-Final Reject | 1     | 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Claims                                                | 2     | 22  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicant Arguments/Remarks Made in an Amendment      | 23    | 25  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                       |       |     |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |       |     |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       | 84536 |     |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> 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><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> 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><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> 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> |                                                       |       |     |

|                                                                                                                                 |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------|-----------|---------------------------|---------------------|---------------------------------------|--|--|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                               |                                                                                          |                                                                                                                                                                                                                               |                                    | Application or Docket Number<br>16/459,150 |           | Filing Date<br>07/01/2019 |                     | <input type="checkbox"/> To be Mailed |  |  |
| ENTITY: <input type="checkbox"/> LARGE <input checked="" type="checkbox"/> SMALL <input type="checkbox"/> MICRO                 |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
| <b>APPLICATION AS FILED - PART I</b>                                                                                            |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|                                                                                                                                 |                                                                                          | (Column 1)                                                                                                                                                                                                                    | (Column 2)                         |                                            |           |                           |                     |                                       |  |  |
| FOR                                                                                                                             |                                                                                          | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                       | RATE (\$)                                  |           | FEE (\$)                  |                     |                                       |  |  |
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                             |                                                                                          | N/A                                                                                                                                                                                                                           | N/A                                | N/A                                        |           |                           |                     |                                       |  |  |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                            |                                                                                          | N/A                                                                                                                                                                                                                           | N/A                                | N/A                                        |           |                           |                     |                                       |  |  |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                       |                                                                                          | N/A                                                                                                                                                                                                                           | N/A                                | N/A                                        |           |                           |                     |                                       |  |  |
| TOTAL CLAIMS<br>(37 CFR 1.16(j))                                                                                                |                                                                                          | minus 20 =                                                                                                                                                                                                                    | *                                  | x \$50 =                                   |           |                           |                     |                                       |  |  |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                          |                                                                                          | minus 3 =                                                                                                                                                                                                                     | *                                  | x \$230 =                                  |           |                           |                     |                                       |  |  |
| <input type="checkbox"/> 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). |                                    |                                            |           |                           |                     |                                       |  |  |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                                      |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                       |                                                                                          |                                                                                                                                                                                                                               |                                    | TOTAL                                      |           |                           |                     |                                       |  |  |
| <b>APPLICATION AS AMENDED - PART II</b>                                                                                         |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|                                                                                                                                 |                                                                                          | (Column 1)                                                                                                                                                                                                                    | (Column 2)                         | (Column 3)                                 |           |                           |                     |                                       |  |  |
| AMENDMENT                                                                                                                       | 05/20/2020                                                                               | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                              | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA                              | RATE (\$) |                           | ADDITIONAL FEE (\$) |                                       |  |  |
|                                                                                                                                 | Total<br>(37 CFR 1.16(i))                                                                | * 23                                                                                                                                                                                                                          | Minus                              | ** 24                                      | = 0       | x \$50 =                  |                     | 0                                     |  |  |
|                                                                                                                                 | Independent<br>(37 CFR 1.16(h))                                                          | * 3                                                                                                                                                                                                                           | Minus                              | *** 3                                      | = 0       | x \$230 =                 |                     | 0                                     |  |  |
|                                                                                                                                 | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|                                                                                                                                 | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|                                                                                                                                 |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           | TOTAL ADD'L FEE           |                     | 0                                     |  |  |
| AMENDMENT                                                                                                                       |                                                                                          | (Column 1)                                                                                                                                                                                                                    | (Column 2)                         | (Column 3)                                 |           |                           |                     |                                       |  |  |
|                                                                                                                                 |                                                                                          | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                              | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA                              | RATE (\$) |                           | ADDITIONAL FEE (\$) |                                       |  |  |
|                                                                                                                                 | Total<br>(37 CFR 1.16(i))                                                                | *                                                                                                                                                                                                                             | Minus                              | **                                         | =         | x \$0 =                   |                     |                                       |  |  |
|                                                                                                                                 | Independent<br>(37 CFR 1.16(h))                                                          | *                                                                                                                                                                                                                             | Minus                              | ***                                        | =         | x \$0 =                   |                     |                                       |  |  |
|                                                                                                                                 | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                        |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |
|                                                                                                                                 |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           | TOTAL ADD'L FEE           |                     |                                       |  |  |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3.                                           |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           | LIE                       |                     |                                       |  |  |
| ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".                                       |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           | /ANITA JOHNSON/           |                     |                                       |  |  |
| *** 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 number found in the appropriate box in column 1. |                                                                                          |                                                                                                                                                                                                                               |                                    |                                            |           |                           |                     |                                       |  |  |

This collection of information is required by 37 CFR 1.16. 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 12 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.*



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| APPLICATION NO.                                                                                      | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.             | CONFIRMATION NO.            |
|------------------------------------------------------------------------------------------------------|-------------|----------------------|---------------------------------|-----------------------------|
| 16/459,150                                                                                           | 07/01/2019  | David WYATT          | WYAT-0002.USD1C1C1C             | 1554                        |
| 136197                                                                                               | 7590        | 05/08/2020           |                                 |                             |
| David Wyatt c/o Murabito, Hao & Barnes<br>111 North Market Street<br>Suite 700<br>San Jose, CA 95113 |             |                      | EXAMINER<br>LEE, SEUNG H        |                             |
|                                                                                                      |             |                      | ART UNIT<br>2887                | PAPER NUMBER                |
|                                                                                                      |             |                      | NOTIFICATION DATE<br>05/08/2020 | DELIVERY MODE<br>ELECTRONIC |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

misaac@mhbpatents.com  
officeaction@mhbpatents.com  
terimurabito@mhbpatents.com

# Office Action Summary

Application No.

16/459,150

Examiner

SEUNG H LEE

Applicant(s)

WYATT, David

Art Unit

2887

AIA (FITF) Status

No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1) ☐ Responsive to communication(s) filed on \_\_\_\_.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims\*

5) ☒ Claim(s) 1-24 is/are pending in the application.

5a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.

6) ☒ Claim(s) 1-14 and 20-24 is/are allowed.

7) ☒ Claim(s) 15-18 is/are rejected.

8) ☒ Claim(s) 19 is/are objected to.

9) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement

\* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

## Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

## Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

### Certified copies:

a) ☐ All b) ☐ Some\*\* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

3) ☐ Interview Summary (PTO-413)

4) ☐ Other: \_\_\_\_.

Paper No(s)/Mail Date \_\_\_\_.

**DETAILED ACTION**

***Notice of Pre-AIA or AIA Status***

1. The present application is being examined under the pre-AIA first to invent provisions.

***Claim Rejections - 35 USC § 102***

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claim(s) 15-18 are rejected under pre-AIA 35 U.S.C. 102(a) as being anticipated by Brudnicki et al. (US 2013/0159186).

Re claim 15: Brudnicki teaches a method of performing a transaction comprising receiving an input signal at an electronic device, the input signal corresponding to a request for payment of a transaction at the electronic device, via a recipient proximity communication request to an NFC interface of the electronic device (i.e., a consumer opens an application when the consumer is near the POS terminal, fig. 3A)), displaying a summary of selectable payment account options at a touch-screen

display user-interface of the electronic device (9A), receiving, from a valid device user, a payment selection and approval authorization input on the electronic device (i.e., transmitting the passcode to the issuing engine (2010), paragraph 0048), generating a limited-use number at the electronic device (i.e., receiving temporary payment card information, fig. 3A), and using the limited-use number in place of at least a portion of selected account issuer payment information (i.e., the consumer purchasing product/service with the temporary payment card information), and transmitting the limited-use number from the electronic device to a transaction recipient via the NFC interface (paragraph 0038) (see figs. 1A-10; paragraphs 0038-0075).

Re claim 16: The method further comprising visually conveying on the touch-screen display user-interface, information regarding the transaction including at an indication requesting an authorization input (Figs. 5-6A, 9A; paragraph 0027).

Re claim 17: The method further comprising visually presenting on the touch-screen display user-interface, a plurality of payment options, including at least one of a set of payment method information for each payment option, the set comprising a card image, a payment issuer logo (9A, paragraph 0075)

Re claim 18: The method further comprising receiving a priming operation at the electronic device for priming the electronic device for imminent payment, wherein the priming operation causes the electronic device to successfully identify the user through completing at least one user-validation, of a set of user validations comprising a touching of the device by an identified user, a user entry of a valid passcode (Fig. 5).

***Allowable Subject Matter***

5. Claims 1-14 and 20-24 are allowed.
6. Claim 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
7. The following is a statement of reasons for the indication of allowable subject matter:

None of prior art teaches a method of performing a transaction comprising receiving an input at an electronic device, wherein the input corresponds to a priming operation of the electronic device by an identified user and wherein the electronic device comprises a near field communications (NFC) interface coupled to the processor, receiving a request for a transaction payment at the electronic device via the NFC interface, generating, by the processor, a limited-use payment information, and using the limited-use payment information in place of the card issuer supplied payment information, transmitting the limited-use payment information from the electronic device to an NFC recipient of the transaction via the NFC interface, and visually conveying a status of the transaction via a user-interface displayed on the touch-screen display as set forth in the claims.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zhou et al. (US 9646300) and Kurian (US 9292849) teach a method of using mobile devices conducting transactions.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEUNG H LEE whose telephone number is (571)272-2401. The examiner can normally be reached on 7-4:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SEUNG H LEE/  
Primary Examiner, Art Unit 2887

|                                   |                                       |  |                                                            |             |
|-----------------------------------|---------------------------------------|--|------------------------------------------------------------|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>16/459,150 |  | Applicant(s)/Patent Under<br>Reexamination<br>WYATT, David |             |
|                                   | Examiner<br>SEUNG H LEE               |  | Art Unit<br>2887                                           | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name               | CPC Classification | US Classification |
|---|---|--------------------------------------------------|-----------------|--------------------|--------------------|-------------------|
| * | A | US-9646300-B1                                    | 05-2017         | Zhou; Tiger T G    | G06Q20/3224        | 1/1               |
| * | B | US-9292849-B2                                    | 03-2016         | Kurian; Manu Jacob | G06Q20/385         | 1/1               |
| * | C | US-20130159186-A1                                | 06-2013         | Brudnicki; David   | H04W12/06          | 705/44            |
|   | D |                                                  |                 |                    |                    |                   |
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**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | CPC Classification |
|---|---|--------------------------------------------------|-----------------|---------|------|--------------------|
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**NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|-------------------------------------------------------------------------------------------|
|   | U |                                                                                           |
|   | V |                                                                                           |
|   | W |                                                                                           |
|   | X |                                                                                           |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office  
PTO-892 (Rev. 01-2001)

**Notice of References Cited**

Part of Paper No. 20200425

|                                                                                                                 |                                              |                                                                |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b><i>Search Notes</i></b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                 | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

| CPC - Searched*                                                                                                                                                                                                                                            |            |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Symbol                                                                                                                                                                                                                                                     | Date       | Examiner |
| G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or<br>G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or<br>G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or<br>G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or<br>G07F19/00 | 05/05/2020 | sl       |

| CPC Combination Sets - Searched* |      |          |
|----------------------------------|------|----------|
| Symbol                           | Date | Examiner |
|                                  |      |          |

| US Classification - Searched* |          |      |          |
|-------------------------------|----------|------|----------|
| Class                         | Subclass | Date | Examiner |
|                               |          |      |          |

\* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| Search Notes                                   |            |          |
|------------------------------------------------|------------|----------|
| Search Notes                                   | Date       | Examiner |
| EAST                                           | 05/05/2020 | sl       |
| 14/680979, 14/981757, 15/701261 (parent cases) | 05/05/2020 | sl       |

| Interference Search |                       |      |          |
|---------------------|-----------------------|------|----------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
|                     |                       |      |          |

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|                                                                                                                    |                                              |                                                                |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>16/459,150 | <b>Applicant(s)/Patent Under Reexamination</b><br>WYATT, David |
|                                                                                                                    | <b>Examiner</b><br>SEUNG H LEE               | <b>Art Unit</b><br>2887                                        |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

| CLAIMS                                                                                                                                                                            |          |            |      |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------|--|--|--|--|--|--|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |          |            |      |  |  |  |  |  |  |
| CLAIM                                                                                                                                                                             |          |            | DATE |  |  |  |  |  |  |
| Final                                                                                                                                                                             | Original | 05/05/2020 |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 1        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 2        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 3        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 4        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 5        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 6        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 7        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 8        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 9        | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 10       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 11       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 12       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 13       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 14       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 15       | ✓          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 16       | ✓          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 17       | ✓          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 18       | ✓          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 19       | O          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 20       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 21       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 22       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 23       | =          |      |  |  |  |  |  |  |
|                                                                                                                                                                                   | 24       | =          |      |  |  |  |  |  |  |

## EAST Search History

### EAST Search History (Prior Art)

| Ref # | Hits  | Search Query                                                                                                                                                                                                                                          | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|---------|------------------|
| L4    | 30909 | (G06Q20/341 or G06Q20/4012 or G06Q20/3827 or G06Q20/346 or G06Q20/065 or G06Q20/409 or G06Q20/352 or G06Q20/24 or G06K19/07749 or G06K19/0716 or G06K19/06206 or G07F7/0873 or G06Q20/385 or G06Q20/347 or G06Q20/223 or G06Q20/06 or G07F19/00).cpc. | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:24 |
| L5    | 129   | 4 and (nfc same select\$4 same payment same limit\$4)                                                                                                                                                                                                 | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:25 |
| L6    | 43    | 4 and (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                                 | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:26 |
| L8    | 6     | ((("10339520") or ("9760884") or ("9224083") or ("9022286"))).PN.                                                                                                                                                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2020/05/05 08:33 |
| L9    | 0     | L8 and (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                                | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:33 |
| L10   | 109   | (nfc same select\$4 same payment same limit\$4 same display\$4)                                                                                                                                                                                       | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:33 |
| L12   | 94    | 10 same (mobile portable)                                                                                                                                                                                                                             | US-PGPUB; USPAT; EPO; JPO        | OR               | OFF     | 2020/05/05 08:34 |
| L13   | 4186  | dynamic same credit same card                                                                                                                                                                                                                         | US-PGPUB;                        | OR               | OFF     | 2020/05/05 08:35 |

|     |       |                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |    |     |                     |
|-----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----|-----|---------------------|
|     |       |                                                                                                                                                                                                                                                                                                                                                                                                       | USPAT;<br>EPO; JPO                  |    |     |                     |
| L14 | 7     | 10 and 13                                                                                                                                                                                                                                                                                                                                                                                             | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/05<br>08:35 |
| L15 | 23    | ("20020073025"   "20030101137"  <br>"20070278290"   "20100057553"  <br>"20100082487"   "20110137748"  <br>"20110302089"   "20120006891"  <br>"20140052607"   "20140129422"  <br>"20140143037"   "20140195324"  <br>"20140249941"   "20140279474"  <br>"20150058145"   "20160027005"  <br>"20160086161"   "20160162857"  <br>"20160162887"   "20160335619"   "6633223"<br>  "9292849"   "9489671").PN. | US-<br>PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>08:38 |
| L16 | 6     | ("20040168067"   "20090276347"  <br>"20110016047"   "20120173311"  <br>"20130159186"   "6163771").PN.                                                                                                                                                                                                                                                                                                 | US-<br>PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>08:39 |
| L17 | 4     | (("10339520") or ("9760884") or ("9224083")<br>or ("9022286")).PN.                                                                                                                                                                                                                                                                                                                                    | US-<br>PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2020/05/05<br>09:39 |
| L18 | 1     | 17 and (respons\$4 same nfc same generat\$4)                                                                                                                                                                                                                                                                                                                                                          | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/05<br>09:40 |
| S1  | 30843 | (G06Q20/341 or G06Q20/4012 or<br>G06Q20/3827 or G06Q20/346 or G06Q20/065<br>or G06Q20/409 or G06Q20/352 or G06Q20/24<br>or G06K19/07749 or G06K19/0716 or<br>G06K19/06206 or G07F7/0873 or G06Q20/385<br>or G06Q20/347 or G06Q20/223 or G06Q20/06<br>or G07F19/00).cpc.                                                                                                                               | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/04/27<br>12:21 |
| S2  | 1     | nfc same transaction same payment same logo<br>same limited same issuer                                                                                                                                                                                                                                                                                                                               | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/04/27<br>12:22 |

|     |     |                                                                                                                                                                                                                                                 |                                 |    |     |                     |
|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----|-----|---------------------|
| S4  | 311 | monitor\$4 same master same node same wireless same sensor                                                                                                                                                                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>12:55 |
| S5  | 18  | S4.clm.                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>12:55 |
| S6  | 107 | S4 same (slave peripheral)                                                                                                                                                                                                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>12:56 |
| S7  | 7   | S6.clm.                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>12:56 |
| S8  | 17  | ("20030018927"   "9860688"   "20180165568"   "20150154531"   "9189226"   "20100082870"   "20170039666"   "20180046964"   "9824329"   "20080239282"   "9182231"   "20130107770"   "20070049291"   "6614392"   "20100299401"   "20160233927").PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>12:58 |
| S9  | 9   | S6 same (environment\$4 temperature)                                                                                                                                                                                                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>13:00 |
| S10 | 9   | ("20130250357"   "20150324745"   "7177054"   "8292173"   "7048194"   "7299990"   "7540603"   "8072620"   "20100096181").PN.                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/01<br>13:04 |
| S11 | 39  | ("2015/0324745").URPN.                                                                                                                                                                                                                          | USPAT                           | OR | OFF | 2020/05/02<br>08:57 |
| S12 | 35  | label same wireless same master same (slave peripheral)                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2020/05/02<br>09:00 |
| S13 | 39  | "517508"                                                                                                                                                                                                                                        | US-PGPUB;                       | OR | OFF | 2020/05/02<br>09:19 |

|     |    |                                                                      |                                               |    |     |                     |
|-----|----|----------------------------------------------------------------------|-----------------------------------------------|----|-----|---------------------|
|     |    |                                                                      | USPAT;<br>EPO; JPO                            |    |     |                     |
| S14 | 6  | ((("10339520") or ("9760884") or ("9224083")<br>or ("9022286"))).PN. | US-<br>PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2020/05/04<br>05:07 |
| S15 | 55 | nfc same transaction same payment same<br>limited same issuer        | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/04<br>05:07 |
| S16 | 5  | S15 same proximity                                                   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2020/05/04<br>05:08 |

**5/5/2020 9:41:28 AM**

**C:\Users\slee5\Documents\EAST\Workspaces\16-459150.wsp**



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UNITED STATES DEPARTMENT OF COMMERCE  
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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/459,150         | 07/01/2019            | David WYATT           | WYAT-0002.USD1C1C1C    |

**CONFIRMATION NO. 1554**

136197

David Wyatt c/o Murabito, Hao & Barnes  
111 North Market Street  
Suite 700  
San Jose, CA 95113

## PUBLICATION NOTICE



**Title:**SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD

**Publication No.**US-2019-0325428-A1

**Publication Date:**10/24/2019

## 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 publicly available Searchable Databases via the Internet at [www.uspto.gov](http://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 Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, 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](http://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 <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/459,150         | 07/01/2019            | David WYATT           | WYAT-0002.USD1C1C1C    |

**CONFIRMATION NO. 1554**

**POA ACCEPTANCE LETTER**

136197

David Wyatt c/o Murabito, Hao & Barnes

111 North Market Street

Suite 700

San Jose, CA 95113



Date Mailed: 08/20/2019

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 08/15/2019.

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.

/dtdinh/

## 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/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

|                        |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| Application Number     | 16/459,150                                                                                     |
| Filing Date            | 7/01/2019                                                                                      |
| First Named Inventor   | David WYATT                                                                                    |
| Title                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| Art Unit               | 2887                                                                                           |
| Examiner Name          | LEE, SEUNG H                                                                                   |
| Attorney Docket Number | WYAT-0002.USD1C1C1C                                                                            |

### SIGNATURE of Applicant or Patent Practitioner

|                                                                                                                                                                                        |                       |                     |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|-----------|
| Signature                                                                                                                                                                              | /Anthony C. Murabito/ | Date (Optional)     | 8/15/2019 |
| Name                                                                                                                                                                                   | Anthony C. Murabito   | Registration Number | 35295     |
| Title (if Applicant is a juristic entity)                                                                                                                                              |                       |                     |           |
| Applicant Name (if Applicant is a juristic entity)                                                                                                                                     |                       |                     |           |
| <b>NOTE:</b> 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. |                       |                     |           |
| <input type="checkbox"/> *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 1450, Alexandria, VA 22313-1450.**

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

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B (07-13)

Approved for use through 11/30/2014. OMB 0851-0051  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## 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 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:

136197

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:



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Email

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

Virtual Electric Inc.



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

Title

**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 2 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 1450, Alexandria, VA 22313-1450.

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

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 36882076                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | David WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | James P. Hao/Steve Johnson                                                                     |
| <b>Filer Authorized By:</b>                 | James P. Hao                                                                                   |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 15-AUG-2019                                                                                    |
| <b>Filing Date:</b>                         | 01-JUL-2019                                                                                    |
| <b>Time Stamp:</b>                          | 11:21:43                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

### Payment information:

|                        |                      |                                      |                                          |                  |                  |
|------------------------|----------------------|--------------------------------------|------------------------------------------|------------------|------------------|
| Submitted with Payment |                      | no                                   |                                          |                  |                  |
| File Listing:          |                      |                                      |                                          |                  |                  |
| Document Number        | Document Description | File Name                            | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
| 1                      | Power of Attorney    | WYAT-0002USD1C1C1C_POA_8-15-2019.pdf | 2367261                                  | no               | 2                |
|                        |                      |                                      | 10e86a5c90a2ce9d4b619edba6f0821ad71801ba |                  |                  |
| Warnings:              |                      |                                      |                                          |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2367261 |
| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>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.</b></p> |         |



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| APPLICATION<br>NUMBER | FILING or<br>371(c) DATE | GRP ART<br>UNIT | FIL FEE REC'D | ATTY. DOCKET NO.    | TOT CLAIMS | IND CLAIMS |
|-----------------------|--------------------------|-----------------|---------------|---------------------|------------|------------|
| 16/459,150            | 07/01/2019               | 2876            | 1065          | WYAT-0002.USDIC1C1C | 24         | 3          |

CONFIRMATION NO. 1554

## FILING RECEIPT



0000000109707538

136197

David Wyatt c/o Murabito, Hao & Barnes  
Two North Market Street  
Third Floor  
San Jose, CA 95113

Date Mailed: 07/18/2019

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

### Inventor(s)

David WYATT, San Jose, CA;

### Applicant(s)

Virtual Electric Inc., San Jose, CA;

**Power of Attorney:** None

### Domestic Priority data as claimed by applicant

This application is a CON of 15/701,261 09/11/2017 PAT 10339520 \*  
which is a CON of 14/981,757 12/28/2015 PAT 9760884  
which is a CON of 14/680,979 04/07/2015 PAT 9224083  
which is a DIV of 14/217,261 03/17/2014 PAT 9022286  
which claims benefit of 61/794,891 03/15/2013

(\*)Data provided by applicant is not consistent with PTO records.

**Foreign Applications** for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

*Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.*

**Permission to Access Application via Priority Document Exchange:** Yes

**Permission to Access Search Results:** Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

**If Required, Foreign Filing License Granted:** 07/17/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/459,150**

**Projected Publication Date:** 10/24/2019

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING  
THEREOF, SYSTEM AND METHOD

**Preliminary Class**

235

**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

page 2 of 4

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).

**LICENSE FOR FOREIGN FILING UNDER**  
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**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**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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technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b>                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                               |                                  |          |                                    |               | Application or Docket Number<br>16/459,150 |                    |                         |                    |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|------------------------------------|---------------|--------------------------------------------|--------------------|-------------------------|--------------------|--------------------|
| Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| <b>APPLICATION AS FILED - PART I</b>                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | SMALL ENTITY                       |               | OTHER THAN SMALL ENTITY                    |                    |                         |                    |                    |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                        | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                     | RATE(\$) | FEE(\$)                            |               | RATE(\$)                                   | FEE(\$)            |                         |                    |                    |
| BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                           | N/A                              | N/A      | 75                                 |               | N/A                                        |                    |                         |                    |                    |
| SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                           | N/A                              | N/A      | 330                                |               | N/A                                        |                    |                         |                    |                    |
| EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                                                                                           | N/A                              | N/A      | 380                                |               | N/A                                        |                    |                         |                    |                    |
| TOTAL CLAIMS<br>(37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                           | 24                                                                                                                                                                                                                            | minus 20 =<br>*                  | 4        | x 50 =                             | 200           |                                            |                    |                         |                    |                    |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                     | 3                                                                                                                                                                                                                             | minus 3 =<br>*                   |          | x 230 =                            | 0.00          |                                            |                    |                         |                    |                    |
| APPLICATION SIZE FEE<br>(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          |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  |          | TOTAL                              | 985           | TOTAL                                      |                    |                         |                    |                    |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| <b>APPLICATION AS AMENDED - PART II</b>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | (Column 3)                         |               | SMALL ENTITY                               |                    | OTHER THAN SMALL ENTITY |                    |                    |
| AMENDMENT A                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(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<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | (Column 3)                         |               | SMALL ENTITY                               |                    | OTHER THAN SMALL ENTITY |                    |                    |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(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<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3.<br>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".<br>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".<br>The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1. |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |

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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                        |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                | Application Number     |                     |
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |
| <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.</p> <p>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             |                |             |                      |    | <a href="#">Remove</a> |  |
| Legal Name                                                                                                                           |               |                |             |                      |    |                        |  |
| Prefix                                                                                                                               | Given Name    | Middle Name    | Family Name | Suffix               |    |                        |  |
|                                                                                                                                      | David         |                | WYATT       |                      |    |                        |  |
| Residence Information (Select One) • US Residency Non US Residency Active US Military Service                                        |               |                |             |                      |    |                        |  |
| City                                                                                                                                 | San Jose      | State/Province | CA          | Country of Residence | US |                        |  |
| Mailing Address of Inventor:                                                                                                         |               |                |             |                      |    |                        |  |
| Address 1                                                                                                                            | 1314 Vanna Ct |                |             |                      |    |                        |  |
| Address 2                                                                                                                            |               |                |             |                      |    |                        |  |
| City                                                                                                                                 | San Jose      | State/Province | CA          |                      |    |                        |  |
| Postal Code                                                                                                                          | 95131         | Country        | US          |                      |    |                        |  |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. |               |                |             |                      |    |                        |  |
| <a href="#">Add</a>                                                                                                                  |               |                |             |                      |    |                        |  |

## 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                                                                                               | 136197                      |                           |                              |
| Email Address                                                                                                 | officeaction@mhbpatents.com | <a href="#">Add Email</a> | <a href="#">Remove Email</a> |

## Application Information:

|                                         |                                                                                                |                                           |                                     |
|-----------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------|
| Title of the Invention                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                                           |                                     |
| Attorney Docket Number                  | WYAT-0002.USD1C1C1C                                                                            | Small Entity Status Claimed               | <input checked="" type="checkbox"/> |
| Application Type                        | Nonprovisional                                                                                 |                                           |                                     |
| Subject Matter                          | Utility                                                                                        |                                           |                                     |
| Total Number of Drawing Sheets (if any) | 7                                                                                              | Suggested Figure for Publication (if any) | 7                                   |

|                                           |                                                                                                |                        |                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

**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    | 136197                                           |                                              |                                                         |

**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 | Pending         | <a href="#">Remove</a>   |                                    |
| Application Number       | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |
|                          | Continuation of | 15701261                 | 2016-08-29                         |

|                                           |  |                                                                                                |  |                     |  |
|-------------------------------------------|--|------------------------------------------------------------------------------------------------|--|---------------------|--|
| <b>Application Data Sheet 37 CFR 1.76</b> |  | Attorney Docket Number                                                                         |  | WYAT-0002.USD1C1C1C |  |
|                                           |  | Application Number                                                                             |  |                     |  |
| Title of Invention                        |  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |  |                     |  |

|                                                                                                                |                               |                          |                                    |               |                         |
|----------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------------------------|---------------|-------------------------|
| Prior Application Status                                                                                       |                               | Patented                 |                                    | Remove        |                         |
| Application Number                                                                                             | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number | Issue Date (YYYY-MM-DD) |
| 15701261                                                                                                       | Continuation of               | 14981757                 | 2015-12-28                         | 9760884       | 2017-09-12              |
| Prior Application Status                                                                                       |                               | Patented                 |                                    | Remove        |                         |
| Application Number                                                                                             | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number | Issue Date (YYYY-MM-DD) |
| 14981757                                                                                                       | Continuation of               | 14680979                 | 2015-04-07                         | 9224083       | 2015-12-29              |
| Prior Application Status                                                                                       |                               | Patented                 |                                    | Remove        |                         |
| Application Number                                                                                             | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number | Issue Date (YYYY-MM-DD) |
| 14680979                                                                                                       | Division of                   | 14217261                 | 2014-03-17                         | 9022286       | 2015-05-05              |
| Prior Application Status                                                                                       |                               | Expired                  |                                    | Remove        |                         |
| Application Number                                                                                             | Continuity Type               | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |               |                         |
| 14217261                                                                                                       | Claims benefit of provisional | 61794891                 | 2013-03-15                         |               |                         |
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## 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)<sup>i</sup> 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).

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|                                                                                                 |                      |                          | Remove                                   |
| Application Number                                                                              | Country <sup>i</sup> | Filing Date (YYYY-MM-DD) | Access Code <sup>i</sup> (if applicable) |
|                                                                                                 |                      |                          |                                          |
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## Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

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|                                           |                                                                                                |                        |                     |
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| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> 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.<br>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. |
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| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

## 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.

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☐ 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.

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|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

## 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                                  |                |
| <b>Applicant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                        | <input type="button" value="Remove"/>            |                |
| <p>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.</p> |                                          |                                                  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          | <input type="button" value="Clear"/>             |                |
| <input type="radio"/> Assignee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Legal Representative under 35 U.S.C. 117 |                                                  | Joint Inventor |
| Person to whom the inventor is obligated to assign.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          | Person who shows sufficient proprietary interest |                |
| If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                                  |                |
| <div> <div></div> <div></div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |                                                  |                |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Virtual Electric Inc.                    |                                                  |                |
| <b>Mailing Address Information For Applicant:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                                  |                |
| Address 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1314 Vanna Ct                            |                                                  |                |
| Address 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                                  |                |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | San Jose                                 | State/Province                                   | CA             |
| Country                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US                                       | Postal Code                                      | 95131          |
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## Assignee Information including Non-Applicant Assignee Information:

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| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
|                                           |                                                                                                | Application Number     |                     |
| Title of Invention                        | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |                        |                     |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Assignee</b>   1                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                      |                      |                      |
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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.

|                                                                                                         |                       |           |                   |                     |
|---------------------------------------------------------------------------------------------------------|-----------------------|-----------|-------------------|---------------------|
| <b>Signature</b>                                                                                        | /Anthony C. Murabito/ |           | Date (YYYY-MM-DD) | 2019-07-01          |
| First Name                                                                                              | Anthony               | Last Name | Murabito          | Registration Number |
|                                                                                                         |                       |           |                   | 35295               |
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| <b>Application Data Sheet 37 CFR 1.76</b> |                                                                                                | Attorney Docket Number | WYAT-0002.USD1C1C1C |
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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.**

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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:

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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.
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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.

SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION  
PROCESSING THEREOF, SYSTEM AND METHOD

**RELATED APPLICATIONS**

**[0001]** This is a Continuation application of co-pending, commonly-owned U.S. Patent Application Serial No. 15/701,261, now U.S. Patent 10,339,520, filed 09-11-2017, which in turn was a Continuation application U.S. Patent Application Serial No. 14/981,757, filed 12-28-2015, now U.S. Patent 9,760,884, which in turn was a continuation of U.S. Patent Application Serial No. 14/680,979, filed 04-07-2015, now U.S. Patent 9,224,083, which in turn was a Division of U.S. Patent Application Serial No. 14/217,261, filed 03-17-2014, now U.S. Patent 9,022,286, which in turn claims priority from Provisional Application 61/794,891, filed 03-15-2013, each of which are hereby incorporated herein in their entirety by reference.

**FIELD OF THE INVENTION**

**[0002]** Embodiments according to the present disclosure generally relate to multi-function electronic devices or smart cards and, more particularly, to systems and methods of smart tokenizing payment cards and devices and transaction processing thereof.

## **BACKGROUND OF THE INVENTION**

**[0003]** There are several different types of credit cards available in the marketplace at present. A first type of credit card is a conventional, standard piece of plastic with a magnetic strip, which is readily available and in wide commercial use. The advantage of this first type of credit card is that a large portion of the infrastructure for credit card transactions is built around this type of card, and consequently such a card works in a wide array of vendors' credit card machines, automated teller machines (ATMs), and other devices that support the present credit card and banking infrastructure.

**[0004]** Another type of credit card device employs the use of a smart integrated circuit chip. These types of credit cards have a built in microprocessor with cryptographic capabilities. These microprocessors operate in a similar manner to a cell phone having a chip comprising a cryptographic processor. Such a smart card device requires contact with a reader in order to be read and to perform a transaction. The reader provides the manner in which a facility interacts with the built-in processor on the card, e.g., for purposes of performing verification on the authenticity of the card or for making a direct deposit on the card. These credit card devices also comprise a magnetic strip such that they are compatible with standard plastic credit card readers in wide use.

**[0005]** A different type of credit card device in circulation employs radio frequency identification ("RFID"). These cards essentially have a low-power RF antenna built into

the card, and when the cardholder passes the antenna in front of a reader comprising an RF field, enough power is generated to enable the processor to interact wirelessly with the receiving device.

**[0006]** A concern with each of these types of credit cards presently available in the marketplace is that they can all be, in various ways, susceptible to theft and/or compromise. Therefore, these types of credit cards have security limitations. Further, cards employing smart integrated circuit chips and RF technology are not in wide use at present because they are incompatible with existing credit card infrastructure, which still predominantly supports conventional plastic credit cards.

## **SUMMARY OF THE INVENTION**

**[0007]** This Summary is provided to introduce a selection of concepts in a simplified form that are further described below in the Detailed Description. This Summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used to limit the scope of the claimed subject matter.

**[0008]** An embodiment includes a credit card device capable of generating a programmed magnetic field of alternating polarity based on a speed of a card swipe, and methods for constructing the device for the purpose of emulating a standard credit card. An apparatus is described to allow said device to emulate behavior of a credit card when used in electronic credit card readers. Additionally methods are described to allow user control of said device for the purpose of authorizing or controlling use of said device in the application of credit, debit and cash transactions, including cryptocurrency and card-to-card transactions. Methods are also described for generating a limited-duration credit card number when performing a transaction for the purpose of creating a limited-use credit card number, which is limited in scope of use to a predetermined number of authorized transactions. Furthermore said device may interact with other similar devices in proximity for the purpose of funds or credit/debit transfers.

**[0009]** More specifically, an aspect of the present disclosure provides an apparatus comprising: a thin card shaped sized body; a memory operative to store a plurality of identification data; a processor coupled to the memory; a user interface for selecting a

WYAT-0002.USD1C1C1C 4

select identification data of said plurality of identification data; a magnetic card reader detection unit for determining if the body is adjacent to a standard magnetic card reader; and an inductor assembly coupled to the processor and integrated into the body, the inductor assembly under processor control for generating a magnetic field of alternating polarity responsive to the body being detected as adjacent to a standard magnetic card reader, the magnetic field generated in a region substantially encompassing the standard magnetic card reader, wherein the magnetic field encodes said select identification data, and wherein the magnetic field is operable to be read by a magnetic read head of the standard magnetic card reader.

**[0010]** According to another aspect of the present disclosure, a credit card device comprises: a near-field communication (NFC) unit; a touch sensor array; a display; a motion rate detection array; a memory, storing a user data and a currency amount; and a processor operatively coupled to the NFC unit, the touch sensor array, the display, the motion rate detection array, and the memory; and wherein the processor initiates a card-to-card transaction between two credit card devices by a detected proximity of a first credit card device and a second credit card device and an input of information by a first user via said touch sensor array, and wherein the card-to-card transaction comprises an exchange of stored currency and said user data between the first credit card device and the second credit card device via the NFC unit.

**[0011]** According to yet another aspect of the present disclosure, a method of performing a transaction comprises: receiving an input signal at a credit card device from a user enabling operation of a near-field communication (NFC) unit of the credit

WYAT-0002.USD1C1C1C 5

card device; receiving an indication of an amount of currency for a transaction;  
generating at said credit card device a limited-duration credit card number; and  
transmitting said limited-duration credit card number from said credit card device to a  
recipient of the transaction.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

**[0012]** Embodiments of the present disclosure are illustrated by way of example, and not by way of limitation, in the figures of the accompanying drawings and in which like reference numerals refer to similar elements.

**[0013]** Figure 1 is an illustration depicting an exemplary interaction between a multi-function electronic device and a standard magnetic card reader, according to an embodiment of the present disclosure.

**[0014]** Figures 2A-2B are block diagrams illustrating data flow between the magnetic coils on the multi-function electronic device and the microprocessor on the multi-function electronic device according to an embodiment of the present disclosure.

**[0015]** Figure 2C depicts an exemplary process of selecting an account from a plurality of stored accounts according to an embodiment of the present disclosure.

**[0016]** Figure 3 is a flowchart illustrating an exemplary process of generating a magnetic field with an alternating polarity according to an embodiment of the present disclosure.

**[0017]** Figures 4A-4B illustrate a user interacting with a touch sensor of the multi-function electronic device, according to an embodiment of the present disclosure.

**[0018]** Figure 5 is an illustration of a multi-function electronic device connected with a computing system and operating according to an embodiment of the present disclosure.

**[0019]** Figure 6 is an illustration of two multi-function electronic devices performing a transaction according to an embodiment of the present disclosure.

**[0020]** Figure 7 depicts an exemplary process according to an embodiment of the present disclosure.

## **DETAILED DESCRIPTION OF THE INVENTION**

**[0021]** Reference will now be made in detail to the various embodiments of the present disclosure, examples of which are illustrated in the accompanying drawings. While described in conjunction with these embodiments, it will be understood that they are not intended to limit the disclosure to these embodiments. On the contrary, the disclosure is intended to cover alternatives, modifications and equivalents, which may be included within the spirit and scope of the disclosure as defined by the appended claims. Furthermore, in the following detailed description of the present disclosure, numerous specific details are set forth in order to provide a thorough understanding of the present disclosure. However, it will be understood that the present disclosure may be practiced without these specific details. In other instances, well-known methods, procedures, components, and circuits have not been described in detail so as not to unnecessarily obscure aspects of the present disclosure.

**[0022]** Some portions of the detailed descriptions which follow are presented in terms of procedures, steps, logic blocks, processing, and other symbolic representations of operations on data bits that can be performed on computer memory. These descriptions and representations are the means used by those skilled in the data processing arts to most effectively convey the substance of their work to others skilled in the art. A procedure, computer generated step, logic block, process, etc., is here, and generally, conceived to be a self-consistent sequence of steps or instructions leading to a desired result. The steps are those requiring physical manipulations of physical

quantities. Usually, though not necessarily, these quantities take the form of electrical or magnetic signals capable of being stored, transferred, combined, compared, and otherwise manipulated in a computer system. It has proven convenient at times, principally for reasons of common usage, to refer to these signals as bits, values, elements, symbols, characters, terms, numbers, or the like.

**[0023]** It should be borne in mind, however, that all of these and similar terms are to be associated with the appropriate physical quantities and are merely convenient labels applied to these quantities. Unless specifically stated otherwise as apparent from the following discussions, it is appreciated that throughout the present claimed subject matter, discussions utilizing terms such as “storing,” “creating,” “protecting,” “receiving,” “encrypting,” “decrypting,” “destroying,” or the like, refer to the action and processes of a computer system or integrated circuit, or similar electronic computing device, including an embedded system, that manipulates and transforms data represented as physical (electronic) quantities within the computer system’s registers and memories into other data similarly represented as physical quantities within the computer system memories or registers or other such information storage, transmission or display devices.

#### ENCODING VIA AN ALTERNATING POLARITY OF A MAGNETIC FIELD

**[0024]** In one embodiment of the present disclosure, a smart credit card device comprises a dynamic magnetic region (strip) incorporating a main inductor assembly from which programmed magnetic field data symbols are dynamically generated. In one embodiment the inductor assembly may be a planar coil formed within the material that embodies the credit card. An advantage of using a planar coil is that it can dynamically

WYAT-0002.USD1C1C1C 10

produce a magnetic field in such a manner as to emulate the interaction between a traditional magnetic strip and a conventional credit card reader. As the magnetic strip of a conventional credit card is passed through a magnetic reader head, stripes of alternating magnetic polarity embedded in the strip induce a magnetic field of alternating polarity at the reader head. The pattern formed by the alternating polarity of the magnetic field encodes information, which when transformed by a transducer to a current signal in the magnetic reader head, provides user information for a transaction.

**[0025]** Embodiments of the present disclosure provide a credit card device able to generate a programmed magnetic field, wherein data is encoded and represented by an alternating polarity of the generated magnetic field. In a similar manner to a conventional plastic credit card, the magnetic field produced by the planar coil is able to be read by a pickup (or "transducer") and to thereby transmit information to the magnetic card reader. FIG. 1 illustrates a credit card transaction 100 performed between a credit card device 101 and a conventional magnetic reader 150. The credit card device 101 generates a magnetic field of alternating polarity 120 to be read by the conventional magnetic card reader 150, according to an embodiment of the present disclosure. The credit card device 101 is moved at a rate 130 relative to a magnetic reader head 155 of conventional magnetic card reader 150. The magnetic field 120 extends with sufficient distance and intensity from credit card 101 so as to be read by magnetic head reader 155. The magnetic head reader 155 responds to the magnetic field 120 by producing a current in the conventional fashion, which is then interpreted as encoded information by the magnetic reader 150. Therefore the magnetic field of

alternating polarity 120 produced by the credit card device 101 has a substantially identical encoding effect as a traditional magnetic strip.

**[0026]** A characteristic of encoding information in a conventional magnetic card strip is that binary information is encoded by the pattern of alternating magnetic polarity formed by ferromagnetic stripes embedded on the magnetic strip. As the conventional magnetic card strip has a standardized format, the encoding of information is provided at a specified data density (bits per inch), according to which conventional magnetic readers are designed for interpretation of encoded data. In order to most ably emulate a conventional credit card interaction with a conventional magnetic reader the credit card device 101 of the present disclosure is provided with a means of determining a substantially optimal rate for alternating the polarity of the generated magnetic field 120 in order to produce data at a rate which is able to be readily received and correctly interpreted by the conventional magnetic reader 150. Embodiments of the present disclosure provide several means of determining the relative movement rate 130 between the credit card device 101 and the magnetic reader head 155. These features, as well as other characteristics of the credit card device of the present disclosure, can be better appreciated by a description of the internal components and functions of credit card device 101.

**[0027]** FIGS. 2A and 2B depict exemplary embodiments of the smart credit card device, in a block diagram view. The components of the block diagram are illustrated according to functional connections, and their locations should not be construed as being limited to the respective locations as depicted in FIGS. 2A-2B. In FIG. 2A, credit card

WYAT-0002.USD1C1C1C 12

device 201a is shown in a block diagram view. Credit card device 201a comprises a processor 205 and a memory unit 207, the processor 205 operatively coupled to the components of credit card device 201a. The memory 207 comprises a plurality of accounts 209, which may be credit card accounts, banking accounts, merchant accounts, online accounts, cryptocurrency accounts, and combinations thereof. A motion detection module 210 is coupled to the processor unit 205 and to a set of motion detection units, which comprise a rate detection assembly 225, an optical sensor array 230, and a set of accelerometers 235. The magnetic field is generated via a planar coil 220, which is controlled by the processor unit 205 via a coil interface 215. The rate at which the magnetic field changes polarity to encode the user data depends on the rate of relative movement detected by the rate detector. The credit card device 201a further comprises a real-time clock 240, a touch-sensor array 245, and a display 250, each operatively coupled to the processor unit 205. A user input may be made via the touch sensor array 245, which may comprise a touch screen panel, a keypad, or a combination thereof. The display 250 is able to display an alphanumeric sequence, as well as graphical icons (such as a logo for a bank, or other images). Further, an optional backup power source 255 is depicted.

**[0028]** In one embodiment, the processor unit 205 is connected to the planar coil 220 and the motion detection units, via the motion detection module 210. The processor unit 205 is responsible for determining the appropriate rate with which to output data from the planar coil 220, wherein output data is encoded using alternating polarity of a generated magnetic field. The rate of the alternating polarity of the magnetic field is

generated in accordance with the detected movement speed with which the card is swiped through the reader, in order for the reader to receive the encoded data at the appropriate rate. Magnetic card readers, which are designed to read conventional credit cards, are constructed to read data at specified input rates that correspond with the data density present in conventional magnetic card strips. The magnetic data symbols generated by the planar coil 220 are produced to align with the rate at which data is being read by the magnetic card reader. Accordingly, it is irrelevant if the credit card device 201a of the present disclosure is being swiped quickly or slowly, the planar coil 220 is controlled by the processor unit 205 to produce data at a substantially optimized rate, where the rate of data production is dependent on the rate at which the credit card device 201a is detected to be passing across the magnetic reader head.

**[0029]** FIG. 2B depicts a credit card device 201b according to an embodiment of the present disclosure. Credit card device 201b comprises a processor 205 and a memory unit 207, the processor 205 operatively coupled to the components of credit card device 201b. The memory 207 comprises a plurality of accounts 209, which may be credit card accounts, banking accounts, merchant accounts, online accounts, cryptocurrency accounts, and combinations thereof. A motion detection module 210 is coupled to the processor unit 205 and to a set of motion detection units, which comprise a rate detection assembly 225, an optical sensor array 230, and a set of accelerometers 235. Additionally, a galvanic sensor 275 is coupled to processor unit 205. The magnetic field is generated via a planar coil 220, which is controlled by the processor unit 205 via a coil interface 215. The rate at which the magnetic field changes polarity to encode the user

data depends on the rate of relative movement detected by the rate detector. The credit card device 201b further comprises a real-time clock 240, a touch-sensor array 245, and a display 250, each operatively coupled to the processor unit 205. A user input may be made via the touch sensor array 245, which may comprise a touch screen panel, a keypad, or a combination thereof. The display 250 is able to display an alphanumeric sequence, as well as graphical icons (such as a logo for a bank, or other images). Further, an optional backup power source 255 is depicted. Credit card device 201b further comprises a near-field communication (NFC) unit 260, as well as a radio frequency identification (RFID) unit 265, both of which are operatively coupled to the processor unit 205. In one embodiment the NFC and RFID may share the planar coil for use as a RF antennae, through the coil interface 215. In one embodiment one or both the NFC and the RFID may have antennae dedicated to that individual sub-system. A universal serial bus (USB) connector 270 is coupled to the processor unit 205. The functionality of the components with regard to exemplary uses of credit card devices 201a and 201b is described in greater detail in the following description.

**[0030]** A further aspect of the present disclosure provides a single credit card device that can be used for multiple banks or financial institutions. For example, instead of carrying a separate credit card for each account of a variety of credit card companies, a customer need only to carry a single card according to embodiments of the present disclosure. The capability of the credit card device to generate a multitude of credit card numbers provides the ability of the credit card device to be associated with multiple accounts. Furthermore, inputs at the touch sensor array on the credit card device can be

used to select the appropriate bank or credit provider account stored in the memory unit of the credit card device.

**[0031]** FIG. 2C depicts a process of selecting an account from a plurality of stored accounts in order to perform a transaction with the selected account, according to an embodiment of the present disclosure. The process 280 begins at step 282, where a plurality of accounts stored by the credit card device memory is displayed. The plurality of accounts 209 are stored by memory 207, and are displayed using display 250. A user indicates an account selected from the plurality of accounts at step 284. The selection is able to be made by keypad or touch sensor array 245, and an indication of the selected account can be displayed via display 250. At step 286 the credit card device is configured according to account information associated with the selected account, which may include an account number, an expiration date, and other user information associated with the account (e.g. a username, PIN, password, email address, etc.). At step 288 the planar coil of the credit card device is encoded with a limited-duration credit card number that is associated with the selected account. The limited-duration credit card number is able to be generated according to the selected account, a timestamp, a transaction amount, an indicated merchant, user key or secrets, on-card unique hardware secrets, credit card authority key or secrets, user input from the card interface, and other information associated with the transaction.

#### MOVEMENT RATE FEEDBACK

**[0032]** The relative movement rate of credit card device 201a is detected by one or more of the set of motion detection units, comprising the rate detection assembly 225,  
WYAT-0002.USD1C1C1C 16

the optical sensor array 230, and the set of accelerometers 235. Each of the motion detection units detects the motion of the credit card 201a in a distinct manner. The rate detection assembly 225, which is positioned alongside (but independent of) the planar coil 220, is able to detect the location of a magnetic head reader as the rate detection assembly 220 is being passed through the credit card reader. The reader module of a conventional credit card reader comprises a metal head having a small gap at the tip of the head. A pickup armature resides in this gap, such that as the metal head passes over a credit card strip, an electric field is induced in the head reader pickup circuit. In one embodiment the rate detection assembly 225 is constructed of an array of auxiliary inductor coils and magnetic pickup coils. As the metal head of the card reader assembly passes over the arrangement of auxiliary inductor coils and magnetic pickup coils of the rate detection assembly 225, a disturbance in the magnetic field flowing between the two is induced, generating a change in current and producing a detected movement signal. The change in current is detected by the motion detection module 210, and is used to determine the rate of motion of the card reader head passing across the surface of the credit card device 201a (and therefore along the planar coil 220).

**[0033]** The optical sensor array 230 is also operable to detect a movement rate of the credit card device 201a with respect to a conventional magnetic card reader. The optical sensor array 230 is disposed nearby the planar coil 220, in order to accurately detect a movement rate in the region of the planar coil 220. In an embodiment, the optical sensor array 230 is a thin strip parallel to, and extending along, the length of the planar coil 220. The optical sensor array 230 determines a location of a minimum of

received light, which corresponds to the region of a surface in nearest proximity to the optical sensor array 230. The magnetic reader head of a conventional magnetic card reader extends furthest from the surface of the card reader, and therefore the detected minimum in received light at the optical sensor array 230 corresponds with the location of the reader head. By tracking over time the position of this minimum received light along the optical sensor array, a detected movement rate may be found.

**[0034]** The set of accelerometers 235 are also operable to detect a movement rate of the credit card device 201a. The set of accelerometers 235 are positioned in the credit card device 201a in order to effectively measure the position and acceleration of the credit card device 201a. In an embodiment, the set of accelerometers comprises groups of accelerometers, each group having one or more accelerometers disposed at orthogonal planes to each other, and each group capable of generating signals that allow for determination of the orientation, motion and acceleration of the credit card device 201a.

**[0035]** The detected movement signal is received by the motion detection module 210. The detected movement signal is generated by any one of the set of motion detection units, or any combination of motion detection units of the set. For example, the movement detection signal is able to be generated by the combination of the rate detection assembly 225 and the optical sensor array 230. In an embodiment, the movement detection module 210 is able to determine the movement rate of the credit card device 201a from the detected movement signals, and transmits the determined movement rate, and orientation to the processor unit 205. In an embodiment, the motion

detection module 210 sends the detected movement signal to the processor unit 205, and the processor unit 205 determines the relative movement rate.

**[0036]** In one embodiment, the generation of the magnetic field by the planar coil 220 at a specified rate of alternating polarity is accomplished according to the following description. One or more of the motion detection units in the set of motion detection units (rate detection assembly 225, optical sensor array 230, and set of accelerometers 235) detect a movement rate of the credit card device 201a with respect to a magnetic card reader, and signal the motion detection module 210. The movement rate is provided to the processor unit 205, which determines the appropriate rate for alternating the polarity of the magnetic field generated by the planar coil 220. The processor unit 205 outputs instructions or data to the coil interface 215 at the determined rate, which in an embodiment is a digital-to-analog converter (a DAC) and acts to translate the signal from digital to analog in order to drive the planar coil 220 and produce the magnetic field. The instructions from the processor unit 205 are comprise binary code, which are output through a shift register to the coil interface 215. The shift register outputs data at a rate proportional to the determined movement rate of the credit card device 201a-- thus, a higher determined credit card device 201a movement rate has a corresponding higher output rate at the shift register, leading to a higher rate of alternating polarity at the generated magnetic field (i.e., encoded data symbols output more quickly).

Conversely, a lower movement rate of credit card device 201a leads the processor unit 205 to control the shift register to output data at a lower rate, and consequently the rate of alternating polarity in the generated magnetic field is lower.

**[0037]** FIG. 3 illustrates an exemplary process 300 for determining the rate to alternate the polarity of the generated magnetic field of the credit card device, according to an embodiment of the present disclosure. At step 301 the process determines if a standard magnetic card reader is detected to be in proximity with the credit card device. If NO, the step repeats. If YES, the process moves to step 303. At step 303 a detection of a movement rate at which the body of the credit card device is moving relative to the standard magnetic card reader is made. The process continues at step 305, wherein a magnetic field is generated by an inductor assembly comprised by the credit card device, the magnetic field having a target rate of alternating polarity that is based on the detected movement rate from step 303. The process then repeats at step 301, determining if a standard magnetic card reader is (or remains) in proximity to the credit card device. In this manner, while a standard magnetic card reader is detected to be in proximity to the credit card device, the movement rate of the credit card device is determined and the polarity and orientation of the generated magnetic field is alternated at the appropriate rate, to recreate the data as described above, at the correct rate, in order to clock out the data to be conveyed to the magnetic strip reader, at a rate matching the action of an ordinary magnetic strip card through same said magnetic card reader.

#### SECURITY

**[0038]** Security is an area of concern for credit card holders, as the small form factor makes theft quite easy, and additionally there are many ways for a malicious third-party to record the account number of a credit card in order to later make

fraudulent transactions on the account. Embodiments of the present disclosure address security concerns of a credit card owner on several fronts.

**[0039]** In one aspect, security of the credit card device is enhanced by providing a means of locking the credit card device in order to prevent use, until such time that a valid user input is entered. Embodiments of the present disclosure provide a credit card device having a region for receiving human input, e.g., touch sensors which are able to be formed by contacts that a user can press (e.g., the touch sensor array 245 of FIGS. 2A-2B). FIGS. 4A-4B illustrate a user interacting with a credit card device 401 via a keypad or touch sensor array 445. In FIG. 4A, the credit card device 401 is in a locked state. A display 450 is able to display a message to the user, for instance, the message "device locked" or "enter password," or question prompts which guide the user to respond with answers through said key-pad or said touch sensor, to certain preset questions, that confirm personal knowledge known only to the associated user. The touch sensor array 445 enables user interaction with the credit card device 401. An exemplary use of the touch sensor array 445 is an input of a currency amount to be used in a transaction. The touch sensor array 445 is able to include buttons, or a touch-sensitive pad, or a combination of the two. Other embodiments of the touch sensor array 445 allowing a user to input data to the credit card device 401 are consistent with the spirit and scope of the present disclosure.

**[0040]** In order to unlock the credit card device 401 and enable a transaction or other usage, the user inputs data via the touch sensor array 445. FIG. 4B illustrates the user inputting a password via a gesture 470, which operates to unlock the credit card

WYAT-0002.USD1C1C1C 21

device 401. The display 450b is able to display a message indicating the credit card device 401 is unlocked and ready for use, for instance, display 450b may display the message "unlocked," or it may display an account number associated with the credit card device 401.

**[0041]** Embodiments of the present disclosure provide additional functionality for the touch sensor array 445. For example, there may be touch contact terminals that a user can press to wake up the credit card device 401, to cause the battery to supply power, or to place the credit card device 401 in a power reduction mode when it is not being used. In an embodiment, if any number other than the correct password is entered multiple times, or if there is an attempted usage of the credit card device 401 without entering in a password, an automatic phone call may be triggered to the appropriate fraud protection authorities.

**[0042]** In one embodiment of the present disclosure, the display 450 is a thin-film liquid crystal display ("LCD"). The display 450 is able to have multiple uses. In one embodiment, the display 450 can be used to cue the user for a security question upon input of an improper password. Or if fraud protection services need to contact a customer, they can verify the customer's identity by transmitting a security question to the display 450 of user's credit card device 401, to which the user would need to respond correctly using the input buttons of touch sensor 445 on the card.

LIMITED-DURATION CREDIT CARD NUMBER

**[0043]** A further security feature of the credit card device provided in the present disclosure is the capability of producing a limited-duration credit card number for performing transactions using accounts of the card. The credit card device comprises a real-time clock that is able to produce a cryptographically protected timestamp for each interaction. The power source is able to activate the processor unit such that a unique number may be generated by the credit card device and verified by the credit authority according to the timestamp and the transmitted user information. The limited-duration credit card number is able to be produced at the time the credit card device is performing a transaction, and is able to be generated according to the user's private information, a bank information, information regarding the facility performing the transaction, and the time of day. The limited-duration credit card number is able to be limited to only one transaction, a finite number of transactions, or may be limited to a specified period of time--e.g., 2 minutes, 10 minutes, 3 hours--after which time that particular limited-duration number would become invalid. As detailed above, if an expired limited-duration credit card is attempted to be used for a transaction, the transaction is denied and an automatic notification is able to be made to a credit authority in order to notify the user and to prevent transactions on the account. The transaction count is able to be determined through the action of passing the card through magnetic reader, and the process of transmitting said card number to said card reader.

**[0044]** In one embodiment, the number on the front of the card is able to be a full or partial number. In an embodiment, the number displayed on the credit card device is

a static number, but the number transmitted during a transaction is a limited-duration credit card number as described above. The number displayed on the credit card device may not necessarily be a static number. For example, the first four and last four digits of the credit card number are able to be fixed, while the remaining eight digits can be dynamically generated. As the credit card is read by the machine, part or all of the number may be dynamically produced at the time the card is read. As described above, the dynamic part of the limited-duration credit card number generated may be based on the user's private information, the user's bank information, the time of day or the facility that is reading the card. Further, the expiration date of the credit card device can also be dynamically generated.

**[0045]** Effectively, embodiments of the present disclosure provide a credit card device that has no fixed number, and therefore the account cannot be compromised. Only the number generated at the instant of the credit card transaction matters. Accordingly, unauthorized use of the credit card device is highly unlikely, because a transaction cannot be conducted with an expired limited-duration credit card number, or only the static portion of the credit card number. In one embodiment of the present disclosure, sufficient dynamically generated numbers are provided for on the credit card such that a unique credit card number can be generated for each transaction. In this embodiment, the credit card of the present disclosure effectively acts as a unique per-transaction credit card.

**[0046]** In one embodiment, the process steps enabling a card transaction are as follows. A credit card device (e.g., credit card device 201b) is connected to a computer  
WYAT-0002.USD1C1C1C 24

system (e.g. computer system 590), via any of the connection means available to the credit card device (USB 270, NFC 260, and RFID 265). User data and other essential information, such as account information, are downloaded to the credit card device. For example, for an account designed for online transactions, user account information will likely include an account email and an account password. The account may be for example a bank account, a credit account, a merchant account, an online transaction account, or a cryptocurrency. In one embodiment a currency amount is also downloaded, which is made accessible to the credit card device 201b for transactions. In an alternative embodiment, rather than a currency amount being downloaded to the credit card device 201b, the user account information (e.g., username and password) is stored such that a subsequent authorized credit card device 201b transaction is automatically pre-authorized to deduct (or credit) the entered transaction amount at a stored account. In an embodiment, a user uses the touch sensor array 245 of the credit card device 201b in order to input the user information, including the amount of currency to be stored. The information entered by the user is able to include an account source of a transaction (e.g., bank account, credit account, merchant account, ATM, online payment service, or a cryptocurrency), as well as a type of transaction to be made (e.g., as a debit card, as a credit card, or as a user account). In another embodiment, the information is entered using the computing system to which the credit card device 201b is connected.

**[0047]** Transactions may be authenticated on the specified account by entry of the username and password for the account during the transaction, using the touch sensor array 245. In an embodiment, a password for an account is represented by a user input

(such as a gesture, a swipe, and/or an unlock keycode) which is entered on credit card device 201b during a transaction for account authentication. According to an embodiment of the present disclosure, a user that has "primed" the credit card device 201b for a transaction has already performed a security authentication on the card, and therefore a subsequent card transaction is able to be pre-authorized to perform the transaction without further user authentication steps. The priming action can be a tap of the credit card device 201b detected by accelerometers 235, or a gesture, swipe, or a key input received by touch sensor array 245.

**[0048]** A transaction is able to be communicated using the planar coil 220. In one embodiment, when the transaction is a credit card transaction, a limited-duration credit card number is generated. A user inputs an amount for the transaction using the touch sensor array 245, and the limited-duration credit card number is generated to correspond with the entered amount. The binary data corresponding to this limited-duration credit card number is sent from the processor unit 205 to the coil interface 215, where it is converted to an analog signal in order to drive the planar coil 220 to generate a magnetic field having an alternating polarity corresponding to the encoded data of the limited-duration credit card number.

#### ONLINE TRANSACTIONS

**[0049]** FIG. 5 displays the credit card device 501 in connection with a computing device 590. In one embodiment, the credit card device 501 is able to be used to make online purchases. In one embodiment, the credit card device 501 is equipped with a means 570 for communicating with the USB port on a computer or other device in order

WYAT-0002.USD1C1C1C 26

to make online purchases. In one embodiment the credit card device 501 may have an area cut-out, such that contact terminals corresponding to a USB cable connector are contained within, enabling connection of a USB cable (e.g., a micro-USB connection). When performing online transactions, the credit card device 501 can uniquely generate a limited-duration credit card number (as described above) for online purchases. The credit card device 501 receives a user input indicating that a transaction is imminent, and an authorization. The user input is able to comprise a gesture, a swipe, a key input sequence, and combinations thereof. The limited-duration credit card number is able to be displayed on the front display of the credit card device 501. In one embodiment, the credit card device 501 is able to use RFID 265 or near field communication NFC 260 technology in order to connect to a personal computer 590. This enables a per-transaction, limited-use credit card number, enhancing the security of the credit account by substantially negating the possibility of a theft of the credit card number used to perform the transaction leading to account compromise.

**[0050]** According to an embodiment, the transaction is able to include information regarding a user account, such as an email address of the user, and upon reconnection of credit card device 201b to a computer system (for instance, computer system 590), the transaction information stored on credit card device 201b could be "replayed" by the computer system in order to finalize the transaction.

**[0051]** In one embodiment, a means of limiting an available credit amount are provided. According to the download process described above, the credit card device is able to have a total credit available. The credit card device is able to reference the total

WYAT-0002.USD1C1C1C 27

credit available in subsequent transactions, and will provide limited-duration credit card numbers corresponding to amounts up to, but not exceeding, the remaining credit available to the credit card device. An attempt to perform a transaction having an amount exceeding the remaining credit available will not result in a valid limited-duration credit card number, and therefore an authenticated transaction cannot proceed. In general, the credit card device will only successfully generate a limited-duration credit card number if the proper conditions for a transaction are determined to be present. The proper conditions for a transaction comprise a correct identification having been made by the user (via a gesture, swipe, and/or key input) and an amount for the transaction indicated to be less than the total credit available to the account indicated for the transaction.

#### CARD-TO-DEVICE TRANSACTIONS

**[0052]** In addition to transactions performed using conventional magnetic card readers (such as at point-of-sale locations, banks, and automated teller machines (ATMs)) and via cable connection with a computing device, transactions performed wirelessly between a card and a device (e.g., card-to-card, card-to-computer device having a reader dongle, card-to-ATM) are provided according to embodiments of the present disclosure. For simplicity, the following describes a card-to-card transaction, but it will be understood that card-to-device transactions are similarly provided.

**[0053]** FIG. 6 illustrates a card-to-card transaction according to one embodiment. A first credit card device 601a comprises a display 650a, and is in contact with a second credit card device 601b. A contact interaction between the cards is indicated by

WYAT-0002.USD1C1C1C

28

interaction 680. In one embodiment, the contact interaction is a tapping of credit card device 601a against credit card device 601b. In another embodiment, an optical sensor array at one or both of the cards detects interaction 680. In another embodiment, interaction 680 indicates a swipe of credit card device 601a across credit card device 601b. In one embodiment a user input through said key-pad initiates and enables a transaction from first card to second card. In one embodiment the presence of second card in preparation for card to card transaction is confirmed through "polling", the process of which involves transmission of data between cards, and confirmed receipt of transmitted data by response received from second card received at first card, including information confirming receipt of said information, by second card.

**[0054]** The planar coil comprised by each of credit card device 601a and credit card device 601b is able to be a means of transferring information for a transaction, e.g., such as an antenna. Once either, or both, of credit card device 601a and credit card device 601b detect interaction 680, a transaction is able to be completed via generation of a magnetic field at one card and reception of the magnetic field (i.e., reading) at the other card. In this manner, the card (e.g., credit card device 601a) receiving the transaction information operates its planar coil in an antenna mode. This enables credit card device 601a and credit card device 601b to authentically perform a transaction, and to transfer a currency between credit card device 601a and credit card device 601b. As described above, in an embodiment the transaction is able to use a limited-duration card number to encode the transaction.

**[0055]** In an embodiment, a set of accelerometers is used to detect the beginning of the transaction, for instance, a transaction performed by a swipe of credit card device 601a across credit card device 601b. Further, the set of accelerometers can detect a "priming" action for a credit card device, i.e., an indication for a credit card device that a transaction is imminent. The priming action can be a tap of the credit card device 601a, or tapping the credit card device 601a against the credit card device 601b. In one embodiment, a touch sensor array is able to be used for the priming action.

**[0056]** In an embodiment of a card-to-card transaction, one card (e.g. 601a, the card of the user having a currency debit) generates the limited-duration credit card number, which is transmitted via the card's planar coil. The credit card device of the recipient (e.g., 601b, the card of the user receiving a currency credit) receives the encoded data via the planar coil, acting as an antenna, and the coil interface is able to convert the received signal into a digital signal understood by the processor to be the limited-duration credit card number, identifying both the correct account and the amount of the transaction.

**[0057]** In one embodiment, the credit card device 201b stores cryptocurrency information in processor unit 205. The cryptocurrency information stored is able to include a plurality of cryptocurrency addresses, a plurality of private keys, and a plurality of public keys. The credit card device 201b is able to perform a transaction, as described above, using a cryptocurrency as the specified account. In one embodiment, the credit card device 201b is able to hash a portion of the transaction, using the processor unit 205 and the real-time clock 240 along with user information pertinent to

WYAT-0002.USD1C1C1C 30

the cryptocurrency account and the transaction. A subsequent connection of the credit card 201b to a computing device provides a means of connecting to the cryptocurrency servers and finalizing the transaction. Further, the credit card device 201b is able to sign a cryptocurrency transaction by, for instance, receiving a prompt at the display 250 to input a dynamic PIN specific to the transaction, which is able to be entered by touch sensor array 245.

**[0058]** In a card-to-card cryptocurrency exchange, a record of the transaction can be made according to the following. A first card (e.g. 601a) making a deduction with an amount indicated via touch sensor array 245 is able to generate a record of the transaction and store the record in the card memory, while a second card (e.g. 601b) receiving the cryptocurrency is able to generate a confirmation of the received transaction amount. In one embodiment, the amount indicated is provided by the receiving card 601b. The hashed record of the transaction contains the unique information of each user, along with the transaction amount. The success or failure of the transaction is able to be displayed on the respective displays of credit cards 601a and 601b.

#### ACCOUNT THEFT AND UNINTENDED USE PREVENTION

**[0059]** A security concern for conventional credit cards utilizing wireless communication means is the ability of a thief to access and/or copy user information through un-detected interaction with the wireless communication means. Sensitive and confidential information can be gleaned via, for example, "listening-in" on an RFID interaction between a credit card and a contactless reader, recording the characteristics

WYAT-0002.USD1C1C1C 31

of the interaction, and replicating certain characteristics to fake an authorized transaction. While to a great extent security concerns are addressed by the usage of limited-duration credit card numbers and other security features provided for by the credit card of the present disclosure and previously described, a further security feature regarding the wireless communication means of the credit card device is described herein.

**[0060]** In one embodiment, wireless communication means of the credit card device 201b are in a powered-down, or disabled, state prior to receiving an authenticated activation signal from a user. Upon receiving the activation signal, the communication means (e.g., NFC 260, RFID 265, and planar coil 220) are activated, enabling the credit card device 201b to conduct a transaction. The activation signal can originate from one (or a combination) of the set of motion detection units (rate detection 225, optical sensor array 230, and accelerometers 235), the touch sensor array 245, and the galvanic sensor 275. The galvanic sensor 275 is operable to detect a contact of human skin, via a current produced at the sensor 275 upon such contact. In an embodiment the galvanic sensor 275 is comprised of metallic contacts disposed on opposite sides of, and isolated by, the body of credit card device 201b. In one embodiment, the current produced by user contact with the galvanic sensor 275 contacts is sufficient to provide small amounts of energy in order to power components of the card. For example, energy produced is able to power the processor unit 205 and the RFID 265. In one embodiment the galvanic sensor 275 further comprises two conducting surfaces separated by a junction, and the galvanic sensor 275 is configured as a thermoelectric generator (e.g., via the Peltier

effect, the Seebeck effect, or a combination). For example, heat applied at one surface of the credit card device 201b may lead to differential heating between the opposing, separated conducting surfaces of the galvanic sensor 275, generating an electric current and powering a subset of, or all of, the components of credit card device 201b (e.g., the processor unit 205, the NFC 260, and the RFID 265).

**[0061]** In an embodiment, the communication means are activated only so long as the activation signal continues to be detected. In another embodiment, the communication means are activated for a specified amount of time following detection of the activation signal. For example, if using the credit card device 201b in an ATM (or other device) preventing continuous human contact, the activation signal is able to be a swipe, gesture, or key input sequence entered via the touch sensor array 245, which activates the card for a specified duration (for instance, one minute). In an embodiment the detection of motion through accelerometer input indicates activation by a valid user. In one embodiment the specific motion detected through accelerometer input corresponding with a specific user action, such as a "flick", "swipe", "spin", "wave", "tap," may be used to initiate activation, wherein said motion is not normally generated at idle and during periods of inactivity. For example said motion not being generated accidentally while said card is stored in a user's wallet, carried while the user is actively moving, or is being handed from user to a clerk at a point of transaction. In one embodiment the specific motion, or sequence of motions, may be associated with a user, and stored on said card memory, such that performing the correct sequence when

prompted can confirm the possession of the card by the known owner, thus initiating activation and enabling usage.

**[0062]** FIG. 7 depicts a process of selectively enabling the communication capability of the credit card device according to an embodiment of the present disclosure. The process 700 begins at step 701, where an input signal is received at the credit card device from a user. The input signal is able to be generated by any one, or combination, of a plurality of input means, where the input means comprise: a swipe gesture received at a touch sensor array; a key press sequence; an accelerometer sensor indication of credit card device motion; and a galvanic sensor indication that the credit card is in a user grasp. The input received from the user enables operation of a near-field communication (NFC) unit of the credit card device. In one embodiment, the NFC unit is disabled prior to receiving the input signal. In one embodiment, an RFID communication unit is disabled prior to receiving the input signal, and is activated by the input signal. In one embodiment, the planar coil is disabled prior to receiving the input signal, and is activated by the input signal.

**[0063]** The credit card device, following enablement of the NFC unit, receives an indication of an amount of currency for a transaction at step 703. At step 705, the credit card device generates a limited-duration credit card number, which at step 707 is transmitted to a recipient of the transaction. In one embodiment, the limited-duration credit card number has a limited recurrence, and is limited in scope of use to a predetermined number of authorized transactions.

**[0064]** In the foregoing description of process 700, the ordering of the process steps is exemplary and should not be construed as limiting. Alternative ordering of the process steps is consistent with the present disclosure, as conceived by one skilled in the relevant art.

**[0065]** In one embodiment of the present invention, a credit card comprises a dynamic magnetic strip incorporating a main inductor assembly from which magnetic field data symbols are dynamically generated. In one embodiment the inductor assembly may be a planar coil formed within the plastic that the credit card is composed with. The advantage of using a planar coil is that it can produce the same magnetic field interaction that a traditional magnetic strip on a conventional credit card can produce when it is passed through a reader. Similar to a traditional plastic credit card, the planar coil can also produce a magnetic field that can be read by a pickup (or “transducer”). The pickup produces electric current in the coil that, in turn, produces a magnetic field that is read by the pickup. Accordingly, the planar coil can be read in the same way as the magnetic strip on a traditional plastic credit card. The magnetic field produced by the planar coil would behave identically to a traditional magnetic strip.

**[0066]** In one embodiment, alongside the main planar coil, auxiliary rate detection assembly independent of the main inductor assembly would be provided to assist with the alignment of the production of data from the loop as it is being passed over the head of the credit card reader. The reader module of a traditional credit card reader comprises a metal head with a small gap on the tip of the head. This gap is where the pickup armature resides, so that when the metal head passes over the credit card strip,

an electric field is induced in the head reader pickup circuit. In one embodiment the auxiliary rate detection assembly is constructed of an array of auxiliary inductor coils and magnetic pickup coils, alongside the main coil. As the metal head of the card reader assembly passes over the arrangement of auxiliary coils and pickup circuits, a disturbance in the magnetic field flowing between the two generates a electrical current change that is detected by a rate detection circuit so as to detect the rate of motion of the card reader head passing across the surface of the card and therefore along the main induction assembly. The purpose of this is to allow the determination of the rate or production of magnetic data symbols in the main inductor assembly to align with the rate at which data is being read by the reader, according to the data density of standard card magnetic strips. Accordingly, it is irrelevant if the credit card of the present invention is being swiped fast or slow, the main inductor assembly produces data at just the right rate depending on the rate at which the card is detected it is being passed over the reader's head.

**[0067]** In one embodiment, a microprocessor is connected to the main coil and the alignment pickups. The microprocessor is responsible for producing the data from the coil at the appropriate rate in accordance with the speed with which the card is swiped through the reader. As shown in Figure 1, the auxiliary coil detects the rate at which the credit card is being swiped. The microprocessor then uses this information to produce the data from the main planar coil at the appropriate rate for the credit card reader.

**[0068]** In addition, the credit card of the present invention comprises a real time clock that can produce a cryptographically worthy timestamp for each interaction and a battery back up that can be used to power up the microprocessor. Further, the card can comprise additional human inputs, e.g., touch sensors which can be formed by contacts that a user can press. For example, there can be contacts that a user can press to wake up the card, to cause the battery to supply power, or to put the card to sleep when it is not being used. There can also be additional inputs to key in customer specific information. For example, there can be inputs to key in a password or any other kind of unique identifier. If any other number besides the password is entered multiple times, or if there is attempted usage of the card without entering in a password, an automatic phone call may be triggered to the appropriate fraud protection authorities.

**[0069]** In one embodiment, the number on the front of the card can be a full or partial number. The number may not have to necessarily be a static number. For example, the first four and last four digits of the card number can be fixed while the remaining eight can be dynamically generated. As the credit card is read by the machine, part or all of the number may be dynamically produced at the time the card is read. The dynamic part of the number generated may be based on the user's private information, the user's bank information, the time of day or the facility that is reading the card. Further, the expiration date of the card can also be dynamically generated. Effectively, a credit card can be created that has no fixed number and therefore cannot be stolen. Only the number generated at the instant the card is being used matters. Accordingly, unauthorized use of the card is nearly impossible because no transaction

can be conducted with only the partial static part of the credit card number. In one embodiment of the present invention, enough dynamically generated numbers are provided for on the credit card such that a unique credit card number can be generated for each transaction. In this embodiment, the credit card of the present invention effectively acts as a unique per transaction credit card.

**[0070]** In embodiments of the present invention comprising dynamically created credit card numbers, a single credit card can be used for multiple banks. For example, instead of carrying a separate credit card for all the different credit card companies, a customer would only need to carry a single card and one of the inputs on the front of the card can be used to select the appropriate bank or credit provider.

**[0071]** In one embodiment of the present invention, a thin film liquid crystal display ("LCD") can be fitted on the card so the credit card can have a display screen. The display can have multiple uses. In one embodiment, the display can be used to ask the user a security question if an improper password is entered. Or if the fraud protection services need to contact a customer, they can verify the customer's identity by transmitting a security question to the user's credit card screen to which the user would then need to respond correctly using the input buttons on the card.

**[0072]** In one embodiment, the credit card of the present invention could also be used to make online purchases. In this embodiment, the card could use RFID or near field technology so that it can connect to a personal computer and be used to uniquely generate a credit card number for online purchases. The number could also, in one

embodiment, be displayed on the front LCD of the card. In one embodiment, the card may also be equipped with a means for communicating with the USB port on the computer in connection with making the online purchases.

TABLE 1

What is claimed is:

1. An apparatus for conducting credit transactions comprising:

a device with the similar dimensions and thickness to a standard credit card

an inductor assembly integrated into said device capable of generating a programmed magnetic field at a location on the device where it will come into proximity to a standard credit card magnetic-strip reader

the inductor assembly being operable to be read by a magnetic pickup of an electronic credit card reader;

at least one auxiliary rate detection units adjacent to said inductor assembly, wherein said at least one auxiliary detection unit is operable to detect a rate at which said device, including said inductor assembly, is passed through said electronic credit card reader; and

a microprocessor operatively coupled to said inductor assembly and said at least one detection unit, wherein said microprocessor is operable to simulate magnetic-strip data fields using the inductor assembly, at a rate determined from said auxiliary detection units.

2. A method of Claim 1, wherein the inductor assembly is a planar coil which is a looped inductor with dimension roughly equal to, and along the axis of, the standard credit-card magnetic strip
3. A method of Claim 1, wherein said detection assembly consists of a plurality of motion rate detection units, which may comprise inductor coils and companion magnetic-field pickup coils, each of which is able to detect the proximity of metallic objects, such as magnetic-strip reader heads, passing through the magnetic field created by said inductor and detected by said pickup coil.
4. A method of Claim 1, wherein said device may incorporate a plurality of touch sensors arranged along the surface of said device which may;
  - allow user input of information,
  - allow introducing a transaction specific identifier,
  - to confirm/deny transaction information,
  - to operate in sequence, or with a gesture across said sensor for the purpose lock/unlock or control access for transactions
5. A method of Claim 4, wherein said device contains a real-time clock or counter unit which generates a sequential parameter when the card is read by said credit card reader, and which along with certain user information, transaction identifiers, user secrets, credit card authority secrets is combined to generate a

limited-use credit card number, which has a limited recurrence, is limited in scope of use to a predetermined number of authorized transactions

6. A method of Claim 5, wherein the time, sequence, user, credit card authority and other information is similarly combined by credit card processing facility to generate a credit card number for comparison to the number transmitted by the credit card reader, for the purposes of authenticating said number is from a recognized card used in a user-authorized transaction

7. A method of Claim 1, wherein said device incorporates a display allowing credit card number, time, passcodes, sequence codes, amounts and other credit card transaction information to be displayed for user, merchant, bank or credit card authority

8. An Apparatus for conducting credit transactions comprising,  
wherein the edge of said device contains a connector for connection to standard computing devices such as a USB interface.

**[0073]** The foregoing description, for purpose of explanation, has been described with reference to specific embodiments. However, the illustrative discussions above are not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many modifications and variations are possible in view of the above teachings. The embodiments were chosen and described in order to best explain the principles of the

invention and its practical applications, to thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as may be suited to the particular use contemplated.

**[0074]** Embodiments according to the invention are thus described. While the present disclosure has been described in particular embodiments, it should be appreciated that the invention should not be construed as limited by such embodiments, but rather construed according to the below claims.

## CLAIMS

What is claimed is:

1. A method of performing a transaction, the method comprising:
  - receiving an input at an electronic device, wherein the input corresponds to a priming operation of the electronic device by an identified user and wherein the electronic device comprises:
    - a processor; a touch screen display coupled to the processor; and
    - a near field communications (NFC) interface coupled to the processor;
  - receiving a request for a transaction payment at said electronic device via the NFC interface;
  - displaying, on the touch-screen display, images of:
    - a card issuer payment method selection, including a last 4-digit partial number of a card issuer supplied account number of a payment card;
    - a card logo; and
    - other iconography of the payment card;
  - generating, by the processor, a limited-use payment information, and using said limited-use payment information in place of said card issuer supplied payment information;
  - transmitting said limited-use payment information from said electronic device to an NFC recipient of the transaction via said NFC interface; and

visually conveying a status of said transaction via a user-interface displayed on said touch-screen display.

2. The method of Claim 1, wherein the generating the limited-use payment information utilizes at least one information from a set of information comprising:

- a device transaction sequence counter;
- a device account number; device secret keys;
- card issuer keys;
- merchant information;
- NFC recipient information;
- payment reader information;
- a time;
- a timestamp;
- an amount;
- a location;
- an online location;
- transaction information;
- payment information;
- device information;
- user information;
- an email address; and
- a user identification entry.

3. The method of Claim 1, further comprising:

dynamically generating a cryptogram number for use by the electronic device in place of a card validation value originated from the card issuer, and wherein the dynamically generating the cryptogram number comprises cryptographically combining a device transaction sequence counter count and at least one information of a set of information comprising:

a device account number;

device identifiers;

device secrets;

device keys;

payment issuer secrets;

payment issuer keys;

user information;

a time; and

transaction information; and

wherein further, said dynamically generating the cryptogram number results in a one-time limited-use number via the device incrementing said device transaction sequence counter count on a transaction.

4. The method of Claim 1, wherein a limited-use number comprises a device account number,

and wherein the device account number is of a limited time-duration of valid use,

and wherein further a card issuing authority provides said device account number for use only by the electronic device, in place of card issuer information in performing payment transactions by the electronic device, and further comprising:

performing payment transactions by the electronic device including the limited-use number;

combining the limited-use number and said device account number within a device generated payment information; and

conveying said device generated payment information, in place of card issuer information, when the device is performing payment transactions.

5. The method of Claim 1, further comprising:

generating a limited-use security number for use in place of a card issuer card security code by cryptographically combining information from at least one of a set of information comprising:

user information;

an internet address;

an email address;

a device transaction sequence counter;

a device account number;

device identifiers;

device secrets;

device keys;

issuer secrets;

issuer keys;  
a payment card account number;  
a payment card security code;  
a time;  
an expiration date;  
an amount;  
a merchant locality;  
transaction information; and  
displaying the limited-use security number on the user-interface of the display.

6. The method of Claim 1, wherein a payment processing authority verifies a limited-use number based on at least one information of the set of information comprising:

a transaction sequence count information;  
a device account number;  
user account information;  
issuer secrets;  
issuer keys;  
issuer-provided device keys;  
transaction information; and  
a time of use, and further comprising:

authorizing said transaction, by the payment processing authority, responsive to verifying a valid limited-use number appearing in place of card issuer information; and

rejecting a limited-use number, by the payment processing authority, on at least one unverifiable condition, of a set of unverifiable conditions comprising:

- an invalid number generation;
- an invalid device account number;
- a use outside of a valid time window;
- an invalid re-use of a limited-use number; and
- an invalid use of an expired limited-duration number.

7. The method of Claim 1, wherein the receiving an input at an electronic device comprises receiving an input via a user interface from one of the set of user interfaces comprising:

- a device button;
- a device touch-screen interface;
- a device touch ID button interface;
- an device optical sensor array;
- a device skin touch sensor;
- a skin-contact sensor;
- a device motion detection interface;
- a device biometric sensor interface; and
- a device user-interface selection.

8. The method of claim 1, wherein the priming operation comprises one operation of the set of operations comprising:

a button press;

a touch ID button press;

a button double-press;

a touch ID sensor touch;

a touch-screen touch;

a touch-input sequence;

a gesture or swipe over a sensor-array;

a skin-contact sense;

an optical-sensor array sense;

an electronic device tap;

a sequence of motions of the electronic device;

a user-interface selection of a payment method; and

a user-interface selection initiating a payment-operation; and,

further comprising enabling the electronic device for payment via successfully completing at least one of a set of user-validations comprising:

a touching from an identified valid user;

a user entry of a valid passcode;

a user entry of a valid PIN;

swiping of a recognized user skin over a device sensor array;

a correct user swiping or gesturing on the electronic device;

a correct sequence of user taps on the electronic device;

a correct user sequence of user motioning of the electronic device;

a skin-contact sensing of an identified user;

a device biometric sensing of a valid user identity; and

a device biometric sensing the electronic device is continuously remaining in the proximity possession of a valid user.

9. The method of Claim 1, further comprising:

obtaining, by the electronic device, a user payment approval, through at least one device user interface of a set of interfaces comprising:

a device display interface;

a device touch-screen display interface;

a device touch interface;

device input buttons;

device key-pad inputs,

a device optical sensor array;

a device motion detection unit;

a device accelerometer;

a device biometric user-sensor; and

a device biometric sensing the electronic device is continuously remaining in the proximity contact of a valid user; and

displaying, on the display, at least one information of a set of information comprising:

a priming status of the electronic device for payment;

a default payment method;

a plurality of selectable payment accounts;

a payment request;  
transaction information;  
a payment amount;  
a merchant identification;  
a time;  
an expiration date;  
a location;  
an account balance;  
a payment bank logo;  
a card image;  
a payment card issuer icon;  
a payment card network icon;  
the last 4-digits of the primary account number;  
the last 4-digits of the device account number; and  
other payment iconography; and  
receiving a user input of at least one user action, from a set of actions comprising:  
a payment method selection;  
a payment approval authorization;  
a payment denial; and  
an adjustment of a transaction payment.

10. The method of Claim 1, further comprising:

activating an NFC communication for a limited duration of time responsive to the electronic device priming; and

responsive to the preset duration being exceeded, terminating the NFC communications and aborting the transaction.

11. The method of Claim 1, further comprising completing the transaction on the electronic device, wherein the completing further comprises:

receiving an authorization input on the electronic device from a valid device user, in response to at least one of a set of exceptional conditions comprising:

the electronic device leaving the proximity of the NFC recipient;

the incomplete identifying of a valid device user;

the electronic device leaving the user's possession;

the electronic device leaving the proximity contact of the user;

the electronic device leaving the grasp of the user;

a biometric sensing the electronic device leaving the possession of a user since a last user validation;

the transaction exceeding a pre-set amount limit;

the transaction interval exceeding a pre-set time duration;

a card issuing authority requesting a security check; and

presenting the user with at least one of an set of selectable options comprising:

requesting a transaction payment;

continuing with the default payment method;

selecting an alternate payment account;

inputting an approval authorization;  
inputting a transaction denial; and  
inputting an adjustment of the transaction payment.

12. The method of Claim 1, further comprising:

subsequent to the priming operation, offering a user selection of payment options for user input selection by presenting a selection of payment options in graphical format on said touch-screen display, including at least one of:

a last four digits of a payment account number portion;  
a last four digits of a device account number portion;  
an expiration date;  
a card issuer icon;  
a bank logo;  
a card processing network logo;  
a card image;  
a card payment network icon;  
graphical images associated with the payment account;  
accepting a user input selection of a payment option, from said payment options, via said touch-screen display; and  
proceeding with a default payment option in said device payment transaction responsive to a user not selecting any of said payment options.

13. A method of Claim 1, wherein the priming operation comprises:

WYAT-0002.USD1C1C1C

53

a button double press; and

a biometric sense of the device continuously remaining in the proximity contact of a valid user, since a last validation; and further comprising:

denying the priming operation for payment when the electronic device is not sensed as being continuously within the proximity contact of a valid user, until after successfully re-validating a user; and wherein re-validating a user requires a correct user passcode re-entry;

disabling a device priming operation on further button pressing;

disabling a payment priming operation after the expiration of a pre-set time duration from a successful priming action; and

disabling a device priming operation responsive to completing a transaction.

14. A method of Claim 1, wherein the priming operation is input after at least one of:

a biometric sense of a touch contact of a valid user's skin on a touch ID button of the electronic device, and validating a user passcode entry on the touch-screen display of the electronic device;

disabling a device priming operation on further button pressing;

disabling a payment priming operation after the expiration of a pre-set time duration from a successful priming action; and

disabling a device priming operation responsive to completing a transaction.

15. A method of performing a transaction, the method comprising:

receiving an input signal at an electronic device, the input signal corresponding to a request for payment of a transaction at said electronic device, via a recipient proximity communication request to an NFC interface of the electronic device;

displaying a summary of selectable payment account options at a touch-screen display user-interface of the electronic device;

receiving, from a valid device user, a payment selection and approval authorization input on the electronic device;

generating a limited-use number at said electronic device, and using said limited-use number in place of at least a portion of selected account issuer payment information; and

transmitting said limited-use number from said electronic device to a transaction recipient via the NFC interface.

16. The method of Claim 15, further comprising:

visually conveying on the touch-screen display user-interface, information regarding the transaction, including at least one of:

a payment amount requested;

an indication requesting an authorization input;

an indication of an authorization success;

an indication of an authorization failure;

an option to retry a transaction;

an option to retry a user authorization;

an option to retry validating a user identity;

an indication of a payment successfully completed;  
an indication of a payment failure; and  
an indication of a payment retry option.

17. The method of Claim 15, further comprising:

visually presenting on the touch-screen display user-interface, a plurality of payment options, including at least one of a set of payment method information for each payment option, the set comprising:

a card image;  
a payment issuer logo;  
partial payment account numbers;  
a card payment network icon;  
a graphical image-encoding of a users payment account information;  
an amount of currency;  
an account balance;  
a credit limit;  
an amount of remaining credit;  
an amount of cryptocurrency;  
a cryptocurrency server network; and

receiving a user-selection of a payment method for a transaction via said touch-screen display user-interface.

18. The method of Claim 15, further comprising:

WYAT-0002.USD1C1C1C

56

receiving a priming operation at the electronic device for priming the electronic device for imminent payment, wherein the priming operation causes the electronic device to successfully identify the user through completing at least one user-validation, of a set of user validations comprising:

- a touching of the device by an identified user;
- a user entry of a valid passcode;
- a user entry of a valid PIN;
- a swiping of a recognized user skin over a sensor array of the electronic device;
- a correct user swiping or gesturing on a touch sensor array of the electronic device;
- a correct sequence of user taps on the electronic device;
- a correct user sequence of user motions of the electronic device;
- a skin-contact sense of a valid user; and
- a device biometric recognition of a valid user.

19. The method of Claim 15, further comprising:

obtaining a user payment approval through at least one user-interface of the electronic device, of a set of user-interfaces comprising:

- a touch-screen interface of the touch-screen display user-interface;
- a touch ID button;
- input buttons;
- a touch key-pad;
- an optical sensor array;

a sensor array operable to recognize a swiping of a recognized user skin over the sensor array;

a motion detection unit;

an accelerometer;

a biometric user-sensor;

a device biometric sensor operable to determine the electronic device continuously remains in contact with a valid user while the electronic device is coming within proximity contact of an NFC recipient;

displaying on said display at least one of a set of information comprising:

transaction information;

merchant information;

a time;

a location of the transaction;

a payment bank logo;

a card issuer icon;

a payment card image;

an amount; and

receiving a user input providing for at least one transaction action, from a set of actions comprising:

approving a transaction;

denying a transaction; and

adjusting a transaction.

20. An electronic device comprising:
- at least one processor;
  - a memory coupled to the at least one processor;
  - a display operable to present a visual user-interface comprising device inputs;
  - display output;
  - a device input;
  - an NFC interface operable to receive a transaction request when in proximity to an NFC recipient;
- wherein the processor is operable to execute a program to implement a method comprising:
- accepting a priming action of the electronic device by an identified device user, from the device input;
  - enabling the electronic device for imminent performance of a payment operation responsive to the priming action of a valid user;
  - displaying a summary of selectable payment account options on the display;
  - receiving a payment selection and approval authorization from a valid device user via the device input; and
  - responsive to receiving an NFC transaction payment request, generating a limited-use payment information for use in place of card issuer payment information,
- wherein the NFC interface is operable to transmit said payment information from said electronic device to the NFC recipient of the transaction; and

wherein further the processor is operable to cause the display to visually convey a status of the transaction.

21. The electronic device of Claim 20, wherein the method further comprises:

receiving the priming action of a valid user via the device input, wherein the device input comprises at least one of a set of device inputs comprising:

a button;

a touch ID button;

a touch sensor array;

a touch key-pad;

a motion detection unit;

an accelerometer;

an optical sensor array; and

identifying a valid device user through an input detection, selected from at least one of a set comprising:

a correct passcode entry sequence;

a touch ID recognition of a known user;

a biometric recognition of a valid user;

a biometric sensing of a valid users skin;

a biometric detection that the electronic device continuously remains in contact with a valid user; and

receiving a correct user response input, from a security challenge presented on the display.

22. The electronic device of Claim 20, wherein the memory is accessible to the processor,

wherein said memory comprises a static device-specific device account number of limited-use that originates from a card issuing authority and is limited to use by the electronic device in place of a card issuer account information,

wherein further said static device-specific device account number has an expiration date of limited duration of validity, and

wherein the generating a limited-use payment information comprises the processor generating said limited-use payment information by combining said static device-specific device account number, said device account expiration date,

when said issuer payment account method is selected.

23. The electronic device of Claim 20, wherein the memory is accessible to the processor, and wherein said memory comprises:

a static device-specific device account information including a device account number of limited-use;

and keys, wherein said device-specific device account information originates from a card issuing authority and is for limited-use by the specific electronic device only;

and wherein said static device-specific device account information is valid for a limited duration, and wherein the generating a limited-use payment information comprises the processor generating a one-time limited-use cryptogram number and

combining said limited-use static device account information and said one-time use cryptogram number to produce the limited-use payment information.

24. The electronic device of Claim 20 further comprising a cryptographic processor operable to dynamically generate a one-time limited-use cryptogram number by cryptographically combining of at least one information accessible on the electronic device, selected from a set comprising:

- a sequence counter;
- a device account number;
- a device secret;
- device keys;
- card issuer keys;
- a time;
- an amount;
- an expiration date;
- a card security code;
- a location;
- merchant information;
- NFC recipient information;
- payment reader information;
- an online location;
- transaction information;
- payment information;

device information;  
user information;  
an email address;  
a user identification entry;  
a hash of transaction information;  
and a hashed record of transactions, and  
wherein said cryptogram number is operable to be used in place of at least a portion of a  
card issuer payment information, in a payment transaction.

## SMART TOKENIZING PAYMENT CARD AND DEVICE SYSTEM

### **ABSTRACT**

An embodiment includes a credit card device capable of generating a programmed magnetic field of alternating polarity based on a speed of a card swipe, and methods for constructing the device for the purpose of emulating a standard credit card. An apparatus is described to allow said device to emulate behavior of a credit card when used in electronic credit card readers. Additionally methods are described to allow user control of said device for the purpose of authorizing or controlling use of said device in the application of credit, debit and cash transactions, including cryptocurrency and card-to-card transactions. Methods are also described for generating a limited-duration credit card number when performing a transaction for the purpose of creating a limited-use credit card number, which is limited in scope of use to a predetermined number of authorized transactions. Furthermore said device may interact with other similar devices in proximity for the purpose of funds or credit/debit transfers.

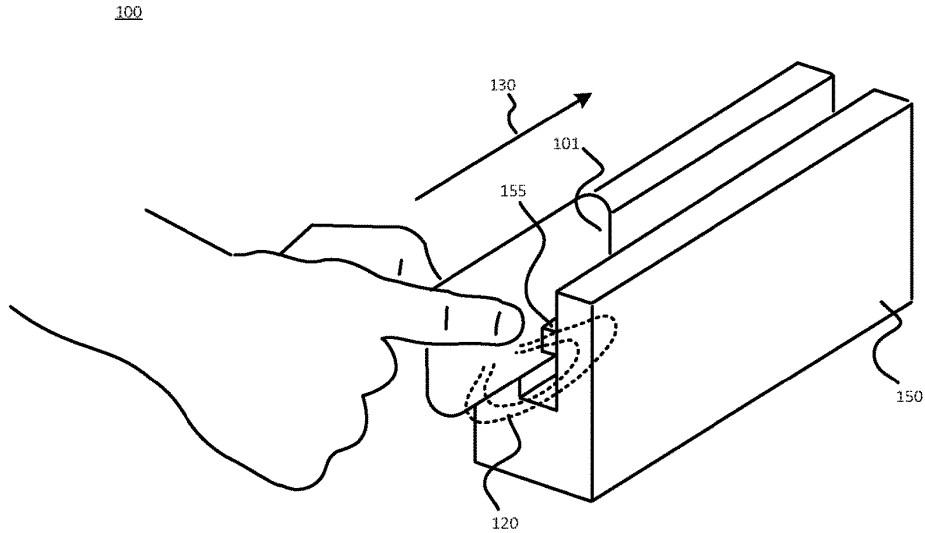


FIG. 1

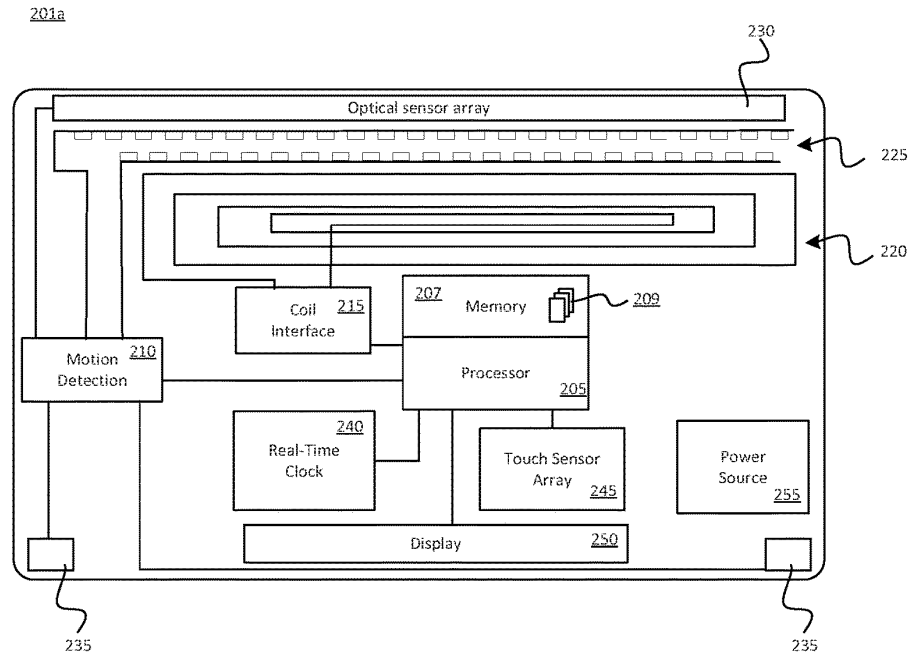


FIG. 2A

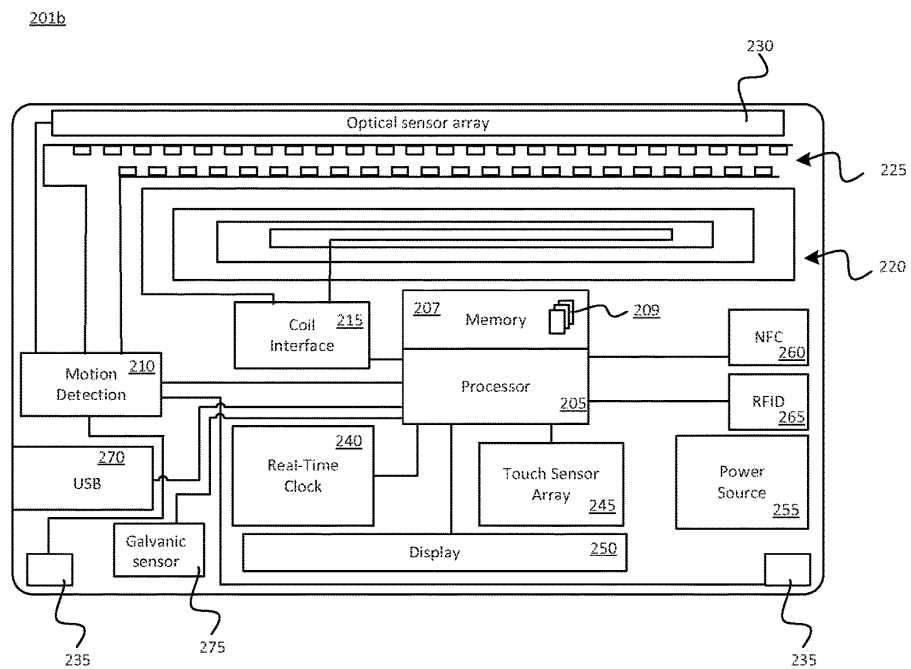


FIG. 2B

280

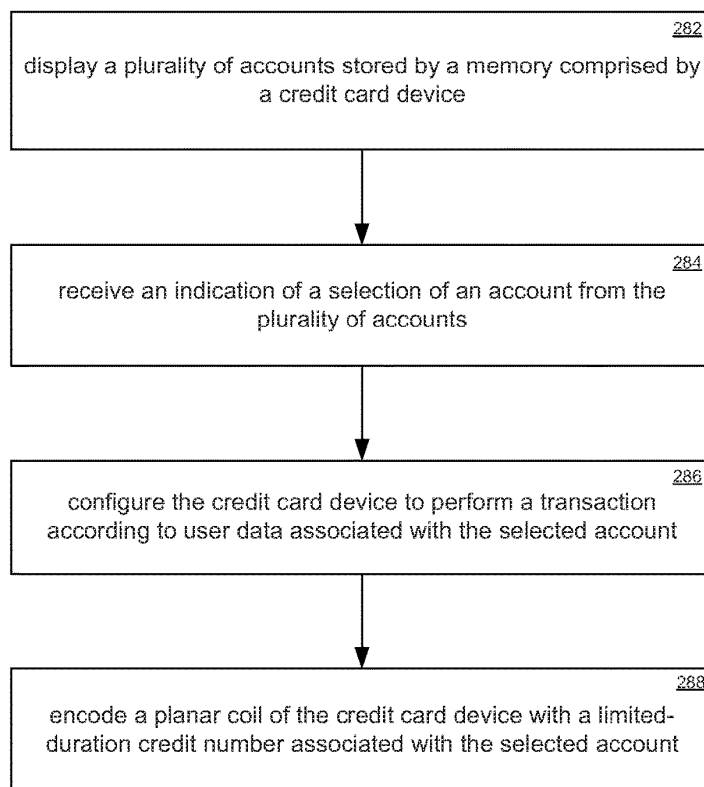


FIG. 2C

300

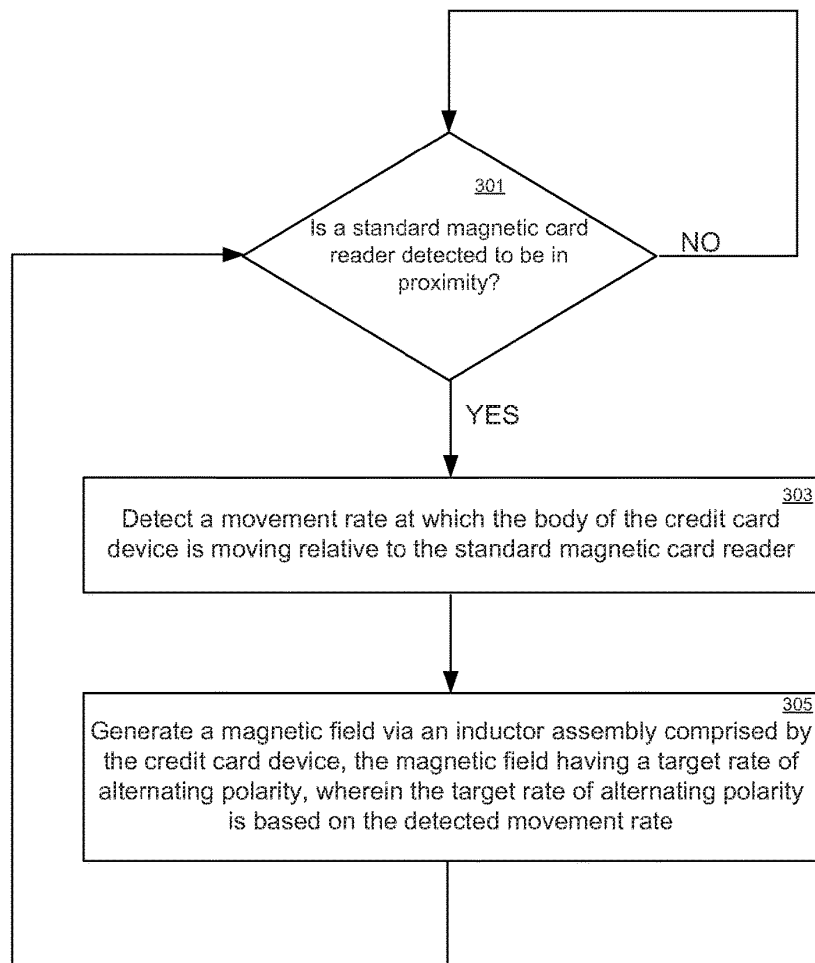


FIG. 3

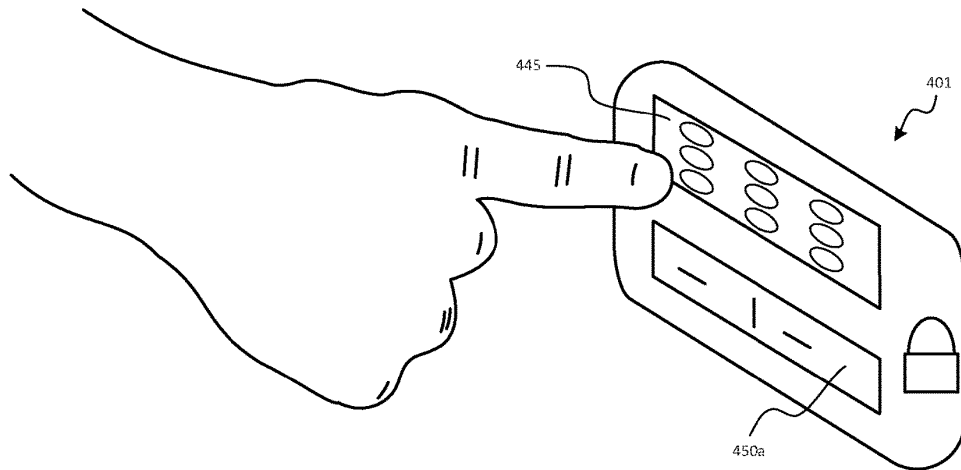


FIG. 4A

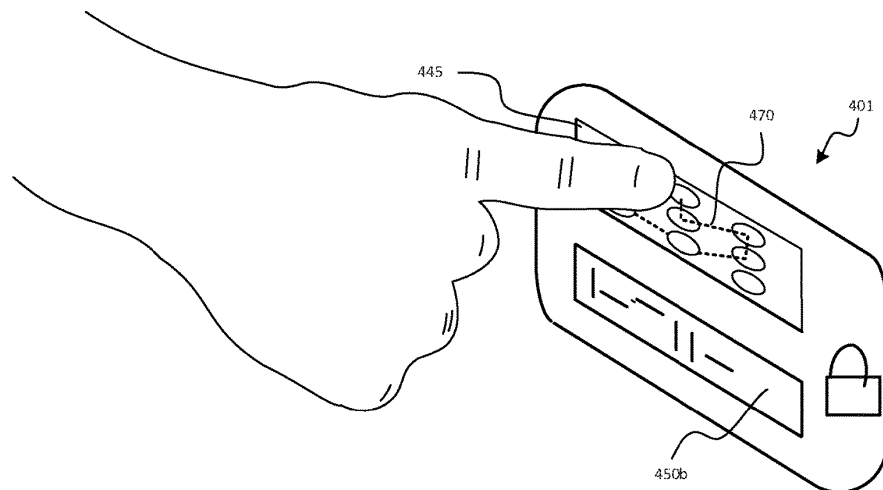


FIG. 4B

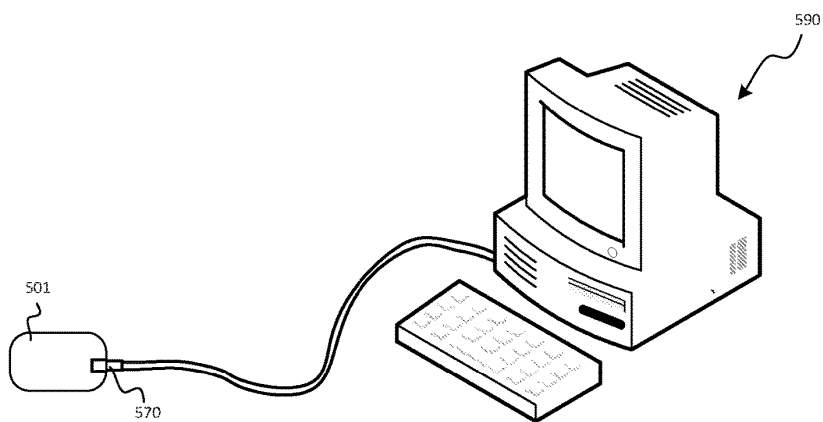


FIG. 5

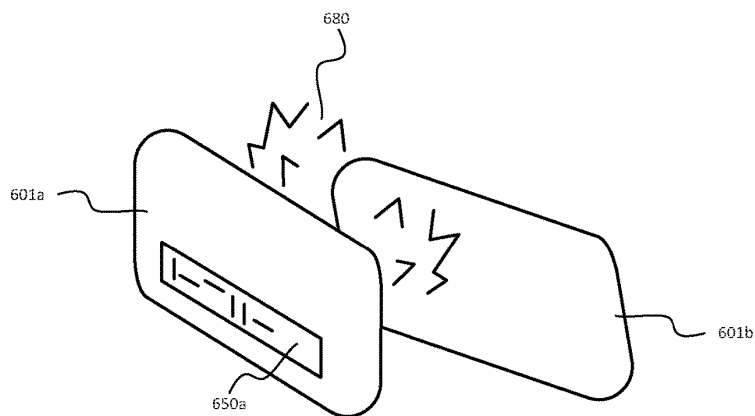


FIG. 6

700

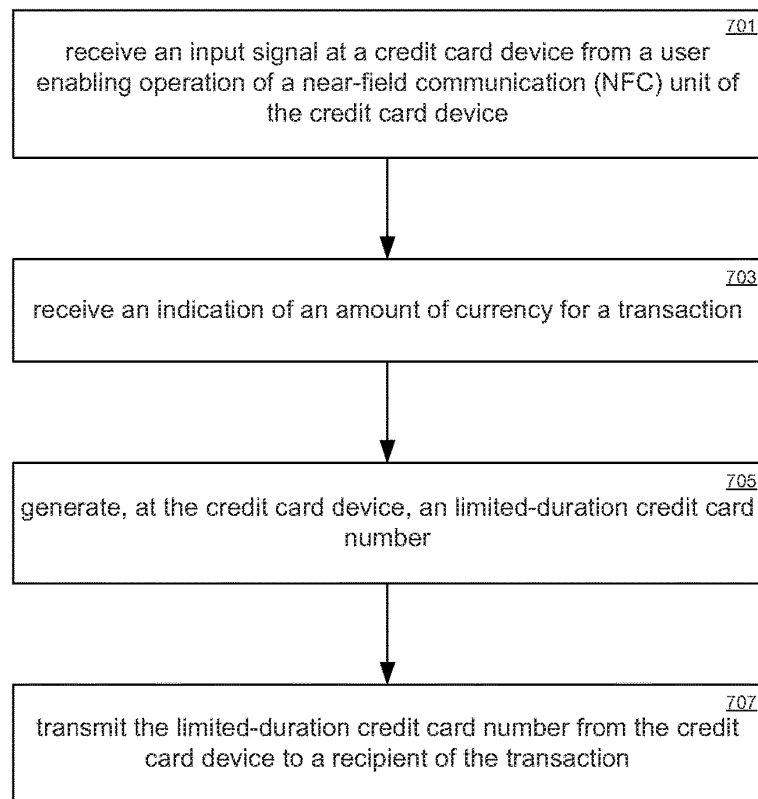


FIG. 7

| Electronic Patent Application Fee Transmittal |          |                                                                                                |        |                      |
|-----------------------------------------------|----------|------------------------------------------------------------------------------------------------|--------|----------------------|
| Application Number:                           |          |                                                                                                |        |                      |
| Filing Date:                                  |          |                                                                                                |        |                      |
| Title of Invention:                           |          | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |        |                      |
| First Named Inventor/Applicant Name:          |          | Davod WYATT                                                                                    |        |                      |
| Filer:                                        |          | Anthony C. Murabito/Mina Oliveri                                                               |        |                      |
| Attorney Docket Number:                       |          | WYAT-0002.USD1C1C1C                                                                            |        |                      |
| Filed as Small Entity                         |          |                                                                                                |        |                      |
| Filing Fees for Utility under 35 USC 111(a)   |          |                                                                                                |        |                      |
| Description                                   | Fee Code | Quantity                                                                                       | Amount | Sub-Total in USD(\$) |
| <b>Basic Filing:</b>                          |          |                                                                                                |        |                      |
| UTILITY FILING FEE (ELECTRONIC FILING)        | 4011     | 1                                                                                              | 75     | 75                   |
| UTILITY SEARCH FEE                            | 2111     | 1                                                                                              | 330    | 330                  |
| UTILITY EXAMINATION FEE                       | 2311     | 1                                                                                              | 380    | 380                  |
| <b>Pages:</b>                                 |          |                                                                                                |        |                      |
| <b>Claims:</b>                                |          |                                                                                                |        |                      |
| CLAIMS IN EXCESS OF 20                        | 2202     | 4                                                                                              | 50     | 200                  |
| <b>Miscellaneous-Filing:</b>                  |          |                                                                                                |        |                      |
| LATE FILING FEE FOR OATH OR DECLARATION       | 2051     | 1                                                                                              | 80     | 80                   |

| Description                              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|------------------------------------------|----------|----------|--------|----------------------|
| <b>Petition:</b>                         |          |          |        |                      |
| <b>Patent-Appeals-and-Interference:</b>  |          |          |        |                      |
| <b>Post-Allowance-and-Post-Issuance:</b> |          |          |        |                      |
| <b>Extension-of-Time:</b>                |          |          |        |                      |
| <b>Miscellaneous:</b>                    |          |          |        |                      |
| <b>Total in USD (\$)</b>                 |          |          |        | <b>1065</b>          |

| Electronic Acknowledgement Receipt          |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>EFS ID:</b>                              | 36468250                                                                                       |
| <b>Application Number:</b>                  | 16459150                                                                                       |
| <b>International Application Number:</b>    |                                                                                                |
| <b>Confirmation Number:</b>                 | 1554                                                                                           |
| <b>Title of Invention:</b>                  | SMART TOKENIZING PAYMENT CARD AND DEVICE AND TRANSACTION PROCESSING THEREOF, SYSTEM AND METHOD |
| <b>First Named Inventor/Applicant Name:</b> | Davod WYATT                                                                                    |
| <b>Customer Number:</b>                     | 136197                                                                                         |
| <b>Filer:</b>                               | Anthony C. Murabito/Mina Oliveri                                                               |
| <b>Filer Authorized By:</b>                 | Anthony C. Murabito                                                                            |
| <b>Attorney Docket Number:</b>              | WYAT-0002.USD1C1C1C                                                                            |
| <b>Receipt Date:</b>                        | 01-JUL-2019                                                                                    |
| <b>Filing Date:</b>                         |                                                                                                |
| <b>Time Stamp:</b>                          | 17:32:39                                                                                       |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                                                                    |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Submitted with Payment                                                                                                                                                                                                                    | yes                   |
| Payment Type                                                                                                                                                                                                                              | EFT                   |
| Payment was successfully received in RAM                                                                                                                                                                                                  | \$1065                |
| RAM confirmation Number                                                                                                                                                                                                                   | 070219INTEFSW17331000 |
| Deposit Account                                                                                                                                                                                                                           | 504160                |
| Authorized User                                                                                                                                                                                                                           | Mina Oliveri          |
| <p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p> <p>37 CFR 1.19 (Document supply fees)</p> |                       |

37 CFR 1.20 (Post Issuance fees)  
37 CFR 1.21 (Miscellaneous fees and charges)

# File Listing:

| Document Number | Document Description   | File Name                             | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
|-----------------|------------------------|---------------------------------------|------------------------------------------|------------------|------------------|
| 1               | Application Data Sheet | WYAT-0002USD1C1C1C_ADS_07-01-2019.pdf | 1793653                                  | no               | 9                |
|                 |                        |                                       | a066a9372591f788b0cb0a47596862f9e5061043 |                  |                  |

## Warnings:

## Information:

|   |  |                                           |                                        |     |    |
|---|--|-------------------------------------------|----------------------------------------|-----|----|
| 2 |  | WYAT-0002USD1C1C1C_CON_APP_07-01-2019.pdf | 174411                                 | yes | 64 |
|   |  |                                           | cd5b79f3cf44ad82286e30fe69c29c9479a73d |     |    |

## Multipart Description/PDF files in .zip description

|  | Document Description | Start | End |
|--|----------------------|-------|-----|
|  | Specification        | 1     | 42  |
|  | Claims               | 43    | 63  |
|  | Abstract             | 64    | 64  |
|  |                      |       |     |

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## Information:

|   |                                             |                                         |                                          |    |   |
|---|---------------------------------------------|-----------------------------------------|------------------------------------------|----|---|
| 3 | Drawings-only black and white line drawings | WYAT-0002_USD1C1C1C_FIGS_07-01-2019.pdf | 179138                                   | no | 7 |
|   |                                             |                                         | 2d22efeff40de6da35fd72e95399212a0511b448 |    |   |

## Warnings:

## Information:

|   |                      |              |                                          |    |   |
|---|----------------------|--------------|------------------------------------------|----|---|
| 4 | Fee Worksheet (SB06) | fee-info.pdf | 38269                                    | no | 2 |
|   |                      |              | 15222c919feab1377b5bc7908d8c457be84be618 |    |   |

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