**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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| Appl. No. | : | |
| Applicant | : | Telcom Ventures, LLC |
| Filed | : | October 18, 2023 |
| Art Unit | : | |
| Examiner | : | |
| Confirmation No. | : | |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**INFORMATION DISCLOSURE STATEMENT (IDS)**

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

Dear Commissioner:

Pursuant to 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the filing date of the present application (37 C.F.R. § 1.97(b)(1)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. In accordance with 37 C.F.R. §1.98(a)(2) and §1.98(d), a copy of each foreign patent and/or a copy of each publication, other than U.S. patents and U.S. patent application publications has been provided only for those items listed on the enclosed Form PTO/SB/08 that have not previously been cited by or submitted to the U.S. Patent and Trademark Office in parent application nos., 18/450,517, filed August 16, 2023, 17/653,748, filed March 7, 2022, 15/929,609, filed May 12, 2020, 16/012,513, filed June 19, 2018,

15/800,885, filed November 1, 2017, 15/251,882, filed August 30, 2016, and 12/264,711, filed November 4, 2008.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references.

Customer No. 138517

Respectfully submitted,

Date: October 18, 2023

/Aaron W. Pederson/
Aaron W. Pederson
Registration No.: 58,607

Tel No. (612) 436-9609

Attorneys for Applicant
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St., Ste. 4200
Minneapolis, Minnesota 55402

PTO/SB/08a (01-22)
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| **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( **Not for submission under 37 CFR 1.99)** | | |
|---|---|---|
| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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| | 1 | "Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017) | ☐ |
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| | Attorney Docket Number | 1348.002US9 |

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**EXAMINER SIGNATURE**

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

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| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

**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 | /Aaron Pederson/ | Date (YYYY-MM-DD) | 2023-10-18 |
|---|---|---|---|
| Name/Print | Aaron Pederson | Registration Number | 58607 |

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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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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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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|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

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

## Inventor Information:

**Inventor 1** Remove

**Legal Name**

| Prefix | Given Name | Middle Name | Family Name | Suffix |
|---|---|---|---|---|
| | Peter | D. | Karabinis | |

**Residence Information (Select One)** ◉ US Residency ○ Non US Residency ○ Active US Military Service

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|---|---|---|---|---|---|

**Mailing Address of Inventor:**

| | |
|---|---|
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| City | Cary | State/Province | NC |
|---|---|---|---|
| Postal Code | 27511 | Country | US |

**Inventor 2** Remove

**Legal Name**

| Prefix | Given Name | Middle Name | Family Name | Suffix |
|---|---|---|---|---|
| | Rajendra | | Singh | |

**Residence Information (Select One)** ◉ US Residency ○ Non US Residency ○ Active US Military Service

| City | Indian Creek Village | State/Province | FL | Country of Residence | US |
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**Mailing Address of Inventor:**

| | |
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| City | Indian Creek Village | State/Province | FL |
|---|---|---|---|
| Postal Code | 33154 | Country | US |

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

## Correspondence Information:

**Enter either Customer Number or complete the Correspondence Information section below.**
**For further information see 37 CFR 1.33(a).**

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| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

| ☐ **An Address is being provided for the correspondence Information of this application.** | | | |
|---|---|---|---|
| **Customer Number** | 138517 | | |
| **Email Address** | docketing@carlsoncaspers.com | Add Email | Remove Email |

## Application Information:

| **Title of the Invention** | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | | |
|---|---|---|---|
| **Attorney Docket Number** | 1348.002US9 | **Small Entity Status Claimed** | ☒ |
| **Application Type** | Nonprovisional | | |
| **Subject Matter** | Utility | | |
| **Total Number of Drawing Sheets (if any)** | 3 | **Suggested Figure for Publication (if any)** | |

## 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: | ◉ Customer Number | ○ US Patent Practitioner | ○ Limited Recognition (37 CFR 11.9) |
|---|---|---|---|
| Customer Number | 138517 | | |

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## 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 | | Remove |
|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |
| | Continuation of | 18450517 | 2023-08-16 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 18450517 | Continuation of | 17653748 | 2022-03-07 | 11770756 | 2023-09-26 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 17653748 | Continuation of | 15929609 | 2020-05-12 | 11304118 | 2022-04-12 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15929609 | Continuation of | 16012513 | 2018-06-19 | 10660015 | 2020-05-19 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 16012513 | Division of | 15800885 | 2017-11-01 | 10219199 | 2019-02-26 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15800885 | Continuation of | 15251882 | 2016-08-30 | 9832708 | 2017-11-28 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15251882 | Continuation of | 12264711 | 2008-11-04 | 9462411 | 2016-10-04 |

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## Foreign Priority Information:

| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

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

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| Application Number | Country[i] | Filing Date (YYYY-MM-DD) | Access Code[i] (if applicable) |
|---|---|---|---|
| | | | |

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

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

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## 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.

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## Applicant Information:

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

**Applicant 1** Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

| | | |
|---|---|---|
| (•) 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:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. [X]

| | |
|---|---|
| Organization Name | Telcom Ventures LLC |

**Mailing Address Information For Applicant:**

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|---|---|---|---|
| **Address 1** | 200 South Biscayne Blvd., 40th Floor | | |
| Address 2 | | | |
| **City** | Miami | **State/Province** | FL |
| **Country** | US | Postal Code | 33131 |
| Phone Number | | Fax Number | |
| Email Address | | | |

Additional Applicant Data may be generated within this form by selecting the Add button. Add

## Assignee Information including Non-Applicant Assignee Information:

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

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| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

**Assignee 1**

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

| Prefix | **Given Name** | Middle Name | **Family Name** | Suffix |
|---|---|---|---|---|
| | | | | |

**Mailing Address Information For Assignee including Non-Applicant Assignee:**

| | | | |
|---|---|---|---|
| **Address 1** | | | |
| Address 2 | | | |
| **City** | | **State/Province** | |
| **Country** i | | Postal Code | |
| Phone Number | | Fax Number | |
| Email Address | | | |

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

## Signature:

Remove

**NOTE:** This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

| **Signature** | /Aaron Pederson/ | | | Date (YYYY-MM-DD) | 2023-10-18 |
|---|---|---|---|---|---|
| First Name | Aaron | Last Name | Pederson | Registration Number | 58607 |

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| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

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:

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 CooperationTreaty.

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.

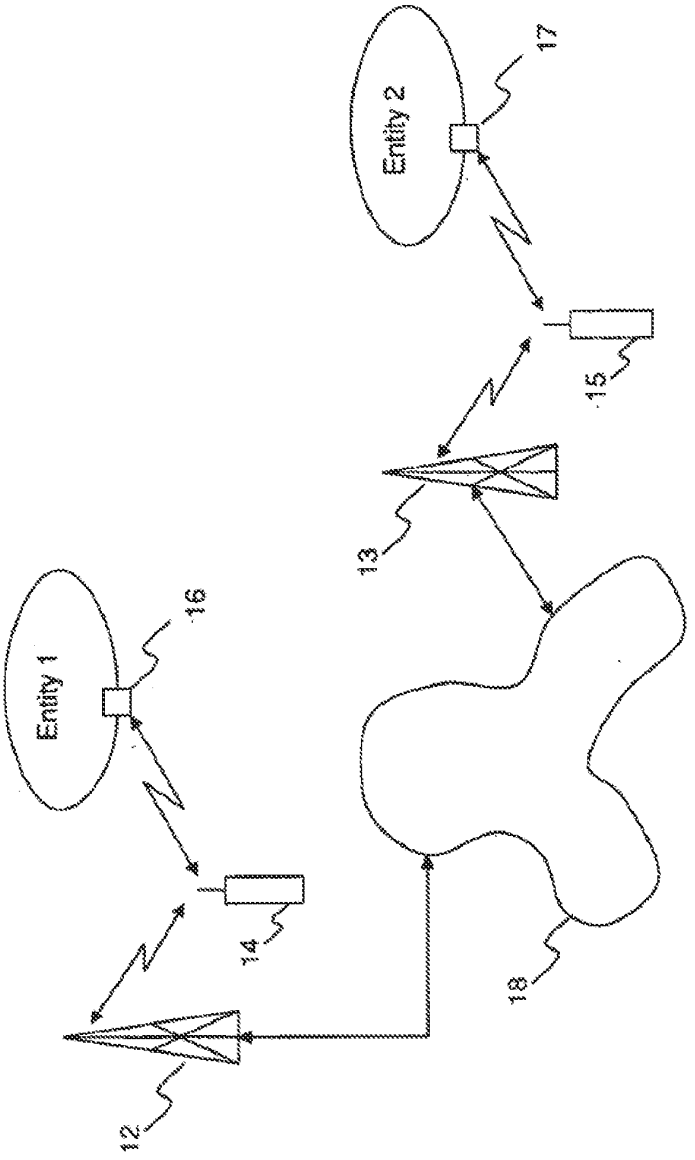



FIG. 1

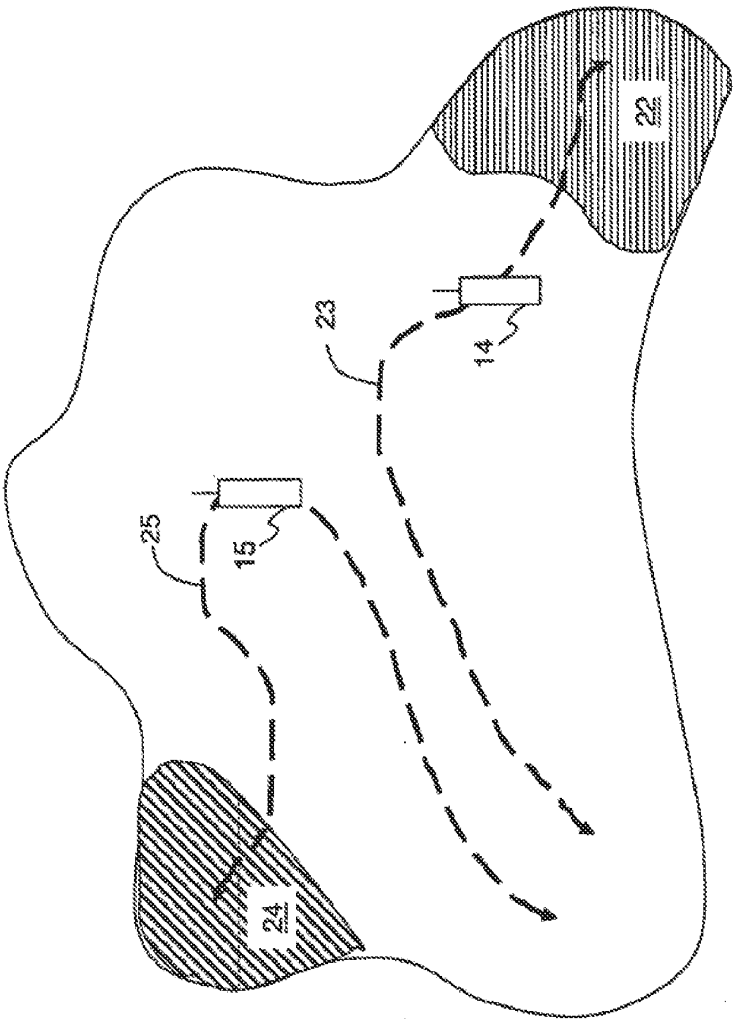
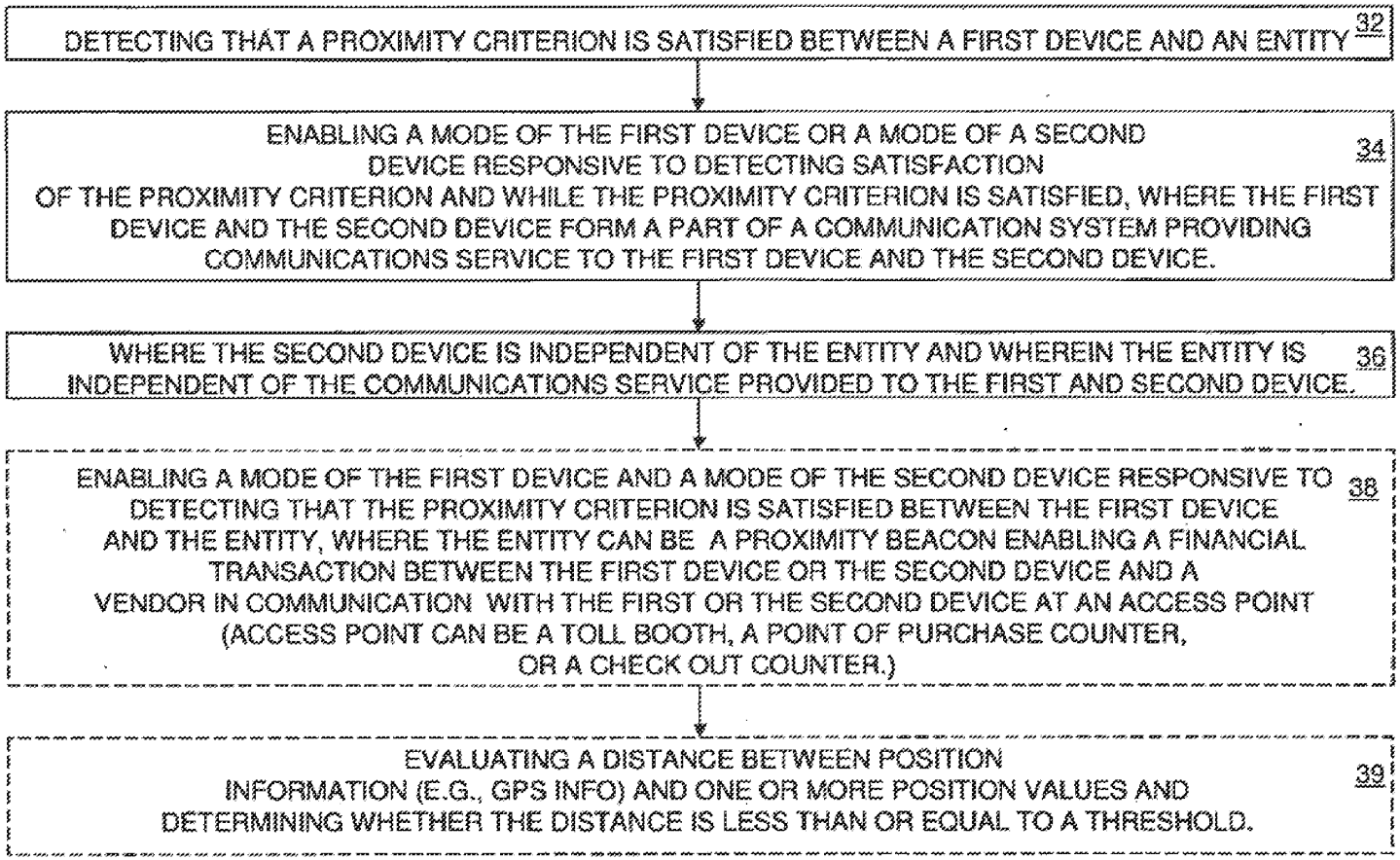



FIG. 2

FIG. 3 30


DETECTING THAT A PROXIMITY CRITERION IS SATISFIED BETWEEN A FIRST DEVICE AND AN ENTITY
32
ENABLING A MODE OF THE FIRST DEVICE OR A MODE OF A SECOND DEVICE RESPONSIVE TO DETECTING SATISFACTION OF THE PROXIMITY CRITERION AND WHILE THE PROXIMITY CRITERION IS SATISFIED, WHERE THE FIRST DEVICE AND THE SECOND DEVICE FORM A PART OF A COMMUNICATION SYSTEM PROVIDING COMMUNICATIONS SERVICE TO THE FIRST DEVICE AND THE SECOND DEVICE.
34
WHERE THE SECOND DEVICE IS INDEPENDENT OF THE ENTITY AND WHEREIN THE ENTITY IS INDEPENDENT OF THE COMMUNICATIONS SERVICE PROVIDED TO THE FIRST AND SECOND DEVICE.
36
ENABLING A MODE OF THE FIRST DEVICE AND A MODE OF THE SECOND DEVICE RESPONSIVE TO DETECTING THAT THE PROXIMITY CRITERION IS SATISFIED BETWEEN THE FIRST DEVICE AND THE ENTITY, WHERE THE ENTITY CAN BE A PROXIMITY BEACON ENABLING A FINANCIAL TRANSACTION BETWEEN THE FIRST DEVICE OR THE SECOND DEVICE AND A VENDOR IN COMMUNICATION WITH THE FIRST OR THE SECOND DEVICE AT AN ACCESS POINT (ACCESS POINT CAN BE A TOLL BOOTH, A POINT OF PURCHASE COUNTER, OR A CHECK OUT COUNTER.)
38
EVALUATING A DISTANCE BETWEEN POSITION INFORMATION (E.G., GPS INFO) AND ONE OR MORE POSITION VALUES AND DETERMINING WHETHER THE DISTANCE IS LESS THAN OR EQUAL TO A THRESHOLD.
39

# MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Cross-Reference to Related Application

**[0001]** The present application is a continuation of U.S. Application No. 18/450,517, filed August 16, 2023 which is itself a continuation of U.S. Application No. 17/653,748, filed March 7, 2022, now U.S. Patent No. 11,770,756, which is itself a continuation of U.S. Application No. 15/929,609, filed May 12, 2020, now U.S. Patent No. 11,304,118, which is itself a continuation of U.S. Application No. 16/012,513, filed June 19, 2018, now U.S. Patent No. 10,660,015, which is itself a divisional of U.S. Application No. 15/800,885, filed November 1, 2017, now U.S. Patent No. 10,219,199, which is itself a continuation of U.S. Application No. 15/251,882, filed August 30, 2016, now U.S. Patent No. 9,832,708, which is itself a continuation of U.S. Application No. 12/264,711, filed November 4, 2008, now U.S. Patent No. 9,462,411. The disclosures of which are hereby incorporated herein by reference as if set forth fully herein.

## Field of the Invention

**[0002]** This invention relates to systems, devices and/or methods that may be used to provide an adaptive enablement of one or more communications modes based upon having satisfied a proximity criterion. The one or more communications modes may be one or more wireless and/or non-wireless communications modes.

## Background of the Invention

**[0003]** Adaptivity and mobility aspects of wireless communications are becoming more important in people's lives. People are relying more and more on mobile wireless devices to perform an ever-increasing suite of functions such as, for example, navigation, e-mail, web surfing, streaming video, etc. However, there is a rigidity aspect that is associated with wireless mobile devices in that a wireless mobile device is typically configured to be capable of performing a predetermined number of functions independent of its location, Time-of-Day (ToD), velocity,

acceleration, temperature, sensing of a signal, etc. It would, for example, be desirable to have a mobile wireless device act as a "wallet" (over and above other functions) only when it is time to pay for an item and not act as a wallet when there is no need to do so.

**[0004]** The present invention, addresses these limitations (i.e., the rigidity) of current wireless mobile devices. Accordingly, embodiments of the present invention provide systems, devices and/or methods that may be used to enable adaptively one or more modes/functions of a device based upon having satisfied by the device (or another device) a proximity condition/criterion.

**[0005]** As used herein, the term "end-user device," "wireless mobile device," "mobile wireless device" or simply "device" includes any electronic device that may be used to transmit/receive information wirelessly and/or non-wirelessly such as, for example, a Digital Subscriber Line (DSL) modem/transceiver; a cable modem/transceiver; a cellular and/or satellite radiotelephone with or without a multi-line display; Personal Communications System (PCS) terminals that may combine a radiotelephone with data processing, facsimile and/or data communications capabilities; Personal Digital Assistants (PDA) that can include a radio frequency transceiver and/or a pager, Internet/Intranet access, Web browser, organizer, calendar and/or a global positioning system (GPS) receiver; laptop and/or palmtop computers or other appliances, which may (or may not) include a radio frequency transceiver.

**[0006]** An end-user device also may be referred to herein as a radiotelephone, radioterminal, mobile terminal, user device, wireless device, device and/or terminal; etc. As used herein, the term end-user device and/or any of its synonyms also include(s) any other radiating device/equipment/source that may have time-varying or fixed geographic coordinates and/or may be portable, transportable, installed in a vehicle (aeronautical, maritime, or land-based) and/or situated and/or configured to operate locally and/or in a distributed fashion over one or more terrestrial and/or extra-terrestrial location(s).

**Brief Description of the Drawings**

**[0007]** FIG. 1 depicts a communication system that detects a proximity criterion in accordance with the claimed embodiments;

**[0008]** FIG. 2 depicts another communication system that detects a proximity criterion in accordance with the claimed embodiments;

**[0009]** FIG. 3 is a flow chart illustrating a method of detecting proximity criterion and enabling functions or modes on devices in accordance with the claimed embodiments.

**Detailed Description**

**[0010]** The present invention now will be described more fully hereinafter with reference to specific embodiments and/or the accompanying drawing(s), in which embodiments of the invention are shown. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art.

**[0011]** It will be understood that when an element is referred to as being "connected," "coupled" and/or "responsive" to another element, it can be directly connected, coupled and/or responsive to the other element or intervening elements may be present. Furthermore, "connected," "coupled" and/or "responsive" as used herein may include wirelessly connected, coupled and/or responsive. The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the invention. As used herein, the singular forms "a," "an" and/or "the" are intended to include the plural forms as well, unless expressly stated otherwise. It will be further understood that the terms "includes," "comprises," "including" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence and/or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

**[0012]** Unless otherwise defined, all terms (including technical and scientific terms) used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. It will be further understood that terms, such as those defined in commonly used dictionaries, should be interpreted as having a meaning that is consistent with their meaning in the context of the relevant art and the present disclosure, and will not be interpreted in an idealized or overly formal sense unless expressly so defined herein.

**[0013]** Furthermore, it will be understood that although terms such as, for example, first and second may be used herein to describe various elements, these elements should not be limited by these terms. These terms are only used to distinguish one element from another element. Thus, a first element below could be termed a second element, and similarly, a second element may be termed a first element without departing from the teachings of the present invention. As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items. The symbol "/" is also used as a shorthand notation for "and/or."

**[0014]** A mobile device such as, for example, a wireless communications device (e.g., a wireless terminal, a wireless/mobile phone, a Personal Digital Assistant (PDA), a smart phone, a multi-media device including Global Positioning System (GPS) capability, etc.) and/or one or more systems that is/are providing service to the mobile device and/or to a device other than the mobile device, may be configured to enable one or more modes/functions of the mobile device and/or of the device other than the mobile device, responsive to a proximity criterion having been satisfied.

**[0015]** In some embodiments, determining whether the proximity criterion is satisfied comprises determining by the mobile device and/or by the one or more systems of a location associated with the mobile device. In other embodiments, determining whether the proximity criterion is satisfied comprises determining by the device other than the mobile device and/or by the one or more systems of a location that is associated with the device other than the mobile device. The determining by the mobile device, by the device other than the mobile device and/or by the one or more systems may, in some embodiments, comprise reception and/or processing of

GPS signals in order to determine a Time-of-Day (ToD), Time-of-Month (ToM), Time-of-Year (ToY), velocity, acceleration and/or position (in three-dimensional space). In other embodiments, the determining may be based upon the mobile device and/or the device other than the mobile device detecting a signal that is being radiated by a device that is attached to and/or is installed in/on an entity (i.e., a device that is associated with the entity). In still further embodiments, the device other than the mobile device may send a message to the mobile device requesting enablement of one or more modes/functions of the mobile device and/or of the device other than the mobile device and, responsive to an affirmative response by the mobile device, the mobile device and/or the device other than the mobile device may enable the one or more modes/functions of the mobile device and/or of the device other than the mobile device.

**[0016]** The entity may, for example, be a person, an animal, a vehicle (ground-based, maritime and/or aeronautical), a building (residential, commercial and/or office), a product that is for sale, a store that sells one or more products, a check-out counter in a store, a shopping cart that may be used by a customer to carry one or more products selected by the customer for purchase, one or more locations in time and/or space, a geographic area and/or a multi-dimensional region in time and/or space.

**[0017]** The signal that is being radiated by the device that is attached to and/or is installed in the entity may include an element that may be *a priori* known by the mobile device and/or by the device other than the mobile device. As such, according to some embodiments, the mobile device and/or the device other than the mobile device may, when proximate to the entity, receive the signal that is being radiated by the device that is attached to and/or is installed in the entity, detect the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device and thus determine that the mobile device and/or the device other than the mobile device is proximate to the entity.

**[0018]** It will be understood that the signal that is being radiated by the device that is attached to and/or is installed in the entity may be radiated at a relatively low power level so that it may be detected by the mobile device and/or by the device other

than the mobile device only over a relatively small distance between, for example, the mobile device and the device that is attached to and/or is installed in the entity (e.g., over a distance that is, for example, less than 100 meters, in some embodiments or less than 10 meters, in other embodiments). It will also be understood that the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device may comprise an identity associated with the entity. In some embodiments, the identity may comprise a number, a word/name, a location, a Time-of-Day (ToD), a unique code, a region of space and/or time, etc.

**[0019]** According to some embodiments, the mobile device and/or the device other than the mobile device may be configured so that a user of the mobile device and/or a user of the device other than the mobile device, a service provider providing service to the mobile device and/or providing service to the device other than the mobile device and/or a manufacturer of the mobile device and/or the device other than the mobile device may program the mobile device and/or the device other than the mobile device to recognize the element and/or the identity associated with the entity.

**[0020]** A number of examples/applications of the concepts disclosed above will now be described to further illustrate the scope and spirit of the present invention to those skilled in the art.

**[0021]** **Example/Application No. 1:** A motor vehicle, such as, for example, a car, may be configured with a low-power radiator that radiates a signal that includes an identity of the motor vehicle, a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or an indication of a content of the motor vehicle. Now imagine a person who is associated with the motor vehicle (e.g., an owner/driver of the motor vehicle) is approaching the motor vehicle. Let us assume that the person who is approaching the motor vehicle and is associated with the motor vehicle carries a wireless communications device. The wireless communications device may be configured to sense the signal that is being radiated by the low-power radiator, detect the identity of the motor vehicle and compare the detected identity with one or more *a priori* identities that are stored in the wireless communications

device. If a match is found, the communications device may be configured to selectively enable, responsive to the match, for example, a "pay toll" function. Accordingly, as the motor vehicle approaches an access point that is configured to radiate a signal associated with toll collection, the communications device, responsive to having detected the signal associated with toll collection, may be configured to transmit information that may be used by the access point and/or by an associated toll collection system that may be connected to the access point to debit an account that is associated with a user and/or owner of the communications device. In further embodiments of the present invention, if the match is found, the communications device may be configured to selectively enable, responsive to the match and responsive to a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or a content of the motor vehicle, for example, the "pay toll" function. It will be understood that the velocity of the motor vehicle, the acceleration of the motor vehicle, the position of the motor vehicle, the ToD, the ToM and/or the ToY may be provided by the communications device (based on GPS signal processing, and/or based on any other means, that may be performed/implemented by the communications device and/or by a network that may be providing service to the communications device) and/or by the motor vehicle.

**[0022]** The wireless communications device may be configured to keep the pay toll function enabled for as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator (i.e., the signal that includes an identity of the motor vehicle) and to selectively disable the pay toll function a short time after the wireless communications device is no longer able to sense the signal that is being radiated by the low-power radiator. In further embodiments, the wireless communications device may be configured to keep the pay toll function enabled as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator and a specific value (or values) associated with at least one of a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a ToD, a ToM, a ToY and a content of the motor vehicle is/are being met/satisfied.

**[0023]** In accordance with some embodiments, even though the wireless communications device does not find a match but is able to sense the signal that is being radiated by the low-power radiator, the wireless communications device may be configured to provide a notification (e.g., a sound, a vibration, a light and/or an alpha-numeric display, etc.). Responsive to the notification, a user of the wireless communications device may instruct (for example, manually or via voice command) the wireless communications device to enable the pay toll function.

**[0024]** In further embodiments, a second wireless communications device that belongs to and/or is being used by a second person, senses a signal and, responsive to having sensed the signal (whether a match is found or not) sends a request selectively to a first wireless communications device. Responsive to the request, the first wireless communications device sends an acknowledgement and/or an authorization to the second wireless communications device. Responsive to the acknowledgement and/or authorization the second wireless communications device selectively enables a mode which, according to some embodiments, is the pay toll function. It will be understood that the first and second wireless communications devices may, according to some embodiments, be predetermined to function as described above. That is, the first wireless communications device acting as a "master" and the second wireless communications device acting as a "slave" in that the second wireless communications device is configured to enable a mode/function thereof responsive to a detection/match and responsive to receiving an authorization from the first wireless communications device. If the mode/function comprises paying for a transaction, an amount of money associated with the paying may be deducted/withdrawn from an account associated with an owner/user of the first wireless communications device.

**[0025]** Thus, according to some embodiments, the first wireless communications device functions independently and/or autonomously whereas the second wireless communications device functions dependently on the first wireless communications device, at least as far as at least one of its modes/functions is concerned. The master-slave relationship between the first and second wireless communications devices may, according to some embodiments, be predetermined. In other embodiments, the master-slave relationship may not be predetermined and may be negotiated and/or

established, as a need for such a relationship arises, by exchanging information between the first and second wireless communications devices. It will be understood that, in some embodiments, at least one of the first and second wireless communications devices may not be a wireless communications device.

**[0026]** **Example/Application No. 2:** A wireless communications device may be configured to estimate a location associated therewith and may also be configured to estimate a value of at least one other parameter that may be associated with the wireless communications device, an environment thereof and/or an entity (living or otherwise) that is associated with and/or is proximate to the wireless communications device. The "at least one other parameter" may, for example, be a velocity, acceleration, ToD, ToM, ToY, humidity, temperature, height, level of brightness, level of darkness, a blood pressure, a heart rate, a blood content, a physiological state, a psychological state, etc. As those skilled in the art will appreciate, the wireless communications device may be configured to estimate its location and the value of the "at least one other parameter" by, for example, processing GPS signals and/or by using other means and/or sensors that may, according to some embodiments, be device-based and/or network assisted/based means and/or sensors.

**[0027]** According to some embodiments, the wireless communications device may be configured to make a comparison between an estimate of its location and one or more other locations, that may be one or more other predetermined and/or pre-stored locations, and the wireless communications device may be configured to selectively enable a first communications mode/function responsive to an outcome of the comparison and/or to selectively disable a second communications mode/function responsive to the outcome of the comparison. In other embodiments, the wireless communications device may be configured to selectively enable the first communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list and/or selectively disable the second communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list.

**[0028]** For example, in some embodiments, if a comparison between an estimate of location of the wireless communications device and the one or more locations that are predetermined and/or pre-stored reveals a distance therebetween that is less than or equal to a threshold, the wireless communications device may be configured to selectively and/or preferentially enable a first communications mode, that may be one communications mode of a plurality of communications modes, that uses, for example, a first air interface protocol and a first set of frequencies to communicate information wirelessly (wherein the first set of frequencies may be a predetermined first set of frequencies), while refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode, of the plurality of communications modes, comprising a second set of frequencies and/or a second air interface protocol. In some embodiments, refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode comprises selectively and/or preferentially disabling the second communications mode that uses, for example, the second air interface protocol and/or the second set of frequencies. It will be understood that, according to some embodiments, the first and/or second air interface protocols may be predetermined and that the first and/or second set of frequencies may also be predetermined. In further embodiments, at least one of the first air interface protocol, the second air interface protocol, the first set of frequencies and the second set of frequencies may not be predetermined and may be determined as required responsive to receiving a message, sensing/detecting at least a portion of an electro-magnet spectrum and/or via other means such as, for example, a user choice/preference/command.

**[0029]** In some embodiments, the first communications mode may comprise an air interface protocol, such as, for example, an Orthogonal Frequency Division Multiplexed and/or an Orthogonal Frequency Division Multiple Access (OFDM/OFDMA) protocol, a WiFi- and/or WiMAX-based air interface protocol that may be based upon Time Division Duplex (TDD) operation wherein a common set of frequencies are used bi-directionally (at different times) to provide uplink and

downlink communications, and the first and/or second set of frequencies may comprise, for example, an un-licensed use and/or a licensed use set of frequencies.

**[0030]** In further embodiments, the wireless communications device may further be configured to selectively enable (or to prefer) a first communications mode and/or to selectively refrain from using (or avoid from using unless a level of priority and/or other reason is provided) a second communications mode, responsive to the comparison of position that was discussed earlier and/or responsive to a value of a quantity/parameter, such as, for example, a value associated with the "at least one other parameter" and/or responsive to an event (man-caused or natural). The first communications mode may comprise a first air interface protocol and a first set of frequencies for transmission/reception of information and the second communications mode may comprise a second air interface protocol, that may be different from the first air interface protocol, and/or a second set of frequencies for transmission and/or reception of information that may be different (or at least partially different) from the first set of frequencies.

**[0031]** The wireless communications device may be configured to repeatedly make a decision based on the comparison of position that was discussed earlier, based on the value of a quantity/parameter, such as, for example, a value associated with the "at least one other parameter" and/or based on the event (man-caused and/or natural), to maintain the first communications mode enabled and/or to maintain the second communications mode disabled for as long as the comparison of position, the value of the quantity/parameter and/or the event (man-caused and/or natural) continues to satisfy a threshold criterion and to disable the first communications mode and/or enable the second communications mode after the wireless communications device determines that the comparison of position, the value of the quantity/parameter and/or the event no longer satisfies the threshold criterion.

**[0032]** In further embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to send information (automatically or upon user command) selectively to one or more other devices that, according to some embodiments, may be predetermined other devices. In still other

embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to receive information (automatically or upon user command) selectively from one or more other devices that, according to some embodiments, may be predetermined other devices.

**[0033]** **Example/Application No. 3:** A shopping cart, for example, of the type used in a grocery and/or super-market store, may be configured to sense/detect one or more items that are placed in the shopping cart. As used herein, the term "configured to sense/detect" may, in some embodiments, comprise sensing/detecting, for example, a weight, a manufacturer, an expiration date, a price and/or a nutritional value, etc. associated with the one or more items, wherein the sensing/detecting may be performed based upon any technology, such as, for example, a Radio Frequency (RF) tagging technology, a bar-code technology, an image recognition technology and/or any other technology.

**[0034]** Each shopping cart may include an identity (e.g., a number). Mr. Jones (a customer), who chooses a shopping cart having as identity a number such as, for example, "8787," may insert the number 8787 into a wireless communications device that Mr. Jones is carrying/using. Upon inserting the number 8787 into the wireless communications device, the wireless communications device may be configured to selectively establish a communications link, that may, in some embodiments, be a short-range communications link, with the shopping cart having identity 8787. From that time on, as the shopping cart senses/detects the one or more items that are placed in the shopping cart, information associated with the sensing/detecting of the one or more items, including price information associated with the one or more items, is transferred to Mr. Jones' wireless communications device via the communications link that is selectively established between Mr. Jones' wireless communications device and shopping cart 8787.

**[0035]** In the event that Mr. Jones decides to put back on a shelf an item that has been placed in shopping cart 8787, that item is sensed/detected by the shopping cart as having been withdrawn/deleted from the shopping cart and at least some information associated therewith is withdrawn/deleted, or at least changed, from Mr.

Jones' wireless communications device via one or more commands/messages sent to the wireless communications device by the shopping cart, via the communications link.

**[0036]** When Mr. Jones has finished shopping, Mr. Jones can examine the wireless communications device and may instruct the wireless communications device to perform a transaction, such as, for example, to pay for the one or more items that Mr. Jones has placed in shopping cart 8787. In some embodiments, the shopping cart including the one or more items and the wireless communications device may need to be proximate to a specific location within the grocery and/or super market store (e.g., proximate to a "check-out" counter/location) before the wireless communications device and/or shopping cart (individually and/or jointly in communication therebetween) may enable a "pay" function by detecting a (short-range) signal that may be transmitted by/from the specific location.

**[0037]** **Other Embodiments:** Figures 1 and 2 illustrate further embodiments of the present invention. Additional embodiments may comprise systems and/or methods. For example, in one embodiment as illustrated in FIG. 1, a method in a system 10 is provided comprising: detecting that a proximity criterion is satisfied between a first device 14, such as a mobile subscriber device, and Entity 1; and enabling a mode of the first device and/or a mode of a second device 15 responsive to the detecting; where, according to some embodiments, the second device 15 is not the Entity 1 and is not associated with the Entity 1 and wherein the Entity 1 is not involved in providing a communications service to the first and/or second device. In one particular embodiment, a mobile subscriber device 14 linked to a communications system 18 via base station 12 can enable a function when the device 14 comes within a proximity of Entity 1. The function enabled can be any number of functions at the mobile subscriber device 14 or even at the mobile subscriber device 15. The mobile subscriber device 15 can also be linked to the communications system 18 via a base station 13. The function enabled can be a financial transaction, the transmission of communications, such as data, and/or some other function that may provision the mobile subscriber device 14 and/or the mobile subscriber device 15

with additional functionality not previously available/activated at the respective devices.

**[0038]** In one embodiment, the detection by mobile subscriber device 14 of a proximity criterion relative to Entity 1 can enable the mobile subscriber device 14 to authorize and complete a financial transaction such as the payment of a toll and/or of an item at a check out line. The same detection by mobile subscriber device 14 of the proximity criterion relative to Entity 1 can also or alternatively enable the mobile subscriber device 15 to authorize and complete a financial transaction such as the payment of a toll and/or a payment for an item at a check out line. The enablement of the mobile subscriber device 15 may also be contingent on the mobile subscriber device 15 having satisfied a proximity criterion relative to a second entity, such as Entity 2. Thus, the proximity criterion can include various requirements depending on the particular application. The requirements may include at least one of having the device 14 being within a predetermined distance of Entity 1, the device 14 receiving a predetermined signal strength from Entity 1, being at such predetermined distance for a predetermined time interval and receiving a predetermined signal strength during the predetermined time interval. The requirements can also include having device 15 being within a predetermined distance and/or predetermined signal strength of Entity 2, and/or being within such predetermined distance and/or signal strength during a predetermined time interval. It will be understood that at least one of devices 16 and 17, shown in FIG. 1 as being attached to Entity 1 and Entity 2, respectively, may, according to some embodiments, comprise a wireless transmitter and/or receiver.

**[0039]** According to some embodiments, the detecting may be performed by the first device (i.e., radioterminal 14), by the second device (i.e., radioterminal 15), by a device that is associated with an entity (i.e., device 16 and/or device 17) and/or by a system that is associated with the first and/or second devices (i.e., system 18, base station 12 and/or base station 13). Also, in some embodiments, the enabling may be performed by the first device, by the second device, by a device that is associated with the entity and/or by a system that is associated with the first and/or second devices.

**[0040]** In some embodiments, the first device comprises a wireless communications device, the second device comprises a wireless communications device and/or the system that is associated with the first and/or second devices comprises a wireless communications system that is configured to provide a communications service to the first and/or second devices.

**[0041]** In further embodiments, detecting comprises: using position information associated with the first device; using position information associated with the second device; detecting a signal (and/or a signal strength measurement such as RSSI) that is being radiated by the first device; detecting a signal (and/or a signal strength) that is being radiated by the second device; and/or detecting a signal (and/or a signal strength) that is being radiated by a device that is associated with the entity, wherein using position information may, according to some embodiments, comprise: evaluating a distance between the position information and one or more position values; and determining whether the distance is less than or equal to a threshold. In some embodiments, the one or more position values is/are predetermined.

**[0042]** In further embodiments, responsive to the enabling, the method comprises performing a function; wherein the function, according to some embodiments, comprises a financial transaction, receiving data and/or transmitting data. In some embodiments, receiving data comprises receiving data selectively from a first unit and wherein transmitting data comprises transmitting data selectively to a second unit. In some embodiments, the first and second units are the same unit, whereas in other embodiments the first and second units are different units. In further embodiments, the first and/or second units may be predetermined units and the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. In yet further embodiments, the first unit may be associated with an Internet Protocol (IP) address and/or the second unit may be associated with an IP address.

**[0043]** Referring to FIG. 2, the first device 14 can traverse a path 23 within an overall coverage area 20 and the second device 15 can traverse a path 25 within the overall coverage area 20. The overall coverage area 20 can include areas 22 and 24 that can be associated with respective entities. The entry of the first device 14 within

area 22 can selectively enable a mode and/or a function at device 14 and can optionally enable a mode and/or a function at device 15 based, according to some embodiments, on a proximity criterion to area 24. For example, if device 14 owned and/or operated by a user is at a first store within area 22 and the device 15 owned/operated by, for example, the user's spouse is at a second store within area 24, then the user's spouse at device 15 can complete a purchase within area 24 based on the user's presence with device 14 within area 22. Similarly, if the two users at devices 14 and 15 at respective areas 22 and 24 want to sample music, games and/or even play a game between each other, their respective device can be provisioned for such sampling as long as they stay within the proximity criteria set for each of the respective devices. Once one or the other device goes beyond the respective proximity criterion, the mode and/or function enabling the sampling will be disabled at one or both devices.

**[0044]** In some embodiments according to the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement.

**[0045]** In further embodiments according to the present invention, the financial transaction comprises providing payment associated with a toll and/or providing payment associated with a purchase of one or more items.

**[0046]** In accordance with additional embodiments of the present invention, receiving data comprises receiving data once or repeatedly and transmitting data comprises transmitting data once or repeatedly.

**[0047]** It will be understood that relative to any one of the plurality of methods described above, the term "entity" may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

**[0048]** In a further embodiment according to the present invention, a system is provided comprising: a detector that is configured to enable a mode of a first device and/or to enable a mode of a second device responsive to a detection that a proximity criterion is satisfied between the first device and an entity; wherein, according to

some embodiments, the second device is not the entity and is not associated with the entity, and wherein, according to further embodiments, the entity is not involved in providing a communications service to the first and/or second device. In some embodiments, the detector is included in, and the detection is performed by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices. Similarly, according to some embodiments, the detector is included in, and the mode is enabled by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices.

**[0049]** Referring to FIG. 3, a flow chart illustrating a method 30 in accordance with an embodiment herein includes detecting that a proximity criterion is satisfied between a first device and an entity at 32. Note, that although the steps described are in a certain order in this embodiment, embodiments contemplated within the scope of the claims are not necessarily limited to a particular order or necessarily include every step described in method 30 and may further include additional steps as may be obvious to one of ordinarily skilled in the art. Method 30 can further include enabling a mode of the first device and/or a mode of a second device responsive to detecting satisfaction of the proximity criterion and while the proximity criterion is satisfied at 34, where the first device and the second device form a part of a communication system providing communications service to the first device and the second device. The second device can be independent of the entity and the entity can be independent of the communications service provided to the first and second device at shown at 36. The method at 38 can enable a mode of the first device and a mode of the second device responsive to detecting that the proximity criterion is satisfied between the first device and the entity. The first device and the second device can be mobile subscriber devices (i.e., radioterminals) and the entity can be a proximity beacon enabling a financial transaction between the first device or the second device and a vendor in communication with the first device or the second device at an access point maintained by the vendor or on behalf of the vendor. The access point can be a toll both, a point of purchase counter, or a check out counter and the first device and the second device can be cellular phones authorized selectively by its user and by

satisfying the proximity criterion to proceed with a financial transaction associated with the vendor at the access point. As previously noted, although cellular phones are described, other communication devices are certainly within contemplation of the scope of the claims. The step of detecting can be done in any number of various ways. Detecting can include using position information associated with the first device relative to the entity or using position information of the second device relative to the entity or detecting a signal being radiated by the entity or detecting a signal being radiating by the first device and reflected by the entity or detecting a signal being radiating by the second device and reflected by the entity. In this regard, the method 30 can further evaluate a distance between the position information and one or more position values and determine whether the distance is less than or equal to a threshold at 39.

**[0050]** In some embodiments, the first device comprises a wireless communications device and/or the second device comprises a wireless communications device and the system that is associated with the first and/or second devices comprises a wireless communications system.

**[0051]** In further embodiments, the detection comprises: use of position information associated with the first device; use of position information associated with the second device; a detection of a signal that is being radiated by the first device; a detection of a signal that is being radiated by the second device; and/or a detection of a signal that is being radiated by a device that is associated with the entity. In some embodiments, use of position information comprises: an evaluation of a distance between the position information and one or more position values; and a determination of whether the distance is less than or equal to a threshold. It will be understood, that according to some embodiments of the invention, the one or more position values may be predetermined position values.

**[0052]** In yet additional embodiments of the present invention, the first device and/or the second device may be configured to perform a function responsive to the mode having been enabled by the detector, wherein, according to some embodiments, the function may comprise a financial transaction, reception of data and/or transmission of data. In some embodiments, reception of data comprises reception of

data selectively from a first unit and transmission of data comprises transmission of data selectively to a second unit. In accordance with some embodiments, the first and second units are the same unit and in accordance with other embodiments, the first and second units are different units. It will be understood that in some embodiments the first and/or second units may be first and second predetermined units.

**[0053]** In yet further embodiments of the invention, the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. According to additional embodiments, the first unit is associated with an Internet Protocol (IP) address and/or the second unit is associated with an IP address.

**[0054]** In some embodiments of the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement. According to other embodiments, the financial transaction comprises a payment of a toll and/or a payment associated with a purchase of one or more items. It will be understood that, in some embodiments, the reception of data comprises reception of data once or repeatedly and that, according to some embodiments, the transmission of data comprises transmission of data once or repeatedly. It will also be understood that according with any one of the embodiments described above (or any combination thereof) the term "entity," as used therein may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product that is on sale, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

**[0055]** In some embodiments according to the present invention, a system may comprise the detector, the first device, the second device, the entity, the device that is associated with the entity and/or the system that is associated with the first and/or second devices.

**[0056]** In the specification, there have been disclosed embodiments and, although specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation. The following claims are provided to set forth, at least in part, the scope of the present invention.

## CLAIMS

1. A method of establishing a capability at a smartphone for conducting a financial transaction; the method comprising:

prior to selectively requesting an authorization for establishing the capability for conducting the financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter that is sensed satisfies a criterion; then

while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship, by using the first function that is enabled, and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then

receiving the authorization to establish the capability for conducting the financial transaction and establishing the capability for conducting the financial transaction responsive to said receiving the authorization;

wherein the first function that is enabled comprises a communications capability; and

wherein the parameter that is sensed comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. The method of Claim 1 further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. The method of Claim 1, wherein following said establishing the capability for conducting the financial transaction, the method further comprising:

responsive to satisfying a proximity condition relative to an entity and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability for conducting the financial transaction and conducting the financial transaction by paying for a product.

4. A smartphone that is configured to perform operations comprising:

prior to requesting an authorization to establish a capability for conducting a financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter sensed satisfies a criterion; then

while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship, by using the first function that is enabled, and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then

receiving the authorization to establish the capability for conducting the financial transaction and establishing the capability for conducting the financial transaction responsive to said receiving the authorization;

wherein the first function that is enabled comprises a communications capability; and

wherein the parameter that is sensed comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. The smartphone of Claim 4, wherein following said establishing the capability for conducting the financial transaction, the operations further comprise:

responsive to satisfying a proximity condition relative to an entity and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability for conducting the financial transaction and conducting the financial transaction by paying for a product.

7. A method of operating a smartphone in performing a plurality of financial transactions; the method including a two-step process in establishing and using a capability to perform said plurality of financial transactions; the method comprising:

responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, transmitting by the smartphone first data to a first device, requesting the authorization to establish said capability, and as a precursor to performing a second step of said two-step process comprising the plurality of financial transactions; and

receiving by the smartphone second data from the first device responsive to said transmitting by the smartphone the first data and comprising the authorization; then

performing the second step of said two-step process and a first transaction of the plurality of financial transactions, responsive to detecting by the smartphone that a proximity condition is satisfied between the smartphone and a first entity;

wherein the second data relates to the plurality of financial transactions to be conducted and differs from the first data;

wherein the first entity is distinct from the first device; and

wherein said performing the second step of said two-step process and a first financial transaction of the plurality of financial transactions comprises:

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, using the first air interface, a short-range signal from the first entity; and responsive to said receiving, using the first air interface, sending to the first entity over the first air interface, information based on the second data received from the first device; and

independently of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface.

8. The method of Claim 7,

wherein each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending by the smartphone to the first entity over the first air interface, information associated with the second data received from the first device, is further responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

9. The method of claim 7,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one physiological parameter having been sensed by the at least one sensor of the smartphone and comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone first data and comprises receiving by

the smartphone data relating to an acknowledgement and/or authorization for establishing the function for paying for said plurality of financial transactions.

10. The method of claim 7, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

11. The method of claim 7,

wherein the second air interface comprises an Orthogonal Frequency Division Multiplexed (OFDM) and/or an Orthogonal Frequency Division Multiple Access (OFDMA) technology.

12. A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability to perform a plurality of financial transactions; the operations comprising:

responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, transmitting first data to a first device, requesting the authorization to establish said capability, and as a precursor to performing a second step of said two-step process comprising the plurality of financial transactions; and

receiving second data from the first device responsive to said transmitting the first data and comprising the authorization; then

performing the second step of said two-step process and a first financial transaction of the plurality of financial transactions, responsive to detecting by the smartphone that a proximity condition is satisfied between the smartphone and a first entity;

wherein the second data differs from the first data;

wherein the first entity is distinct from the first device; and

wherein said performing the second step of said two-step process and a first financial transaction of the plurality of financial transactions comprises:

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, using the first air interface, a short-range signal from the first entity; and responsive to said receiving, using the first air interface, sending to the first entity over the first air interface, information based on the second data received from the first device; and

independently of performing a transaction to pay for one or more items, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;

wherein said transmitting first data and said receiving second data are performed over an air interface that differs from the first air interface.

13. The smartphone of Claim 12,

wherein each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending by the smartphone to the first entity over the first air interface, information associated with the second data received from the first device, is further responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

14. The smartphone of claim 12,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one physiological parameter having been sensed by the at least one sensor of the smartphone and comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone first data and comprises receiving by the smartphone data relating to an acknowledgement and/or authorization for establishing the function for paying for said plurality of financial transactions.

15. The smartphone of claim 12, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

16. The smartphone of claim 12,

wherein the second air interface comprises an Orthogonal Frequency Division Multiplexed (OFDM) and/or an Orthogonal Frequency Division Multiple Access (OFDMA) technology.

**ABSTRACT**

A method of enabling one or more functions of a device is disclosed. The method includes sensing by a device a physiological parameter of a user of the device. The device determines whether or not the physiological parameter that is sensed satisfies a criterion. Responsive to determining that the physiological parameter that is sensed satisfies the criterion, the device enables a number of functions of the device while disabling a function of the device.

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

| | |
|---|---|
| **Title of Invention** | **MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION** |

As a below named inventor, I hereby declare that:

This declaration is directed to:
- ☐ The attached application, or
- ☐ United States application or PCT international application number _____ filed on _____,
- ☐ As amended on _____ (if applicable).

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 have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part 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.

LEGAL NAME OF INVENTOR

Signature: _____ Date: 7/26/2016

Legal Name: **PETER D. KARABINIS**

APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION |
|---|---|

As a below named inventor, I hereby declare that:

This declaration is directed to: The attached application, or
United States application or PCT international application number _____ filed on _____,
As amended on _____ (if applicable).

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 have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part 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.

LEGAL NAME OF INVENTOR 2

Signature: Rajendra Singh Date: JULY 26, 2016

Legal Name: **RAJENDRA SINGH**

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# ELECTRONIC PAYMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **10/18/2023 04:28:02 PM ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63026505 | AUTHORIZED BY | Aaron Pederson |
| CUSTOMER # | 138517 | FILING DATE | - |
| CORRESPONDENCE ADDRESS | - | FIRST NAMED INVENTOR | Peter D. Karabinis |

## Payment Information

| PAYMENT METHOD | PAYMENT TRANSACTION ID | PAYMENT AUTHORIZED BY |
|---|---|---|
| DA / 502880 | E20230HG29116742 | SAGE KRUSE |

| PRE-AUTHORIZED ACCOUNT | PRE-AUTHORIZED CATEGORY |
|---|---|
| 502880 | 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges) |

| FEE CODE | DESCRIPTION | ITEM PRICE($) | QUANTITY | ITEM TOTAL($) |
|---|---|---|---|---|
| 2830 | PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS | 56.00 | 1 | 56.00 |
| 2817 | REQUEST FOR PRIORITIZED EXAMINATION | 1680.00 | 1 | 1680.00 |
| 2111 | UTILITY PATENT APPL. SEARCH FEE | 280.00 | 1 | 280.00 |
| 4011 | BASIC FILING FEE- UTILITY | 64.00 | 1 | 64.00 |

| | | | | |
|---|---|---|---|---|
| 2311 | EXAMINATION OF ORIGINAL PATENT APPLICATION | 320.00 | 1 | 320.00 |
| 2201 | EACH INDEPENDENT CLAIM IN EXCESS OF THREE | 192.00 | 1 | 192.00 |
| | | | **TOTAL AMOUNT:** | **$2,592.00** |

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for 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**

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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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| | |
|---|---|
| Application Number | |
| Filing Date | October 18, 2023 |
| First Named Inventor | Peter D. Karabinis |
| Title | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | 1348.002US9 |

**SIGNATURE of Applicant or Patent Practitioner**

| | | | |
|---|---|---|---|
| Signature | /Aaron Pederson/ | Date (Optional) | 2023-10-18 |
| Name | Aaron Pederson | Registration Number | 58607 |
| Title (if Applicant is a juristic entity) | | | |
| Applicant Name (if Applicant is a juristic entity) | | | |

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☐ *Total of _____ forms are submitted.

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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
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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 |
|---|---|
| | |

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☑ 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: 138517

**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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| Address | | | | | |
| City | | State | | Zip | |
| Country | | | | | |
| Telephone | | Email | | | |

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

Telcom Ventures LLC

☐ 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) | 6-25-2019 |
| Name | Serge G. Martin | | |
| Title | Executive Vice President - Telcom Ventures LLC | | |

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

☐ Total of forms are submitted.

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

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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **10/18/2023 04:28:02 PM ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63026505 | FILING DATE | - |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 9**

| DOCUMENT | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|
| ADS1348002US9.pdf | 9 | Application Data Sheet | 2174 KB |
| Specification1348002US9-APP.TEXT.docx | 27 | Application body structured text document | 51 KB |
| Drawings1348002US9.pdf | 3 | Drawings-only black and white line drawings | 126 KB |
| Specification1348002US9.pdf | 27 | Auxiliary PDF of Application | 167 KB |
| Track1Request1348002US9.pdf | 2 | Track One Request | 172 KB |

| | | | |
|---|---|---|---|
| Declarations1348002US9.pdf | 2 | Oath or Declaration filed | 1993 KB |
| TransmittalIDS1348002US9.pdf | 2 | Transmittal Letter | 77 KB |
| IDS1348002US9.pdf | 12 | Information Disclosure Statement (IDS) Form (SB08) | 1256 KB |
| POA1348002US9.pdf | 2 | Power of Attorney | 389 KB |

**Digest**

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
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| ADS1348002US9.pdf | B8156EFA98DC7789AC17FBA41150D85297A1846F82F7C9C0A6E7005A8396D72BA5C7ABBF7C5331F232198E0D1ABC57F587D233E5BAAAEC3AA16CCC07A3AE4CB8 |
| Specification1348002US9-APP.TEXT.docx | 66D3B6EFD7244ADCA914B3372AD225FC5AB5F9F3C706EF4E59536F166C191AC84B2D510337BD6FA4B468931B5E9C75D09A9A56964F2DF01F152289ED0C263A38 |
| Drawings1348002US9.pdf | B2E934320B69154C30651E95760BBC2F6D72E58BE64C7DA9432E4C7B28247608C67A55E8C5E702FA9EADE0B76996E963BD9B2B8CAD383E0B2DA68B8C064EEE99 |
| Specification1348002US9.pdf | 914D13B631322EA0EAAC6EF9124D0416442E60789BBB430F4B0DE03646CF7D5228B0EC5802963F3C004A1E8B862F542AE042120CDA36A4A88E773E5895917AA3 |
| Track1Request1348002US9.pdf | 0E4EC505104B0273F5DF6C7F9AED7EA1DC0B525D85E14BD712EF187E1ED38672EF099E97AD7FE6F65583DC3D8581991087ED5EBC6EDC9DC639A39952D83D6288 |
| Declarations1348002US9.pdf | EC4FA9AA0A9DA371623B4233D7816D5A14F85F4465DE4CF40546607D2971DBE277A4B96B455CEF050B7A8A8AA603DAA6CE4DD2D110C09B2FFEBA5092AC391E8C |

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|---|---|
| TransmittalIDS1348002US9.pdf | C0880E784773D60C9E1DF8C7D3F2330B3E19F2052E46C2E59<br>8BF6CE08AD80911C49D78911E3C2B2B110E873D60DD35E085<br>88BDF6FE6275C56D58E204811275BB |
| IDS1348002US9.pdf | 5272467CF1DC60BE2B156EFC0C3D911D8DBE65D64DE2DF55<br>456ECD8F9388C48998F05BFEA36CCB97350365B35E31E2323<br>B0AC3646A2EB7A54B7AB3FF4A3CD980 |
| POA1348002US9.pdf | 20775F3B16F7FC9D3220901C857F0CCC8BAB7694FEB67BDE3<br>25D409F0051C2F3D3786E940B9659F130EE66E3A87D57F1252<br>A0852B9C7407459DF90E8060282F0 |

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for 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**

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Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

# CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

| | | | |
|---|---|---|---|
| First Named Inventor: | Peter D. Karabinis | Nonprovisional Application Number (if known): | |
| Title of Invention: | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | | |

**APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.**

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via Patent Center or EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via Patent Center or EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

| | |
|---|---|
| Signature /Aaron Pederson/ | Date 2023-10-18 |
| Name (Print/Typed) Aaron Pederson | Practitioner Registration Number 58607 |

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

☐ *Total of _____ forms are submitted.

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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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) 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)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

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Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) 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, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **10/26/2023 11:50:51 AM ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63087064 | FILING DATE | - |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 3**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| PrelimAmend1348002US9.pdf | | 10 | - | 89 KB |
| PrelimAmend1348002US9-A.PE.pdf | (1-1) | 1 | Preliminary Amendment | 66 KB |
| PrelimAmend1348002US9-CLM.pdf | (2-9) | 8 | Claims | 77 KB |
| PrelimAmend1348002US9-REM.pdf | (10-10) | 1 | Applicant Arguments/Remarks Made in an Amendment | 60 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| PrelimAmend1348002US9.pdf | 63FC6644CE7BC61A9338E42BD220E55D52F81A811248FF3020EDBE57E3F49CCD3D773A12FA1833FB4C89CB2F3AECA6DAB89C434720331512E74663CF2E53EFE2 |
| PrelimAmend1348002US9-A.PE.pdf | 1278075051A1058B231AECA85463531986C3B89D666AC730FE64663EE817FE9A8DF11D4E6B084CFF2A81BC44A6E1A960B8901862BA71A28F80CC310DEFBFE26F |
| PrelimAmend1348002US9-CLM.pdf | FB22D22431C09877722B914FDB7F1091633C65861241AC2F4DE83A8B2A24125DC76B42B0B2122C79D754A422539E78D236444B4637F379EA6508BD3E27BDD463 |
| PrelimAmend1348002US9-REM.pdf | 42FBAFD4E1D05FB5F989DF023177150EE28B1E5D15D299DA66F3B252D3B13E6F9C9C1DD5149040CEC459334D2310BACDC6F40C1FFE8EE8DB70347FCEC57B1172 |

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 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.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**PRELIMINARY AMENDMENT**

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

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks** begin on page 10 of this paper.

## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Currently Amended) A method of establishing a capability at a smartphone for conducting a financial transaction; the method comprising:

prior to selectively requesting an authorization for establishing the capability for conducting the financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter that is sensed satisfies a criterion; then

while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship, by using the first function that is enabled, and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then

receiving the authorization to establish the capability for conducting the financial transaction and establishing the capability for conducting the financial transaction responsive to said receiving the authorization;

wherein the first function that is enabled comprises a communications capability; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Original) The method of Claim 1 further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Original) The method of Claim 1, wherein following said establishing the capability for conducting the financial transaction, the method further comprising:

responsive to satisfying a proximity condition relative to an entity and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability for conducting the financial transaction and conducting the financial transaction by paying for a product.

4. (Currently Amended) A smartphone that is configured to perform operations comprising:

prior to requesting an authorization to establish a capability for conducting a financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter sensed satisfies a criterion; then

while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship, by using the first function that is enabled, and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then

receiving the authorization to establish the capability for conducting the financial transaction and establishing the capability for conducting the financial transaction responsive to said receiving the authorization;

wherein the first function that is enabled comprises a communications capability; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Original) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Original) The smartphone of Claim 4, wherein following said establishing the capability for conducting the financial transaction, the operations further comprise:

responsive to satisfying a proximity condition relative to an entity and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability for conducting the financial transaction and conducting the financial transaction by paying for a product.

7. (Currently Amended) A method of operating a smartphone in performing a plurality of financial transactions; the method including a two-step process in establishing and using a capability to perform said plurality of financial transactions; the method comprising:

responsive to at least one ~~physiological~~ parameter having been sensed by at least one sensor of the smartphone, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device[[,]] requesting the authorization to establish said capability~~, and as a precursor to performing a second step of said two-step process comprising~~ to perform the plurality of financial transactions; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data ~~and comprising the authorization~~; then

performing the second step of said two-step process [[and]] comprising performing a first transaction of the plurality of financial transactions, responsive to detecting by the smartphone that a proximity condition is satisfied between the smartphone and a first entity;

wherein the second data relates to the plurality of financial transactions to be conducted and differs from the first data;

wherein the first entity is distinct from the first device; [[and]]

wherein said performing the second step of said two-step process [[and]] comprising performing a first financial transaction of the plurality of financial transactions comprises: establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, by using the first air interface, a short-range signal from the first entity; and responsive to said receiving, by using the first air interface, sending to the first entity over the first air interface[[,]] information based on the second data received from the first device; [[and]]

wherein independently of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface; and

wherein said at least one parameter comprises a signal, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

8. (Currently Amended) The method of Claim 7,

wherein each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending ~~by the smartphone~~ to the first entity over the first air interface[[,]] information ~~associated with~~ based on the second data received from the first device, is further responsive to the at least one ~~physiological~~ parameter having been sensed by the at least one sensor of the smartphone.

9. (Currently Amended) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one ~~physiological~~ parameter having been sensed by the at least one sensor of the smartphone and comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone first data and comprises receiving by the smartphone data relating to an acknowledgement and/or authorization for establishing the function for paying for said plurality of financial transactions.

10. (Original) The method of claim 7, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

11. (Original) The method of claim 7,

wherein the second air interface comprises an Orthogonal Frequency Division Multiplexed (OFDM) and/or an Orthogonal Frequency Division Multiple Access (OFDMA) technology.

12. (Currently Amended) A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability to perform a plurality of financial transactions; the operations comprising:

responsive to at least one ~~physiological~~ parameter having been sensed by at least one sensor of the smartphone, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device[[,]] requesting the authorization to establish said

capability~~, and as a precursor to performing a second step of said two-step process comprising~~ to perform the plurality of financial transactions; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data ~~and comprising the authorization~~; then

performing the second step of said two-step process [[and]] comprising performing a first financial transaction of the plurality of financial transactions, responsive to detecting by the smartphone that a proximity condition is satisfied between the smartphone and a first entity;

wherein the second data differs from the first data;

wherein the first entity is distinct from the first device; [[and]]

wherein said performing the second step of said two-step process [[and]] comprising performing a first financial transaction of the plurality of financial transactions comprises: establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, by using the first air interface, a short-range signal from the first entity; and responsive to said receiving, by using the first air interface, sending to the first entity over the first air interface[[,]] information based on the second data received from the first device; [[and]]

wherein independently of performing a transaction to pay for one or more items, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;

wherein said transmitting first data and said receiving second data are performed over an air interface that differs from the first air interface; and

wherein said at least one parameter comprises a signal, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

13. (Currently Amended) The smartphone of Claim 12,

wherein each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending ~~by the~~

~~smartphone~~ to the first entity over the first air interface[[,]] information ~~associated with~~ based on the second data received from the first device, is further responsive to the at least one ~~physiological~~ parameter having been sensed by the at least one sensor of the smartphone.

14. (Currently Amended) The smartphone of claim 12,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one ~~physiological~~ parameter having been sensed by the at least one sensor of the smartphone and comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone first data and comprises receiving by the smartphone data relating to an acknowledgement and/or authorization for establishing the function for paying for said plurality of financial transactions.

15. (Original) The smartphone of claim 12, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

16. (Original) The smartphone of claim 12,

wherein the second air interface comprises an Orthogonal Frequency Division Multiplexed (OFDM) and/or an Orthogonal Frequency Division Multiple Access (OFDMA) technology.

17. (New) The method of Claim 1, wherein said selectively requesting an authorization for establishing the capability for conducting the financial transaction comprises:

selectively communicating with a device by using the communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (New) The smartphone of Claim 4, wherein said selectively requesting the authorization to establish the capability for conducting the financial transaction comprises:

selectively communicating with a device by using the communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

## REMARKS

With this amendment, claims 1, 4, 7-9 and 12-14 are amended, and claims 17-18 are new. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

Applicant believes no fees are due with this amendment. However, if a fee is due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: October 26, 2023

By: /Aaron W. Pederson/
Aaron W. Pederson
Reg. No. 58,607
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| APPLICATION NUMBER | FILING or 371(c) DATE | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | TOT CLAIMS | IND CLAIMS |
|---|---|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | | 856 | 1348.002US9 | 18 | 4 |

**CONFIRMATION NO. 5211**

**FILING RECEIPT**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

*OC00000063896203*

Date Mailed: 10/31/2023

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)**

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

**Applicant(s)**

Telcom Ventures LLC, Miami, FL;

**Power of Attorney:** The patent practitioners associated with Customer Number 138517

**Domestic Priority data as claimed by applicant**

This application is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

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:** 10/30/2023
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/489,517**
**Projected Publication Date:** 02/08/2024
**Non-Publication Request:** No
**Early Publication Request:** No
**** SMALL ENTITY ****
**Title**

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

**Preliminary Class**

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

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative,

this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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## Title 35, United States Code, Section 184

## Title 37, Code of Federal Regulations, 5.11 & 5.15

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## PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/489,517

### APPLICATION AS FILED - PART I

| FOR | (Column 1) NUMBER FILED | (Column 2) NUMBER EXTRA | SMALL ENTITY RATE($) | SMALL ENTITY FEE($) | OR | OTHER THAN SMALL ENTITY RATE($) | OTHER THAN SMALL ENTITY FEE($) |
|---|---|---|---|---|---|---|---|
| BASIC FEE (37 CFR 1.16(a), (b), or (c)) | N/A | N/A | N/A | 64 | | N/A | |
| SEARCH FEE (37 CFR 1.16(k), (i), or (m)) | N/A | N/A | N/A | 280 | | N/A | |
| EXAMINATION FEE (37 CFR 1.16(o), (p), or (q)) | N/A | N/A | N/A | 320 | | N/A | |
| TOTAL CLAIMS (37 CFR 1.16(i)) | 18 minus 20 = | * 0 | x = | 0 | OR | | |
| INDEPENDENT CLAIMS (37 CFR 1.16(h)) | 4 minus 3 = | * 1 | x 192 = | 192 | | | |
| APPLICATION SIZE FEE (37 CFR 1.16(s)) | If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | 0 | | | |
| MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) | | | | 0 | | | |
| * If the difference in column 1 is less than zero, enter "0" in column 2. | | | TOTAL | 856 | | TOTAL | |

### APPLICATION AS AMENDED - PART II

AMENDMENT A

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

AMENDMENT B

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

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

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**SECOND PRELIMINARY AMENDMENT**

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

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks** begin on page 16 of this paper.

**AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Currently Amended) A method of establishing a capability at a smartphone ~~for conducting~~ to conduct a financial transaction; the method comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, ~~prior to~~ selectively establishing a master-slave relationship, and selectively requesting an authorization ~~for establishing the~~ to establish said capability ~~for conducting the financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter that is sensed satisfies a criterion~~; then

~~while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then~~

receiving the authorization to establish the capability, ~~for conducting the financial transaction~~ responsive to said selectively requesting an authorization, and establishing the capability ~~for conducting the financial transaction responsive to said receiving the authorization~~ at the smartphone responsive to said receiving the authorization;

wherein ~~the first function that is enabled~~ said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises ~~a communications capability~~ wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of

brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Original) The method of Claim 1 further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Currently Amended) The method of Claim 1, wherein following said establishing the capability ~~for conducting the financial transaction~~ at the smartphone, the method further ~~comprising~~ comprises:

responsive to satisfying a proximity condition ~~relative to an entity~~ and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability ~~for conducting~~ to conduct the financial transaction that has been established at the smartphone and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for the product by selectively sending information to at least one device;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

4. (Currently Amended) A smartphone that is configured to perform operations in order to establish a capability to conduct a financial transaction; the operations comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, ~~prior to~~ selectively establishing a master-slave relationship, and selectively requesting an authorization to establish [[a]] said capability ~~for conducting a financial transaction, enabling a first function while disabling a second function responsive to sensing a parameter and responsive to determining that the parameter sensed satisfies a criterion~~; then

~~while said first function is enabled, responsive to having sensed the parameter and responsive to having determined that the parameter that is sensed satisfies the criterion, selectively establishing a master-slave relationship, responsive to a need for such a relationship, by using the first function that is enabled, and selectively requesting the authorization to establish the capability for conducting the financial transaction; and then~~

receiving the authorization to establish the capability, ~~for conducting the financial transaction~~ responsive to said selectively requesting an authorization, and establishing the capability ~~for conducting the financial transaction responsive to said receiving the authorization~~ at the smartphone responsive to said receiving the authorization;

wherein ~~the first function that is enabled~~ said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises ~~a communications capability~~ wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of

brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Original) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Currently Amended) The smartphone of Claim 4, wherein following said establishing the capability ~~for conducting the financial transaction~~ at the smartphone, the operations further comprise:

responsive to satisfying a proximity condition ~~relative to an entity~~ and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability ~~for conducting~~ that has been established at the smartphone to conduct the financial transaction and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for said product by selectively sending information to at least one device;

wherein said selectively sending information to at least one device comprises selectively and wirelessly transmitting the information to the at least one device using unlicensed frequencies;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

7. (Currently Amended) A method of operating a smartphone in performing ~~a plurality of financial transactions~~ at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said ~~plurality of financial transactions~~ at least one financial transaction; the method comprising:

responsive to sensing at least one parameter ~~having been sensed~~ by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform ~~the plurality of financial transactions~~ said at least one financial transaction; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of ~~the plurality of financial transactions~~ said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied ~~between the smartphone and a first entity~~ and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

~~wherein the second data relates to the plurality of financial transactions to be conducted and differs from the first data;~~

~~wherein the first entity is distinct from the first device;~~

wherein said performing the second step of said two-step process comprises ~~comprising performing a first financial transaction of the plurality of financial transactions comprises: establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, by using the first air interface, a short-range signal from the first entity; and responsive to said receiving, by using the first air interface, sending to the first entity over the first air interface information based on the second data received from the first device;~~ sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

~~wherein independently of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;~~

~~wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface; and~~

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

8. (Currently Amended) The method of Claim 7,

wherein ~~each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending to the first entity over the first air interface information based on the second data received from the first device, is further responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone~~ said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

9. (Currently Amended) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and ~~comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions~~ is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone ~~data~~ information relating to an acknowledgement and/or authorization ~~for establishing~~ to establish and use the ~~function for paying for~~ capability to perform said ~~plurality of financial transactions~~ at least one financial transaction.

10. (Currently Amended) The method of claim 7, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to ~~a plurality of predetermined devices~~ at least one device and further causing data to be received selectively from ~~said plurality of predetermined devices~~ at least one device.

11. (Currently Amended) The method of claim 7,

wherein ~~the second air interface comprises~~ said transmitting by the smartphone first data to a first device and receiving by the smartphone second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division ~~Multiplexed (OFDM)~~ Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access ~~(OFDMA) technology~~ air interface protocol.

12. (Currently Amended) A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability in order to perform ~~a plurality of financial transactions~~ at least one financial transaction; the operations comprising:

responsive to sensing at least one parameter ~~having been sensed~~ by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device requesting the authorization to establish said capability to perform ~~the plurality of financial transactions~~ said at least one financial transaction; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data; then

performing the second step of said two-step process comprising performing a first financial transaction of ~~the plurality of financial transactions~~ said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied ~~between the~~

~~smartphone and a first entity~~ and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

~~wherein the second data differs from the first data;~~

~~wherein the first entity is distinct from the first device;~~

wherein said performing the second step of said two-step process comprises ~~comprising performing a first financial transaction of the plurality of financial transactions comprises: establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, responsive to the proximity condition having been satisfied between the smartphone and the first entity; receiving, by using the first air interface, a short-range signal from the first entity; and responsive to said receiving, by using the first air interface, sending to the first entity over the first air interface information based on the second data received from the first device;~~ sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

~~wherein independently of performing a transaction to pay for one or more items, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface;~~

~~wherein said transmitting first data and said receiving second data are performed over an air interface that differs from the first air interface; and~~

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level

of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

13. (Currently Amended) The smartphone of Claim 12,

wherein ~~each one of said establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity; and said sending to the first entity over the first air interface information based on the second data received from the first device, is further responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone~~ said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

14. (Currently Amended) The smartphone of claim 12,

wherein said transmitting ~~by the smartphone~~ first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and ~~comprises transmitting by the smartphone data relating to a request to establish a function for paying for said plurality of financial transactions~~ is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone ~~data~~ information relating to an acknowledgement and/or authorization ~~for establishing~~ to establish and use the ~~function for paying for~~ capability to perform said ~~plurality of financial transactions~~ at least one financial transaction.

15. (Currently Amended) The smartphone of claim 12, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to ~~a plurality of predetermined devices~~ at least one device and further causing data to be received selectively from ~~said plurality of predetermined devices~~ at least one device.

16. (Currently Amended) The smartphone of claim 12,

wherein ~~the second air interface comprises~~ said transmitting first data to a first device and said receiving second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division ~~Multiplexed (OFDM)~~ Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access ~~(OFDMA) technology~~ air interface protocol.

17. (Currently Amended) The method of Claim 1, wherein prior to said selectively requesting an authorization ~~for establishing the capability for conducting the financial transaction~~ the method comprises:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using [[the]] a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (Currently Amended) The smartphone of Claim 4, wherein prior to said selectively requesting [[the]] an authorization ~~to establish the capability for conducting the financial transaction comprises~~ the operations comprise:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using [[the]] a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

19. (New) The method of Claim 3, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account associated with a user of the smartphone.

20. (New) The method of Claim 3, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in a Time Division Duplex operation.

21. (New) The method of Claim 19,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

22. (New) The smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account associated with a user of the smartphone.

23. (New) The smartphone of Claim 6, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in Time Division Duplex operation.

24. (New) The smartphone of Claim 22,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

25. (New) The method of Claim 7, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account associated with a user of the smartphone; and

26. (New) The method of Claim 7,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

27. (New) The method of Claim 8, further comprising:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

28. (New) The method of Claim 12, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account associated with a user of the smartphone.

29. (New) The method of Claim 12,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

30. (New) The smartphone of Claim 13, wherein the operations further comprise:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

## REMARKS

With this amendment, claims 1, 3-4 and 6-18 are amended, and claims 19-30 are new. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

Additional claims fees are being paid concurrently with this amendment. If any additional fee is believed to be due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: November 8, 2023

By: /Aaron W. Pederson/
Aaron W. Pederson
Reg. No. 58,607
(612) 436-9609

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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# ELECTRONIC PAYMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **11/08/2023 04:49:06 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63198672 | AUTHORIZED BY | Aaron Pederson |
| CUSTOMER # | 138517 | FILING DATE | 10/18/2023 |
| CORRESPONDENCE ADDRESS | - | FIRST NAMED INVENTOR | Peter D. Karabinis |

## Payment Information

| PAYMENT METHOD | PAYMENT TRANSACTION ID | PAYMENT AUTHORIZED BY |
|---|---|---|
| DA / 502880 | E2023A8G50065303 | SAGE KRUSE |

| PRE-AUTHORIZED ACCOUNT | PRE-AUTHORIZED CATEGORY |
|---|---|
| 502880 | 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges) |

| FEE CODE | DESCRIPTION | ITEM PRICE($) | QUANTITY | ITEM TOTAL($) |
|---|---|---|---|---|
| 2202 | EACH CLAIM IN EXCESS OF 20 | 40.00 | 10 | 400.00 |
| | | | **TOTAL AMOUNT:** | **$400.00** |

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 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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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **11/08/2023 04:49:06 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63198672 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 3**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| 2ndPrelimAmend1348002US9.pdf | | 16 | - | 116 KB |
| 2ndPrelimAmend1348002US9-A.PE.pdf | (1-1) | 1 | Preliminary Amendment | 67 KB |
| 2ndPrelimAmend1348002US9-CLM.pdf | (2-15) | 14 | Claims | 103 KB |
| 2ndPrelimAmend1348002US9-REM.pdf | (16-16) | 1 | Applicant Arguments/Remarks Made in an Amendment | 61 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| 2ndPrelimAmend1348002US9.pdf | D73C5AEDB37B727286E9644776DCAA8468183D29C16A5E9BC02C7B820FBA071D983C7C01C12D24CCD1F7F73CCC7E17BEE047768EE8616E546B6E163D60CD11B3 |
| 2ndPrelimAmend1348002US9-A.PE.pdf | C604C6D8C37CFB7657BE4581815B5E3A4AD4C20753DDB9D146EF1D687EC7820C675AA188A960956018DC508CA5263873D2B6F26EB31136BF2721DB96D290717C |
| 2ndPrelimAmend1348002US9-CLM.pdf | AC70A2EC295567336D411587EA3C672F0DDE681AD5E8968A6999CFAAA311093A169D1A41ED3F6B7F36ED6D6B38F0C1BA250808C0538DB42F69CAD69DBB5D52A7 |
| 2ndPrelimAmend1348002US9-REM.pdf | C088B77E07FD22C154ED3F41DC5888F611EC877EF1B1FABA37DE3D244C5BB4B0C8BA56317B53EB097DEC387850D89E8525B64DB66BA9DB6D1D0EE91DA98F47A1 |

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for 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.

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
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 | 5211 |

138517 7590 11/09/2023

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

| EXAMINER |
|---|
| CENTRAL, DOCKET |

| ART UNIT | PAPER NUMBER |
|---|---|
| OPAP | |

| NOTIFICATION DATE | DELIVERY MODE |
|---|---|
| 11/09/2023 | 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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

| *Decision Granting Request for Prioritized Examination (Track I)* | **Application No.** 18/489,517 | **Applicant(s)** Karabinis et al. | |
|---|---|---|---|
| | **Examiner** FIKIRTE A GEREMEW | **Art Unit** OMBL | **AIA (FITF) Status** No |

1. THE REQUEST FILED 18 October 2023 IS **GRANTED** .

The above-identified application has met the requirements for prioritized examination

A. ☑ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;

B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;

C. filing a **request for continued examination** ;

D. filing a notice of appeal;

E. filing a request for suspension of action;

F. mailing of a notice of allowance;

G. mailing of a final Office action;

H. completion of examination as defined in 37 CFR 41.102; or

I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to FIKIRTE GEREMEW at (703) 756-1930. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

| /FIKIRTE A GEREMEW/<br>PROGRAM SUPPORT ASSISTANT, OMBL | |
|---|---|

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

| PATENT APPLICATION FEE DETERMINATION RECORD<br>Substitute for Form PTO-875 | Application or Docket Number<br>18/489,517 | Filing Date<br>10/18/2023 | ☐ To be Mailed |
|---|---|---|---|

**ENTITY:** ☐ LARGE ☑ SMALL ☐ MICRO

## APPLICATION AS FILED - PART I

| FOR | (Column 1)<br>NUMBER FILED | (Column 2)<br>NUMBER EXTRA | | RATE ($) | FEE ($) |
|---|---|---|---|---|---|
| ☐ BASIC FEE<br>(37 CFR 1.16(a), (b), or (c)) | N/A | N/A | | N/A | |
| ☐ SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m)) | N/A | N/A | | N/A | |
| ☐ EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q)) | N/A | N/A | | N/A | |
| TOTAL CLAIMS<br>(37 CFR 1.16(i)) | minus 20 = | * | | x $40 = | |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h)) | minus 3 = | * | | x $ 192 = | |
| ☐ 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). | | | | |
| ☐ 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 | |

## APPLICATION AS AMENDED - PART II

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | 11/14/2023 | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | | RATE ($) | ADDITIONAL FEE ($) |
| | Total<br>(37 CFR 1.16(i)) | * 30 | Minus | ** 20 | = 10 | | x $40 = | 400 |
| | Independent<br>(37 CFR 1.16(h)) | * 4 | Minus | *** 4 | = 0 | | x $ 192 = | 0 |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | |
| | | | | | | | TOTAL ADD'L FEE | 400 |

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | | 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 = | |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ 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". | /GAIL D WOOTEN/ |
| *** 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.*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**THIRD PRELIMINARY AMENDMENT**

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

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

**Amendments to the Specification** are reflected on page 2 of this paper.

**Amendments to the Claims** begin on page 3 of this paper.

**Remarks** begin on page 14 of this paper.

## AMENDMENTS TO THE SPECIFICATION

Please replace the Title of the application with the below title:

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

Please replace the Abstract with the following replacement Abstract:

Systems/Methods of establishing and using a capability at a smartphone to conduct financial transactions are disclosed. According to some embodiments, responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, a master-slave relationship is selectively established with a device and an authorization to establish said capability is selectively requested from the device. Responsive to receiving the authorization, the capability to conduct financial transactions by the smartphone is established. Then, provided the smartphone is proximate to an access point maintained by a vendor and provided that the value of the parameter is sensed and satisfies the criterion, said capability that has been established may be used to conduct a financial transaction and pay for a product.

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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **11/14/2023 01:11:56 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63242761 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 4**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| PreliminaryAmendment13480 02US9.pdf | | 15 | - | 99 KB |
| PreliminaryAmendment1348 002US9-A.PE.pdf | (1-1) | 1 | Preliminary Amendment | 67 KB |
| PreliminaryAmendment1348 002US9-SPEC.pdf | (2-2) | 1 | Specification | 62 KB |
| PreliminaryAmendment1348 002US9-CLM.pdf | (3-13) | 11 | Claims | 83 KB |
| PreliminaryAmendment1348 002US9-REM.pdf | (14-15) | 2 | Applicant Arguments/Remarks Made in an Amendment | 63 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| PreliminaryAmendment1348002US9.pdf | 3329215012FC32988030862296216F2E21D2A4035DD10CBDBA8364A782B668B2D4610F1BEA6C70F87835174B34158BC538052F5DA94A7294BDBBB0AA9581845E |
| PreliminaryAmendment1348002US9-A.PE.pdf | 0BF4A3B7A1198DBBBD4A1E60FCC2C636A3589665550AA0B2CB26882C902631DFB7DD2437F3BED2378E718D9AC3416EEC624B2F50F55764F69E1B54E935A938F2 |
| PreliminaryAmendment1348002US9-SPEC.pdf | 9988A3065FE659F305409641ED83C0EEE6C5D9FEC1F8B7B077F4F2E49BA1D4FC121E4BA3E85BD43D7C2C8C9F01CDBB4073B84EA8B7F8507F73EBF997711EBDFC |
| PreliminaryAmendment1348002US9-CLM.pdf | 97B1251C7220331A6738560284A1A413EC3482FE9A60E335389884D55E8F79428C88C7E37ECD0F1A4F8953002FE01BFBF603783FB11F383543ABA8FF71E06519 |
| PreliminaryAmendment1348002US9-REM.pdf | 1FA6FA541B98C174053EBC632436FBD143D772E91175DF9D58EE77687CB1C6FBD5BF488E0DE6C7E32834CB7F5C6D43D2BA421D6EED74FF89FDBEDB781E44C92C |

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**New Applications Under 35 U.S.C. 111**

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**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**

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## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Previously Presented) A method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Currently Amended) The method of Claim 1, further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Previously Presented) The method of Claim 1, wherein following said establishing the capability at the smartphone, the method further comprises:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability to conduct the financial transaction that has been established at the smartphone and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for the product by selectively sending information to at least one device;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

4. (Previously Presented) A smartphone that is configured to perform operations in order to establish a capability to conduct a financial transaction; the operations comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Original) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Previously Presented) The smartphone of Claim 4, wherein following said establishing the capability at the smartphone, the operations further comprise:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability that has been established at the smartphone to conduct the financial transaction and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the

parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for said product by selectively sending information to at least one device;

wherein said selectively sending information to at least one device comprises selectively and wirelessly transmitting the information to the at least one device using unlicensed frequencies;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

7. (Previously Presented) A method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction; the method comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

8. (Previously Presented) The method of Claim 7,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

9. (Previously Presented) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is

further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

10. (Previously Presented) The method of claim 7, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

11. (Previously Presented) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device and receiving by the smartphone second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

12. (Previously Presented) A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability in order to perform at least one financial transaction; the operations comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data; then

performing the second step of said two-step process comprising performing a first financial transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

13. (Previously Presented) The smartphone of Claim 12,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a

master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

14. (Previously Presented) The smartphone of claim 12,

wherein said transmitting first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

15. (Previously Presented) The smartphone of claim 12, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

16. (Previously Presented) The smartphone of claim 12,

wherein said transmitting first data to a first device and said receiving second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

17. (Previously Presented) The method of Claim 1, wherein prior to said selectively requesting an authorization the method comprises:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (Previously Presented) The smartphone of Claim 4, wherein prior to said selectively requesting an authorization the operations comprise:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

19. (Currently Amended) The method of Claim 3, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

20. (Previously Presented) The method of Claim 3, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in a Time Division Duplex operation.

21. (Previously Presented) The method of Claim 19,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

22. (Currently Amended) The smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

23. (Previously Presented) The smartphone of Claim 6, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in Time Division Duplex operation.

24. (Previously Presented) The smartphone of Claim 22,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

25. (Currently Amended) The method of Claim 7, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account, ~~associated with a user of the smartphone; and~~

26. (Previously Presented) The method of Claim 7,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

27. (Previously Presented) The method of Claim 8, further comprising:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

28. (Currently Amended) The method of Claim 12, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

29. (Previously Presented) The method of Claim 12,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

30. (Previously Presented) The smartphone of Claim 13, wherein the operations further comprise:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

## REMARKS

With this amendment, claims 2, 19, 22, 25 and 28 are amended, and the Title of the application and Abstract paragraph have been amended to more accurately reflect the inventions defined by the claims. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

No fees are believed to be due with this filing. If it is determined fees are due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

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## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Previously Presented) A method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Currently Amended) The method of Claim 1, further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Previously Presented) The method of Claim 1, wherein following said establishing the capability at the smartphone, the method further comprises:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability to conduct the financial transaction that has been established at the smartphone and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for the product by selectively sending information to at least one device;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

4. (Previously Presented) A smartphone that is configured to perform operations in order to establish a capability to conduct a financial transaction; the operations comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Original) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Previously Presented) The smartphone of Claim 4, wherein following said establishing the capability at the smartphone, the operations further comprise:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability that has been established at the smartphone to conduct the financial transaction and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the

parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for said product by selectively sending information to at least one device;

wherein said selectively sending information to at least one device comprises selectively and wirelessly transmitting the information to the at least one device using unlicensed frequencies;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

7. (Previously Presented) A method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction; the method comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

8. (Previously Presented) The method of Claim 7,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

9. (Previously Presented) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is

further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

10. (Previously Presented) The method of claim 7, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

11. (Previously Presented) The method of claim 7,

wherein said transmitting by the smartphone first data to a first device and receiving by the smartphone second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

12. (Previously Presented) A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability in order to perform at least one financial transaction; the operations comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data; then

performing the second step of said two-step process comprising performing a first financial transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

13. (Previously Presented) The smartphone of Claim 12,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a

master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

14. (Previously Presented) The smartphone of claim 12,

wherein said transmitting first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

15. (Previously Presented) The smartphone of claim 12, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

16. (Previously Presented) The smartphone of claim 12,

wherein said transmitting first data to a first device and said receiving second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

17. (Previously Presented) The method of Claim 1, wherein prior to said selectively requesting an authorization the method comprises:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (Previously Presented) The smartphone of Claim 4, wherein prior to said selectively requesting an authorization the operations comprise:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

19. (Currently Amended) The method of Claim 3, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

20. (Previously Presented) The method of Claim 3, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in a Time Division Duplex operation.

21. (Previously Presented) The method of Claim 19,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

22. (Currently Amended) The smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

23. (Previously Presented) The smartphone of Claim 6, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in Time Division Duplex operation.

24. (Previously Presented) The smartphone of Claim 22,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

25. (Currently Amended) The method of Claim 7, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account, ~~associated with a user of the smartphone; and~~

26. (Previously Presented) The method of Claim 7,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

27. (Previously Presented) The method of Claim 8, further comprising:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

28. (Currently Amended) The method of Claim 12, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account ~~associated with a user of the smartphone~~.

29. (Previously Presented) The method of Claim 12,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

30. (Previously Presented) The smartphone of Claim 13, wherein the operations further comprise:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

## REMARKS

With this amendment, claims 2, 19, 22, 25 and 28 are amended, and the Title of the application and Abstract paragraph have been amended to more accurately reflect the inventions defined by the claims. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

No fees are believed to be due with this filing. If it is determined fees are due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

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| NOTIFICATION DATE | DELIVERY MODE |
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| 11/28/2023 | 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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

PTOL-90A (Rev. 04/07)

| *Office Action Summary* | Application No. 18/489,517 | Applicant(s) Karabinis et al. | |
|---|---|---|---|
| | Examiner MICHAEL T VU | Art Unit 2641 | 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 2 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 10/18/2023.

☐ 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) 1-30 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☐ Claim(s) _____ is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☑ Claim(s) 1-30 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 or send an inquiry to **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) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

## DETAILED ACTION

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

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

### *Election/Restrictions*

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-6, 17-24, drawn to method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising: responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship classified in CPC H04W 48/04.

II. Claims 7-16, 25-30, drawn to method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability; transmitting or receiving first data and second data classified in CPC G06Q 20/34.

The inventions are distinct, each from the other because of the following reasons:

3. Inventions Group I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination Group I and Group II has separate utility such as method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability; transmitting or receiving first data and second data. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different classification;

(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

(c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

**Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined** even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected invention**.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the

above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder**. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. 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.

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Inventor(s) | : | Peter D. Karabinis |
| Filed | : | October 18, 2023 |
| Art Unit | : | 2641 |
| Examiner | : | Michael T. Vu |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABELEMENT RESPONSIVE TO SENSING A PHYSIOLOCIGAL PARAMETER |

**RESPONSE TO RESTRICTION REQUIREMENT**

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

Sir:

In response to the Restriction Requirement mailed November 28, 2023, please consider the following:

**Amendments to the Claims**, beginning at page 2 of this paper; and

**Remarks,** beginning on page 7 of this paper.

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace a prior versions and listings of claims in the application.

Listing of claims:

1. (Previously Presented) A method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Previously Presented) The method of Claim 1, further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Previously Presented) The method of Claim 1, wherein following said establishing the capability at the smartphone, the method further comprises:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability to conduct the financial transaction that has been established at the smartphone and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for the product by selectively sending information to at least one device;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

4. (Previously Presented) A smartphone that is configured to perform operations in order to establish a capability to conduct a financial transaction; the operations comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving

using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Original) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Previously Presented) The smartphone of Claim 4, wherein following said establishing the capability at the smartphone, the operations further comprise:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability that has been established at the smartphone to conduct the financial transaction and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for said product by selectively sending information to at least one device;

wherein said selectively sending information to at least one device comprises selectively and wirelessly transmitting the information to the at least one device using unlicensed frequencies;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

7-16. (Cancelled)

17. (Previously Presented) The method of Claim 1, wherein prior to said selectively requesting an authorization the method comprises:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (Previously Presented) The smartphone of Claim 4, wherein prior to said selectively requesting an authorization the operations comprise:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

19. (Previously Presented) The method of Claim 3, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

20. (Previously Presented) The method of Claim 3, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in a Time Division Duplex operation.

21. (Previously Presented) The method of Claim 19,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

22. (Previously Presented) The smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

23. (Previously Presented) The smartphone of Claim 6, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in Time Division Duplex operation.

24. (Previously Presented) The smartphone of Claim 22,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

25-30. (Cancelled)

**REMARKS**

This paper is responsive to the Restriction Requirement dated November 28, 2023 wherein claims 1-30 were pending. The Restriction Requirement requires restriction to one of the following Groups:

- Group I, Claims 1-6, 17-24, drawn to a method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising: responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship classified in CPC H04W 48/04.
- Group II, Claims 7-16, 25-30, drawn to a method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability; transmitting or receiving first data and second data classified in CPC G06Q 20/34.

Applicant hereby elects Group I, without traverse, encompassing claims 1-6 and 17-24. Applicant has cancelled claims 7-16 and 25-30.

**SUMMARY**

If the Examiner believes that anything further is necessary to place the application in better condition for allowance, the Examiner is asked to contact Applicant's undersigned representative at the telephone number below.

This response is being filed on or before January 28, 2024, making this a timely response. It is believed that no fee is due in connection with the filing of this response. However, if the Commissioner determines that fees under 37 C.F.R. §§ 1.16 to 1.21 are required for any reason, the Commissioner is hereby authorized to deduct said fee from Deposit Account No.: 50-2880.

Respectfully Submitted,

Date: November 29, 2023

By /Aaron Pederson/
Aaron Pederson
Reg. No. 58,607
Attorney for Applicant
(612) 436-9609

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **11/29/2023 03:21:28 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63422885 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 3**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| ResponsetoRR1348002US9.pdf | | 8 | - | 96 KB |
| ResponsetoRR1348002US9-ELC..pdf | (1-1) | 1 | Response to Election / Restriction Filed | 63 KB |
| ResponsetoRR1348002US9-CLM.pdf | (2-6) | 5 | Claims | 75 KB |
| ResponsetoRR1348002US9-REM.pdf | (7-8) | 2 | Applicant Arguments/Remarks Made in an Amendment | 77 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| ResponsetoRR1348002US9.pdf | 4DC8EC8715937AE7E2D3F427724BED66C8C538FB84CB5133B4943177A900D5B4B7C15F66D59A398F463EAF14BB446282221D5198D0C2E4A533D8D08496C96DB4 |
| ResponsetoRR1348002US9-ELC..pdf | A5ED46B9992D11D05167A756F9FA6911EF7535FFE6D612EAECEB406C2E3763215B7F93A81B6C88733D0EBA4DC4113AC3091FE1258BAC728739BDD8C16E4B0B86 |
| ResponsetoRR1348002US9-CLM.pdf | 83BF6F4FFC85F18316210E62E073883D2983104D7149FD30AFD983C6E0CF733807DEB19F6241A37AE45A8A783BD48F334BA9C2EBCDFFDE79B4336B8327B30854 |
| ResponsetoRR1348002US9-REM.pdf | 33959414EEDD951913990B457C87B8E023B9812E4AB042B40B58163C08528014CF9E1CF0E386B164D995D858235774CD2DDAD8CC104609B3C6E4C605DEA5E31D |

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 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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **11/30/2023 04:14:03 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63444183 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 3**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| PrelimAmend1348002US930NOV2023.pdf | | 8 | - | 83 KB |
| PrelimAmend1348002US930NOV2023-A.PE.pdf | (1-1) | 1 | Preliminary Amendment | 66 KB |
| PrelimAmend1348002US930NOV2023-CLM.pdf | (2-7) | 6 | Claims | 70 KB |
| PrelimAmend1348002US930NOV2023-REM.pdf | (8-8) | 1 | Applicant Arguments/Remarks Made in an Amendment | 60 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| PrelimAmend1348002US930NOV2023.pdf | 04FDB00A96F618E29AF85C11EDE50ABB21D7EECE8C0BBA2F21F206D79F18965B53EE8C5F4A0E20AA6E0D6004CE1A7E59F6108FB7CE63C89CD4D9EEF30E83E2BE |
| PrelimAmend1348002US930NOV2023-A.PE.pdf | 7DE2B2EF7EAC31DD41A4AF3165BD0313AAD722BD30B04F08E6AF1E06AF1599A316198FE14544F0B42DBD0026807A4979AAF539275ED837F361D5DE1D86D1FE68 |
| PrelimAmend1348002US930NOV2023-CLM.pdf | 1B9E5F547071D699ADE761A5D02FB7B4BF4169682D279D381B91F9F3929231C3BE64AE9E1882AC304CF05AA99FCF370CA92130C5D5D6254A191F73F5281CF143 |
| PrelimAmend1348002US930NOV2023-REM.pdf | 34DED2F9D82639D312310DC713CFE4081350176OB2B7E651E76DA60C43305DF94033DFB16E472966BD89D445A045EE98F2B8D2ED7FD038EC27792770B155EE44 |

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 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.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**PRELIMINARY AMENDMENT**

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

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks** begin on page 8 of this paper.

## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Currently Amended) A method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the value of the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Currently Amended) The method of Claim 1, further comprising:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled [[said]] a first function of the smartphone while maintaining disabled [[said]] a second function of the smartphone; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

3. (Previously Presented) The method of Claim 1, wherein following said establishing the capability at the smartphone, the method further comprises:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability to conduct the financial transaction that has been established at the smartphone and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for the product by selectively sending information to at least one device;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

4. (Currently Amended) A smartphone that is configured to perform operations in order to establish a capability to conduct a financial transaction; the operations comprising:

responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion, selectively establishing a master-slave relationship, and selectively requesting an authorization to establish said capability; then

receiving the authorization to establish the capability, responsive to said selectively requesting an authorization, and establishing the capability at the smartphone responsive to said receiving the authorization;

wherein said selectively establishing a master-slave relationship, said selectively requesting an authorization and said receiving the authorization comprises wirelessly transmitting/receiving using a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol; and

wherein the value of the parameter that is sensed comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a position, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

5. (Currently Amended) The smartphone of Claim 4, wherein the operations further comprise:

repeatedly sensing said value of the parameter and repeatedly deciding, based on comparing the value of the parameter to the criterion, whether or not to maintain enabled [[said]] a first function of the smartphone while maintaining disabled [[said]] a second function of the smartphone; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the parameter no longer satisfies the criterion.

6. (Previously Presented) The smartphone of Claim 4, wherein following said establishing the capability at the smartphone, the operations further comprise:

responsive to satisfying a proximity condition and responsive to sensing the value of the parameter and determining that the value of the parameter sensed satisfies the criterion, using the capability that has been established at the smartphone to conduct the financial transaction and conducting the financial transaction by paying for a product;

wherein said paying for a product comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that the value of the parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the parameter sensed satisfies the criterion, paying for said product by selectively sending information to at least one device;

wherein said selectively sending information to at least one device comprises selectively and wirelessly transmitting the information to the at least one device using unlicensed frequencies;

wherein said paying for the product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said paying for the product by selectively sending information to at least one device is further responsive to said selectively requesting an authorization, said receiving the authorization and said establishing the capability at the smartphone.

7-16. (Cancelled)

17. (Previously Presented) The method of Claim 1, wherein prior to said selectively requesting an authorization the method comprises:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

18. (Previously Presented) The smartphone of Claim 4, wherein prior to said selectively requesting an authorization the operations comprise:

enabling a first function of the smartphone while disabling a second function of the smartphone responsive to sensing the parameter and responsive to determining that the parameter sensed satisfies the criterion; then

selectively communicating with a device by using a communications capability of the first function, selectively establishing the master-slave relationship with the device and selectively requesting from the device the authorization to establish the capability for conducting the financial transaction.

19. (Previously Presented) The method of Claim 3, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

20. (Previously Presented) The method of Claim 3, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in a Time Division Duplex operation.

21. (Previously Presented) The method of Claim 19,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

22. (Previously Presented) The smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

23. (Previously Presented) The smartphone of Claim 6, wherein said using unlicensed frequencies comprises using unlicensed frequencies over a short-range link in Time Division Duplex operation.

24. (Previously Presented) The smartphone of Claim 22,

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and

wherein the operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

25-30. (Cancelled)

## REMARKS

With this amendment, claims 1-2 and 4-5 are amended. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

No fees are believed to be due with this filing. If it is determined fees are due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: November 30, 2023

By: /Aaron W. Pederson/
Aaron W. Pederson
Reg. No. 58,607
(612) 436-9609

| Notice of References Cited | Application/Control No. 18/489,517 | Applicant(s)/Patent Under Reexamination Karabinis et al. | |
|---|---|---|---|
| | Examiner MICHAEL T VU | Art Unit 2641 | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | | Document Number Country Code-Number-Kind Code | Date YYYY-MM-DD | Name | CPC Classification | US Classification |
|---|---|---|---|---|---|---|
| * | A | US-8665062-B2 | 2014-03-04 | Bragagnini; Andrea | G07C9/38 | 235/382 |
| | B | | | | | |
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**FOREIGN PATENT DOCUMENTS**

| * | | Document Number Country Code-Number-Kind Code | Date YYYY-MM-DD | Country | Name | CPC Classification |
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| | N | | | | | |
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**NON-PATENT DOCUMENTS**

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

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

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

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

**CLAIMS**

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

| CLAIM | | DATE | | | | | | | | |
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| Final | Original | 12/06/2023 | | | | | | | | |
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| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

| CPC - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04W 48/04 | 12/06/2023 | MTV |

| CPC Combination Sets - Searched* | | |
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| Symbol | Date | Examiner |
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| US Classification - Searched* | | | |
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| 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 |
| Inventor Name: Peter D. Karabinis | 12/06/2023 | MTV |
| Assignee: Telcom Ventures | 12/06/2023 | MTV |
| Double Patent Rejected | 12/06/2023 | MTV |
| OC Searched Sytem | 12/06/2023 | MTV |

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

| /MICHAEL T VU/<br>Primary Examiner, Art Unit 2641 | |
|---|---|

## PE2E SEARCH - Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | British Equivalents | Time Stamp |
|---|---|---|---|---|---|---|---|
| L1 | 59436 | ((master slave) near2 relationship) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:55 PM |
| L2 | 1021 | ((master slave) near2 relationship) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:55 PM |
| L3 | 0 | ((master slave) near2 relationship) SAME (authorization authenticat$3) SAME (sens$3 near6 (value near4 parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:56 PM |
| L4 | 2 | ((master slave) near2 relationship) SAME (authorization authenticat$3) SAME | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, | OR | ON | ON | 2023/12/05 12:56 PM |

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|---|---|---|---|---|---|---|---|
| | | (sens$3 near6 (value parameter)) | CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L5 | 252 | ((master slave) near2 relationship) SAME (sens$3 near6 (value parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L6 | 8876 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L7 | 173 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, | OR | ON | ON | 2023/12/05 12:57 PM |

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| | | | VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L8 | 24 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME ((sens$3 determin$4 detect$3) near6 (value near4 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L9 | 12 | L8 AND ( (H04W12/06 OR H04W4/80 OR H04W12/02 OR H04W12/61 OR H04W12/68 OR H04W4/70 OR H04W88/06 OR H04W12/069 OR H04W16/14 OR H04W24/08 OR H04W4/02 OR H04W4/023 OR H04W48/10 OR H04W60/02 OR H04W76/14 OR H04W76/20 OR H04W84/12 OR H04W84/18).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L10 | 11 | L8 AND ( (H04L63/08 OR H04L9/3239 OR H04L2463/082 OR H04L63/0861 OR H04L63/0869 OR H04L63/107 OR H04L63/1408 OR H04L63/20 OR H04L9/0841 OR H04L9/3236 OR H04L12/28 OR H04L2209/08 OR H04L2209/127 OR H04L2209/16 OR H04L2209/56 OR H04L41/044 OR H04L41/28 OR H04L63/0428 OR H04L63/0435 OR H04L63/0492 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:58 PM |

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| L11 | 19 | ("5646512" \| "6671635" \| "6745138" \| "6751562" \| "6771058" \| "6792337" \| "6820036" \| "6944555" \| "6990395" \| "7188003" \| "7191076" \| "7216043" \| "7248977" \| "7249265" \| "7272815" \| "7290145" \| "20030204756" \| "20050005093" \| "20050144437").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/05 01:01 PM |
| L12 | 87 | L7 AND ( (H04W76/14 OR H04W12/06 OR H04W4/80 OR H04W12/65 OR H04W4/70 OR H04W12/68 OR H04W12/065 OR H04W12/04 OR H04W84/18 OR H04W12/041 OR H04W12/33 OR H04W12/50 OR H04W12/037 OR H04W76/10 OR H04W4/38 OR H04W4/12 OR H04W4/21 OR H04W84/14 OR H04W12/069 OR H04W12/63 OR H04W12/64 OR H04W12/77 OR H04W76/25 OR H04W76/30 OR H04W12/068 OR H04W12/08 OR H04W12/10 OR H04W4/021 OR H04W40/02 OR H04W72/30 OR H04W92/02 OR H04W12/02 OR H04W12/033 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 01:01 PM |

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| | | H04W12/084 OR H04W12/104 OR H04W12/12 OR H04W12/126 OR H04W12/79 OR H04W4/029 OR H04W4/06 OR H04W48/20 OR H04W72/0453 OR H04W76/23 OR H04W76/34 OR H04W8/005 OR H04W8/18 OR H04W8/26 OR H04W88/00 OR H04W24/00 OR H04W28/26 OR H04W48/08 OR H04W48/10 OR H04W48/12 OR H04W48/16 OR H04W52/0203 OR H04W52/0209 OR H04W52/0216 OR H04W52/0219 OR H04W52/0235 OR H04W52/0251 OR H04W52/0277 OR H04W72/0446 OR H04W72/542 OR H04W74/04 OR H04W84/12 OR H04W84/20 OR H04W84/22).cpc.) | | | | | |
| L13 | 7352 | (financial ADJ transaction) SAME (value parameter) SAME (authorizat$4 authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:09 AM |
| L14 | 151 | (financial ADJ transaction) SAME (value near8 parameter) SAME (authorizat$4 authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, | OR | ON | ON | 2023/12/07 10:09 AM |

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| | | | IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L15 | 30 | L14 AND ( (H04W12/06 OR H04W4/80 OR H04W12/33 OR H04W12/50 OR H04W84/18 OR H04W88/02 OR H04W4/02 OR H04W12/126 OR H04W12/63 OR H04W12/065 OR H04W64/00 OR H04W8/20 OR H04W12/068 OR H04W12/02 OR H04W12/037 OR H04W12/041 OR H04W12/0433 OR H04W12/08 OR H04W12/10 OR H04W12/60 OR H04W12/61 OR H04W12/66 OR H04W12/68 OR H04W24/02 OR H04W4/00 OR H04W4/023 OR H04W4/029 OR H04W48/04 OR H04W72/04 OR H04W76/10 OR H04W76/11 OR H04W8/02 OR H04W8/082 OR H04W8/18 OR H04W8/26 OR H04W80/04 OR H04W84/12 OR H04W88/06 OR H04W88/16 OR H04W88/182).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:09 AM |
| L16 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8091780" \| "8249935" \| "8463238" \| "8532069" \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L17 | 11 | ("6738964" \| "20010052846" \| "20030014643" \| "20030023554" \| "20030187787" \| "20050097038" \| "20060026205" \| "20070095892" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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|---|---|---|---|---|---|---|---|
| | | "20070152035" \| "20070235539" \| "20080161045").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L18 | 93 | L14 AND ( (G06Q20/40 OR G06Q40/02 OR G06Q20/10 OR G06Q20/3278 OR G06Q20/382 OR G06Q20/4016 OR G06Q20/3224 OR G06Q20/322 OR G06Q20/4014 OR G06Q20/108 OR G06Q20/387 OR G06Q40/03 OR G06Q30/02 OR G06Q40/00 OR G06Q40/12 OR G06Q30/0215 OR G06Q20/105 OR G06Q20/1085 OR G06Q20/425 OR G06Q30/06 OR G06Q10/10 OR G06Q20/3223 OR G06Q20/367 OR G06Q20/385 OR G06Q30/0224 OR G06Q30/0241 OR G06Q30/0255 OR G06Q50/265 OR G06Q20/12 OR G06Q20/20 OR G06Q20/325 OR G06Q20/3674 OR G06Q20/02 OR G06Q20/341 OR G06Q20/405 OR G06Q20/04 OR G06Q20/3226 OR G06Q20/327 OR G06Q20/347 OR G06Q20/3821 OR G06Q20/38215 OR G06Q20/384 OR G06Q20/401 OR G06Q20/40145 OR G06Q30/0207 OR G06Q30/0222 OR G06Q30/0233 OR G06Q30/0601 OR G06Q20/045 OR G06Q20/047 OR G06Q20/145 OR G06Q20/3227 OR G06Q20/34 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:10 AM |

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|---|---|---|---|---|---|---|---|
| | | G06Q20/3829 OR G06Q20/4018 OR G06Q20/403 OR G06Q20/407 OR G06Q20/409 OR G06Q20/42 OR G06Q2220/00 OR G06Q30/0201 OR G06Q30/0228 OR G06Q30/0269 OR G06Q10/00 OR G06Q10/105 OR G06Q20/027 OR G06Q20/102 OR G06Q20/227 OR G06Q20/32 OR G06Q20/326 OR G06Q20/3672 OR G06Q20/4037 OR G06Q20/023 OR G06Q20/085 OR G06Q20/0855 OR G06Q20/24 OR G06Q20/28 OR G06Q20/3229 OR G06Q20/3255 OR G06Q20/349 OR G06Q20/3572 OR G06Q20/363 OR G06Q20/3823 OR G06Q20/3825 OR G06Q20/389 OR G06Q20/4012 OR G06Q20/4015 OR G06Q20/4093 OR G06Q30/00 OR G06Q30/0208 OR G06Q30/0226 OR G06Q30/0231 OR G06Q30/0248 OR G06Q30/0251 OR G06Q30/0252 OR G06Q40/04 OR G06Q40/06 OR G06Q50/01 OR G06Q50/10 OR G06Q50/205 OR G06Q50/22).cpc.) | | | | | |
| L19 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" \| "8091780" \| "8249935" \| "8463238" \| "8532069" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L20 | 5 | ("7599993" \| "20030008662" \| "20040147255" \| "20050134696" \| "20050181780").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:11 AM |
| L21 | 56 | L14 AND ( (G06F21/32 OR G06F18/21 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, | OR | ON | ON | 2023/12/07 10:11 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F21/35 OR G06F21/60 OR G06F21/554 OR G06F21/608 OR G06F2221/2115 OR G06F21/34 OR G06F21/606 OR G06F2221/2101 OR G06F16/248 OR G06F18/00 OR G06F21/31 OR G06F21/45 OR G06F21/46 OR G06F21/6218 OR G06F2221/2111 OR G06F16/10 OR G06F16/284 OR G06F21/602 OR G06F21/6209 OR G06F21/6245 OR G06F21/72 OR G06F2207/7252 OR G06F3/0325 OR G06F3/03545 OR G06F3/0423 OR G06F3/0425 OR G06F3/0428 OR G06F3/04847 OR G06F7/00).cpc.) | AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L22 | 15 | ("6671810" \| "8667280" \| "8744075" \| "20020144128" \| "20080098464" \| "20080163334" \| "20100235629" \| "20100287382" \| "20110066607" \| "20110179478" \| "20110208964" \| "20130124292" \| "20140033321" \| "20140282875" \| "20150172273").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:11 AM |
| L23 | 6 | ("6130621" \| "6377792" \| "6985583" \| "20030105964" \| "20040172535" \| "20060020960").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |
| L24 | 41 | L14 AND ( (H04L63/0861 OR H04L63/0853 OR H04L63/0838 OR H04L63/08 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, | OR | ON | ON | 2023/12/07 10:12 AM |

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|---|---|---|---|---|---|---|---|
| | | H04L63/0428 OR H04L63/083 OR H04L1/24 OR H04L2209/80 OR H04L2209/56 OR H04L2209/60 OR H04L63/06 OR H04L63/105 OR H04L9/3231 OR H04L9/3239 OR H04L2463/082 OR H04L63/0869 OR H04L63/1466 OR H04L9/0841 OR H04L9/0869 OR H04L9/088 OR H04L9/50 OR H04L2209/04 OR H04L2463/081 OR H04L45/08 OR H04L45/30 OR H04L61/59 OR H04L63/0281 OR H04L63/0823 OR H04L63/123 OR H04L67/133 OR H04L67/30 OR H04L67/306 OR H04L67/52 OR H04L67/535 OR H04L67/56 OR H04L9/00 OR H04L9/002 OR H04L9/003 OR H04L9/0631 OR H04L9/0643 OR H04L9/3236).cpc.) | EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L25 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" \| "8091780" \| "8249935" \| "8463238" \| "8532069" \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |

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|---|---|---|---|---|---|---|---|
| | | "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L26 | 15 | ("6671810" \| "8667280" \| "8744075" \| "20020144128" \| "20080098464" \| "20080163334" \| "20100235629" \| "20100287382" \| "20110066607" \| "20110179478" \| "20110208964" \| "20130124292" \| "20140033321" \| "20140282875" \| "20150172273").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |
| L27 | 6 | ("6130621" \| "6377792" \| "6985583" \| "20030105964" \| "20040172535" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:13 AM |

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|---|---|---|---|---|---|---|---|
| | | "20060020960").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L28 | 13 | L14 AND ( (H04W12/06 OR H04W4/80 OR H04W12/33 OR H04W12/50 OR H04W84/18 OR H04W88/02 OR H04W4/02 OR H04W12/126 OR H04W12/63 OR H04W12/065 OR H04W64/00 OR H04W8/20 OR H04W12/068 OR H04W12/02 OR H04W12/037 OR H04W12/041 OR H04W12/0433 OR H04W12/08 OR H04W12/10 OR H04W12/60 OR H04W12/61 OR H04W12/66 OR H04W12/68 OR H04W24/02 OR H04W4/00 OR H04W4/023 OR H04W4/029 OR H04W48/04 OR H04W72/04 OR H04W76/10 OR H04W76/11 OR H04W8/02 OR H04W8/082 OR H04W8/18 OR H04W8/26 OR H04W80/04 OR H04W84/12 OR H04W88/06 OR H04W88/16 OR H04W88/182).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:19 AM |
| L29 | 2 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value near6 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; | OR | ON | ON | 2023/12/07 10:19 AM |

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| | | | JPO; DERWENT; IBM_TDB) | | | | |
| L30 | 241 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (value near6 parameter) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:20 AM |
| L31 | 88 | L30 AND ( (H04W12/06 OR H04W4/80 OR H04W84/12 OR H04W84/18 OR H04W76/10 OR H04W12/069 OR H04W12/50 OR H04W52/50 OR H04W8/005 OR H04W12/02 OR H04W48/10 OR H04W48/16 OR H04W4/06 OR H04W12/0431 OR H04W12/08 OR H04W12/082 OR H04W56/001 OR H04W88/06 OR H04W12/03 OR H04W12/04 OR H04W12/041 OR H04W12/35 OR H04W28/18 OR H04W52/42 OR H04W84/20 OR H04W12/068 OR H04W4/40 OR H04W40/00 OR H04W52/08 OR H04W52/146 OR H04W52/18 OR H04W52/24 OR H04W52/243 OR H04W52/286 OR H04W52/362 OR H04W52/367 OR H04W52/46 OR H04W52/54 OR H04W72/0473 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:21 AM |

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|---|---|---|---|---|---|---|---|
| | | H04W74/002 OR<br>H04W76/14 OR<br>H04W12/0471 OR<br>H04W12/104 OR<br>H04W12/122 OR<br>H04W12/55 OR<br>H04W12/61 OR<br>H04W12/63 OR<br>H04W12/68 OR<br>H04W16/14 OR<br>H04W24/00 OR<br>H04W24/08 OR<br>H04W4/02 OR<br>H04W4/021 OR<br>H04W4/023 OR<br>H04W4/029 OR<br>H04W4/70 OR<br>H04W48/18 OR<br>H04W60/02 OR<br>H04W76/00 OR<br>H04W76/12 OR<br>H04W76/20 OR<br>H04W76/40 OR<br>H04W8/00 OR<br>H04W8/02 OR<br>H04W8/26 OR<br>H04W80/10 OR<br>H04W92/02 OR<br>H04W92/14 OR<br>H04W12/037 OR<br>H04W12/0433 OR<br>H04W12/108 OR<br>H04W12/37 OR<br>H04W12/40 OR<br>H04W12/65 OR<br>H04W12/69 OR<br>H04W12/71 OR<br>H04W36/0011 OR<br>H04W36/0083 OR<br>H04W36/00837 OR<br>H04W36/26 OR<br>H04W4/08 OR<br>H04W4/24 OR<br>H04W4/50 OR<br>H04W40/02 OR<br>H04W40/24 OR<br>H04W40/246 OR<br>H04W48/08 OR<br>H04W48/12 OR<br>H04W52/00 OR<br>H04W64/00 OR<br>H04W72/0446 OR<br>H04W72/0466 OR<br>H04W72/21 OR<br>H04W72/23 OR<br>H04W72/54 OR<br>H04W74/02 OR<br>H04W74/06 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04W74/08 OR H04W76/15 OR H04W76/28 OR H04W84/10 OR H04W88/10).cpc.) | | | | | |
| L32 | 2 | ("20200099522" \| "20210044972").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:21 AM |
| L33 | 13 | ("6058188" \| "8166309" \| "8418242" \| "8694782" \| "20040158708" \| "20040193875" \| "20050015602" \| "20060104243" \| "20060253704" \| "20070022469" \| "20070098178" \| "20090323972" \| "20110039592").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:21 AM |
| L34 | 138 | L30 AND ( (H04L63/08 OR H04L2209/80 OR H04L63/0823 OR H04L9/3247 OR H04L63/10 OR H04L63/0428 OR H04L63/0869 OR H04L9/3236 OR H04L2209/805 OR H04L63/123 OR H04L63/061 OR H04L63/18 OR H04L9/00 OR H04L9/14 OR H04L2209/56 OR H04L41/0806 OR H04L63/062 OR H04L63/083 OR H04L63/1458 OR H04L9/0819 OR H04L9/3215 OR H04L9/3242 OR H04L41/12 OR H04L63/0853 OR H04L63/126 OR H04L9/08 OR H04L9/32 OR H04L9/3234 OR H04L9/3263 OR H04L9/3271 OR H04L2012/2841 OR H04L2209/60 OR H04L63/0442 OR H04L63/045 OR H04L63/0876 OR H04L67/025 OR H04L7/0012 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:22 AM |

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| | | H04L9/0637 OR<br>H04L9/0866 OR<br>H04L9/088 OR<br>H04L9/0894 OR<br>H04L9/302 OR<br>H04L9/3249 OR<br>H04L12/2816 OR<br>H04L2463/082 OR<br>H04L63/06 OR<br>H04L67/10 OR<br>H04L67/125 OR<br>H04L9/0643 OR<br>H04L9/0841 OR<br>H04L9/0869 OR<br>H04L9/0891 OR<br>H04L9/3239 OR<br>H04L1/0001 OR<br>H04L12/18 OR<br>H04L27/2655 OR<br>H04L41/0843 OR<br>H04L63/20 OR<br>H04L9/0852 OR<br>H04L9/0861 OR<br>H04L9/0897 OR<br>H04L9/50 OR<br>H04L12/28 OR<br>H04L2209/08 OR<br>H04L2209/46 OR<br>H04L61/5014 OR<br>H04L63/0435 OR<br>H04L63/068 OR<br>H04L63/0861 OR<br>H04L67/1097 OR<br>H04L69/14 OR<br>H04L69/18 OR<br>H04L69/24 OR<br>H04L9/3231 OR<br>H04L9/3278 OR<br>H04L1/02 OR<br>H04L12/4641 OR<br>H04L2209/12 OR<br>H04L41/147 OR<br>H04L45/24 OR<br>H04L45/586 OR<br>H04L51/21 OR<br>H04L51/52 OR<br>H04L61/35 OR<br>H04L63/0281 OR<br>H04L63/101 OR<br>H04L63/107 OR<br>H04L63/1408 OR<br>H04L63/1441 OR<br>H04L63/164 OR<br>H04L65/00 OR<br>H04L67/133 OR<br>H04L67/52 OR<br>H04L67/54 OR<br>H04L69/32 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04L7/00 OR<br>H04L9/008 OR<br>H04L9/0822 OR<br>H04L9/083 OR<br>H04L9/0838 OR<br>H04L9/0844 OR<br>H04L9/0847 OR<br>H04L9/085 OR<br>H04L9/0877 OR<br>H04L9/3013 OR<br>H04L9/3033 OR<br>H04L9/3218 OR<br>H04L9/3221 OR<br>H04L9/3268 OR<br>H04L9/3297 OR<br>H04L1/0029 OR<br>H04L1/1806 OR<br>H04L1/1812 OR<br>H04L1/1822 OR<br>H04L1/1835 OR<br>H04L1/1887 OR<br>H04L12/12 OR<br>H04L12/14 OR<br>H04L12/1403 OR<br>H04L12/1446 OR<br>H04L12/1467 OR<br>H04L2012/2849 OR<br>H04L2101/604 OR<br>H04L2101/622 OR<br>H04L2209/046 OR<br>H04L2209/122 OR<br>H04L2209/127 OR<br>H04L2209/16 OR<br>H04L2209/34 OR<br>H04L2209/50 OR<br>H04L2209/603 OR<br>H04L2209/64 OR<br>H04L2463/101 OR<br>H04L2463/141 OR<br>H04L25/03343 OR<br>H04L27/2603 OR<br>H04L27/2613 OR<br>H04L41/00 OR<br>H04L41/044 OR<br>H04L41/0803 OR<br>H04L41/082 OR<br>H04L41/0826 OR<br>H04L41/083 OR<br>H04L41/20 OR<br>H04L41/28 OR<br>H04L43/0829 OR<br>H04L43/0852 OR<br>H04L45/02 OR<br>H04L45/12 OR<br>H04L49/30 OR<br>H04L49/90 OR<br>H04L49/901 OR<br>H04L49/9031 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04L5/0048 OR H04L5/0051 OR H04L51/04 OR H04L51/222 OR H04L61/2514 OR H04L61/2517 OR H04L61/2582 OR H04L63/0272 OR H04L63/0421 OR H04L63/0485 OR H04L63/0492 OR H04L63/065 OR H04L63/0807 OR H04L63/102 OR H04L63/105 OR H04L63/108 OR H04L63/12 OR H04L63/16 OR H04L63/162 OR H04L63/166 OR H04L65/1016 OR H04L65/1083 OR H04L65/1093 OR H04L65/1101 OR H04L65/1104 OR H04L65/403 OR H04L65/61 OR H04L65/762 OR H04L65/80 OR H04L67/04 OR H04L67/06 OR H04L67/1051 OR H04L67/108 OR H04L67/1095 OR H04L67/12 OR H04L67/131 OR H04L67/141 OR H04L67/30 OR H04L67/34 OR H04L67/51 OR H04L67/56 OR H04L9/001 OR H04L9/003 OR H04L9/0833 OR H04L9/0863 OR H04L9/12 OR H04L9/30 OR H04L9/3066 OR H04L9/3093 OR H04L9/321 OR H04L9/3213 OR H04L9/3226 OR H04L9/3252 OR H04L9/3257 OR H04L9/3273 OR H04L9/40).cpc.) | | | | | |
| L35 | 31 | L30 AND ( (G06Q10/083 OR G06Q10/0836 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, | OR | ON | ON | 2023/12/07 10:22 AM |

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|---|---|---|---|---|---|---|---|
| | | G06Q10/109 OR G06Q20/202 OR G06Q20/208 OR G06Q20/341 OR G06Q50/01 OR G06Q20/326 OR G06Q20/40975 OR G06Q30/00 OR G06Q10/06 OR G06Q10/0833 OR G06Q10/10 OR G06Q20/308 OR G06Q20/3224 OR G06Q20/3674 OR G06Q10/0631 OR G06Q10/0633 OR G06Q10/06395 OR G06Q10/08 OR G06Q10/087 OR G06Q10/20 OR G06Q20/102 OR G06Q20/227 OR G06Q20/321 OR G06Q20/3223 OR G06Q20/3829 OR G06Q20/401 OR G06Q20/4014 OR G06Q20/405 OR G06Q20/409 OR G06Q30/018 OR G06Q30/04 OR G06Q40/08 OR G06Q40/12 OR G06Q50/00 OR G06Q50/28).cpc.) | CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L36 | 43 | ("7376969" \| "8910188" \| "9378361" \| "9641544" \| "9667641" \| "9679125" \| "9690933" \| "9881179" \| "9911290" \| "9985984" \| "1028981" \| "10298444" \| "20040221163" \| "20050262343" \| "20060112039" \| "20090099988" \| "20110302653" \| "20110320816" \| "20120191630" \| "20120290879" \| "20130139179" \| "20140181968" \| "20140245439" \| "20150161237" \| "20160006730" \| "20160026656" \| "20160034712" \| "20160224618" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |

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|---|---|---|---|---|---|---|---|
| | | "20160030884" \| "20160308884" \| "20160308898" \| "20160335425" \| "20160357301" \| "20170063909" \| "20170093910" \| "20170272521" \| "20170277727" \| "20170351739" \| "20180069893" \| "20180314742" \| "20190036971" \| "20190173893").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L37 | 570 | ("4996687" \| "5051947" \| "5339392" \| "5495600" \| "5691917" \| "5706494" \| "5802262" \| "5802523" \| "5822750" \| "5826077" \| "5850544" \| "5857182" \| "5918225" \| "5920716" \| "5937195" \| "5937401" \| "6006235" \| "6011916" \| "6041344" \| "6081801" \| "6092065" \| "6108666" \| "6112198" \| "6128610" \| "6158045" \| "6212673" \| "6219660" \| "6263332" \| "6278994" \| "6282537" \| "6341281" \| "6353821" \| "6367034" \| "6370537" \| "6389436" \| "6397262" \| "6418448" \| "6438540" \| "6438559" \| "6439783" \| "6449620" \| "6453314" \| "6507834" \| "6523102" \| "6546381" \| "6615203" \| "6633867" \| "6681343" \| "6708186" \| "6718278" \| "6748386" \| "6751619" \| "6766330" \| "6785677" \| "6826566" \| "6836778" \| "6850925" \| "6856981" \| "6904019" \| "6954791" \| "6985904" \| "6986019" \| "6996557" \| "7020696" \| "7047249" \| "7051034" \| "7062749" \| "7080062" \| "7093023" \| "7139977" \| "7145938" \| "7146352" \| "7167848" \| "7203927" \| "7224185" \| "7225188" \| "7236972" \| "7263464" \| "7284041" \| "7305391" \| "7308561" \| "7310638" \| "7348981" \| "7376656" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "7383253" \| "7403959"<br>\| "7430549" \| "7440461"<br>\| "7451143" \| "7475058"<br>\| "7483976" \| "7516121"<br>\| "7519577" \| "7519962"<br>\| "7526804" \| "7533087"<br>\| "7546284" \| "7552365"<br>\| "7567953" \| "7580946"<br>\| "7587383" \| "7603674"<br>\| "7613848" \| "7620851"<br>\| "7630982" \| "7634501"<br>\| "7636703" \| "7644066"<br>\| "7653645" \| "7672964"<br>\| "7673065" \| "7676461"<br>\| "7689622" \| "7693891"<br>\| "7702629" \| "7702639"<br>\| "7711782" \| "7716210"<br>\| "7739265" \| "7805445"<br>\| "7814111" \| "7818313"<br>\| "7823066" \| "7827146"<br>\| "7827190" \| "7844829"<br>\| "7870124" \| "7870167"<br>\| "7877381" \| "7895187"<br>\| "7912853" \| "7917299"<br>\| "7930322" \| "7945540"<br>\| "7953728" \| "7954109"<br>\| "7979420" \| "7984043"<br>\| "7987204" \| "7988817"<br>\| "7991766" \| "7996388"<br>\| "8019747" \| "8032544"<br>\| "8046747" \| "8073826"<br>\| "8099400" \| "8103655"<br>\| "8112378" \| "8122006"<br>\| "8134184" \| "8145686"<br>\| "8145859" \| "8155880"<br>\| "8190738" \| "8195648"<br>\| "8204873" \| "8204875"<br>\| "8260803" \| "8290776"<br>\| "8296316" \| "8307197"<br>\| "8307343" \| "8315990"<br>\| "8316012" \| "8321450"<br>\| "8332502" \| "8346511"<br>\| "8352517" \| "8370812"<br>\| "8386466" \| "8387076"<br>\| "8392402" \| "8396886"<br>\| "8447744" \| "8458175"<br>\| "8498956" \| "8521867"<br>\| "8527458" \| "8543558"<br>\| "8572589" \| "8589436"<br>\| "8595840" \| "8676841"<br>\| "8713038" \| "8713049"<br>\| "8719207" \| "8738572"<br>\| "8745070" \| "8762369"<br>\| "8775412" \| "8880493"<br>\| "9015102" \| "9047249"<br>\| "9058360" \| "9098587"<br>\| "9110945" \| "9189280"<br>\| "9244978" \| "9256646" | | | | | |

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|---|---|---|---|---|---|---|---|
| | | \| "9262258" \| "9262479"<br>\| "9286352" \| "9292574"<br>\| "9305057" \| "9305238"<br>\| "9329975" \| "9361308"<br>\| "9390135" \| "9418113"<br>\| "9430494" \| "9535761"<br>\| "9563663" \| "9703836"<br>\| "9712645" \| "9715529"<br>\| "9756104" \| "9804892"<br>\| "9805095" \| "9852186"<br>\| "9886486" \| "9934279"<br>\| "9946756" \| "9953059"<br>\| "9972103" \| "9990410"<br>\| "20020023211" \|<br>"20020032804" \|<br>"20020038217" \|<br>"20020038306" \|<br>"20020038313" \|<br>"20020049788" \|<br>"20020056004" \|<br>"20020073399" \|<br>"20020116362" \|<br>"20020116371" \|<br>"20020133484" \|<br>"20020169788" \|<br>"20030014408" \|<br>"20030037048" \|<br>"20030046673" \|<br>"20030065655" \|<br>"20030065659" \|<br>"20030120682" \|<br>"20030135304" \|<br>"20030200198" \|<br>"20030212664" \|<br>"20030229652" \|<br>"20030236766" \|<br>"20040010496" \|<br>"20040019592" \|<br>"20040024773" \|<br>"20040030421" \|<br>"20040064466" \|<br>"20040073534" \|<br>"20040088404" \|<br>"20040117359" \|<br>"20040136598" \|<br>"20040151382" \|<br>"20040153329" \|<br>"20040167864" \|<br>"20040168107" \|<br>"20040177053" \|<br>"20040201612" \|<br>"20040205082" \|<br>"20040220896" \|<br>"20040220912" \|<br>"20040220927" \|<br>"20040243590" \|<br>"20040267760" \|<br>"20040268314" \| | | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20050010896" \|<br>"20050027698" \|<br>"20050055338" \|<br>"20050065949" \|<br>"20050071217" \|<br>"20050096124" \|<br>"20050097128" \|<br>"20050108368" \|<br>"20050120016" \|<br>"20050154740" \|<br>"20050174940" \|<br>"20050177579" \|<br>"20050192921" \|<br>"20050204340" \|<br>"20050229158" \|<br>"20050273352" \|<br>"20050273450" \|<br>"20050289125" \|<br>"20060007308" \|<br>"20060015482" \|<br>"20060031204" \|<br>"20060047696" \|<br>"20060064487" \|<br>"20060080646" \|<br>"20060085592" \|<br>"20060089939" \|<br>"20060100957" \|<br>"20060100969" \|<br>"20060106786" \|<br>"20060106797" \|<br>"20060129554" \|<br>"20060155719" \|<br>"20060166704" \|<br>"20060167704" \|<br>"20060167856" \|<br>"20060167869" \|<br>"20060212441" \|<br>"20060224576" \|<br>"20060230029" \|<br>"20060235840" \|<br>"20060242180" \|<br>"20060282429" \|<br>"20060294095" \|<br>"20070016467" \|<br>"20070039049" \|<br>"20070050340" \|<br>"20070076314" \|<br>"20070118600" \|<br>"20070136239" \|<br>"20070136254" \|<br>"20070156787" \|<br>"20070156964" \|<br>"20070168154" \|<br>"20070192301" \|<br>"20070198479" \|<br>"20070022092" \|<br>"20070214171" \|<br>"20070226188" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20070226239" \|<br>"20070250487" \|<br>"20070271280" \|<br>"20070294217" \|<br>"20080005093" \|<br>"20080010093" \|<br>"20080010241" \|<br>"20080016095" \|<br>"20080028095" \|<br>"20080033914" \|<br>"20080034427" \|<br>"20080046401" \|<br>"20080071904" \|<br>"20080077570" \|<br>"20080077587" \|<br>"20080077780" \|<br>"20080082484" \|<br>"20080082514" \|<br>"20080086321" \|<br>"20080098359" \|<br>"20080098370" \|<br>"20080110397" \|<br>"20080114787" \|<br>"20080120283" \|<br>"20080120321" \|<br>"20080162583" \|<br>"20080195577" \|<br>"20080235298" \|<br>"20080243451" \|<br>"20080243675" \|<br>"20080250073" \|<br>"20080255847" \|<br>"20080263039" \|<br>"20080270764" \|<br>"20080275891" \|<br>"20080281782" \|<br>"20080301086" \|<br>"20080301124" \|<br>"20080301125" \|<br>"20080301135" \|<br>"20080301256" \|<br>"20080313131" \|<br>"20090006320" \|<br>"20090006346" \|<br>"20090007098" \|<br>"20090019045" \|<br>"20090024622" \|<br>"20090043729" \|<br>"20090070355" \|<br>"20090070785" \|<br>"20090070786" \|<br>"20090076899" \|<br>"20090088962" \|<br>"20090100029" \|<br>"20090106189" \|<br>"20090106190" \|<br>"20090106198" \|<br>"20090106214" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20090106215" \|<br>"20090106218" \|<br>"20090106321" \|<br>"20090106440" \|<br>"20090112779" \|<br>"20090112802" \|<br>"20090112803" \|<br>"20090112809" \|<br>"20090112853" \|<br>"20090125550" \|<br>"20090125916" \|<br>"20090132503" \|<br>"20090133041" \|<br>"20090144696" \|<br>"20090172014" \|<br>"20090182779" \|<br>"20090187584" \|<br>"20090192981" \|<br>"20090216747" \|<br>"20090216860" \|<br>"20090222730" \|<br>"20090228431" \|<br>"20090228434" \|<br>"20090228465" \|<br>"20090245236" \|<br>"20090248749" \|<br>"20090254522" \|<br>"20090257314" \|<br>"20090265324" \|<br>"20090271529" \|<br>"20090282021" \|<br>"20090292979" \|<br>"20090293046" \|<br>"20090300093" \|<br>"20090300181" \|<br>"20090300580" \|<br>"20090300615" \|<br>"20090313198" \|<br>"20090319501" \|<br>"20090327102" \|<br>"20090327257" \|<br>"20100017379" \|<br>"20100017380" \|<br>"20100022627" \|<br>"20100023498" \|<br>"20100036803" \|<br>"20100036831" \|<br>"20100049710" \|<br>"20100057663" \|<br>"20100057727" \|<br>"20100057735" \|<br>"20100057736" \|<br>"20100057737" \|<br>"20100094838" \|<br>"20100106710" \|<br>"20100106946" \|<br>"20100125572" \|<br>"20100125574" \| | | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20100125584" \|<br>"20100138405" \|<br>"20100161589" \|<br>"20100223283" \|<br>"20100223305" \|<br>"20100223437" \|<br>"20100223606" \|<br>"20100250572" \|<br>"20100293135" \|<br>"20100312756" \|<br>"20100318652" \|<br>"20100332401" \|<br>"20110004621" \|<br>"20110016123" \|<br>"20110016160" \|<br>"20110022618" \|<br>"20110023055" \|<br>"20110029484" \|<br>"20110029485" \|<br>"20110035253" \|<br>"20110040746" \|<br>"20110040827" \|<br>"20110055192" \|<br>"20110055197" \|<br>"20110084967" \|<br>"20110093162" \|<br>"20110093491" \|<br>"20110105857" \|<br>"20110131588" \|<br>"20110161321" \|<br>"20110161328" \|<br>"20110161352" \|<br>"20110161356" \|<br>"20110161397" \|<br>"20110173231" \|<br>"20110173235" \|<br>"20110196839" \|<br>"20110196891" \|<br>"20110213802" \|<br>"20110246445" \|<br>"20110270879" \|<br>"20110282812" \|<br>"20110295841" \|<br>"20110302164" \|<br>"20110313844" \|<br>"20110314019" \|<br>"20110321057" \|<br>"20120016866" \|<br>"20120041934" \|<br>"20120072455" \|<br>"20120078951" \|<br>"20120116982" \|<br>"20120130963" \|<br>"20120131139" \|<br>"20120166417" \|<br>"20120166421" \|<br>"20120166469" \|<br>"20120191697" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20120233107" \|<br>"20120259910" \|<br>"20120278473" \|<br>"20120284420" \|<br>"20120290715" \|<br>"20120291049" \|<br>"20120323941" \|<br>"20120324453" \|<br>"20130007539" \|<br>"20130014088" \|<br>"20130031567" \|<br>"20130046725" \|<br>"20130066855" \|<br>"20130117317" \|<br>"20130144866" \|<br>"20130191370" \|<br>"20130262399" \|<br>"20130275452" \|<br>"20130332240" \|<br>"20140019194" \|<br>"20140059109" \|<br>"20140082013" \|<br>"20140095425" \|<br>"20140095444" \|<br>"20140095445" \|<br>"20140095446" \|<br>"20140095447" \|<br>"20140095462" \|<br>"20140095471" \|<br>"20140095473" \|<br>"20140095483" \|<br>"20140095525" \|<br>"20140095529" \|<br>"20140095533" \|<br>"20140095535" \|<br>"20140095537" \|<br>"20140095540" \|<br>"20140095541" \|<br>"20140095543" \|<br>"20140136514" \|<br>"20140156683" \|<br>"20140172506" \|<br>"20140172914" \|<br>"20140201225" \|<br>"20140236983" \|<br>"20140237289" \|<br>"20140237487" \|<br>"20140324530" \|<br>"20140358959" \|<br>"20140379712" \|<br>"20150007320" \|<br>"20150156241" \|<br>"20150161214" \|<br>"20150227415" \|<br>"20150363464" \|<br>"20150381712" \|<br>"20160034311" \|<br>"20160085809" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20160085810" \| "20160103882" \| "20160127517" \| "20160140180" \| "20160154855" \| "20160283555" \| "20170024912" \| "20170075726" \| "20180046511").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L38 | 3 | ("8060582" \| "8150848" \| "8650024").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |
| L39 | 17 | L30 AND ( (H04B7/00 OR H04B1/7143 OR H04B10/70 OR H04B15/00 OR H04B15/005 OR H04B5/00 OR H04B7/022 OR H04B7/026 OR H04B1/0475 OR H04B7/24).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:24 AM |
| L40 | 446 | (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (blood ADJ pressure) AND (heart ADJ rate) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:30 AM |
| L41 | 81 | (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (location position) AND | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, | OR | ON | ON | 2023/12/07 10:32 AM |

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|---|---|---|---|---|---|---|---|
| | | humidity AND temperature AND height AND (brightness dakness) AND (blood ADJ pressure) AND (heart ADJ rate) | PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L42 | 18 | L41 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:32 AM |
| L43 | 21 | L41 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:32 AM |
| L44 | 18 | L41 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:33 AM |
| L45 | 20 | L41 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, | OR | ON | ON | 2023/12/07 10:33 AM |

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|---|---|---|---|---|---|---|---|
| | | H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L46 | 9 | L41 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:33 AM |
| L47 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:34 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L48 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:34 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | |
| L49 | 9 | L41 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L50 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L51 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L52 | 81 | (phone mobile pda portable cellular iphone ipda watch (smart ADJ phone)) AND (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (location position) AND humidity AND temperature AND height AND (brightness dakness) AND (blood ADJ pressure) AND (heart ADJ rate) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:39 AM |
| L53 | 18 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, | OR | ON | ON | 2023/12/07 10:40 AM |

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|---|---|---|---|---|---|---|---|
| | | H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L54 | 21 | L52 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:44 AM |
| L55 | 20 | L52 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:44 AM |
| L56 | 9 | L52 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; | OR | ON | ON | 2023/12/07 10:45 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | IBM_TDB) | | | | |
| L57 | 18 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:46 AM |
| L58 | 19 | L52 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:47 AM |
| L59 | 15 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:49 AM |
| L60 | 17 | L52 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:51 AM |
| L61 | 211 | ("20020170961"\|"20030172028"\|"20030220105 | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, | OR | ON | ON | 2023/12/07 11:49 AM |

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| | | "\|"20040030601"\|"2004 0143505"\|"2004014355 0"\|"20040170430"\|"200 50136949"\|"200600092 34"\|"20060085297"\|"20 060133633"\|"20060144 933"\|"20060145893"\|"2 0060159260"\|"2006016 5060"\|"20060172700"\|" 20060194538"\|"200701 29077"\|"20070167147"\| "20070178935"\|"20070 184837"\|"20070197261 "\|"20070198436"\|"2007 0243872"\|"2007025039 3"\|"20070260710"\|"200 70265984"\|"200702852 80"\|"20080040274"\|"20 080140667"\|"20080140 868"\|"20080146148"\|"2 0080167966"\|"2008020 0166"\|"20080227471"\|" 20080306868"\|"200900 23474"\|"20090058637"\| "20090113543"\|"20090 153367"\|"20090169070 "\|"20090213947"\|"2010 0067591"\|"2010026584 5"\|"20110314539"\|"201 20214443"\|"201301562 18"\|"6595929"\|"676960 7"\|"6944981"\|"6957107" \|"7028897"\|"7133659"\|" 7155199"\|"7295846"\|"7 503504"\|"7505941"\|"75 39241"\|"7624923"\|"778 0081"\|"7822644"\|"7912 629"\|"8023580"\|"80503 37"\|"8091780"\|"824993 5"\|"8463238"\|"8532069" \|"8646060"\|"8665062"\|" 8965281"\|"RE39736").P N. | AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L62 | 72 | ("20020170961"\|"20030 172028"\|"20030220105 "\|"20040030601"\|"2004 0143505"\|"2004014355 0"\|"20040170430"\|"200 50136949"\|"200600092 34"\|"20060085297"\|"20 060133633"\|"20060144 933"\|"20060145893"\|"2 0060159260"\|"2006016 5060"\|"20060172700"\|" 20060194538"\|"200701 29077"\|"20070167147"\| "20070178935"\|"20070 184837"\|"20070197261 | (US-PGPUB; USPAT) | OR | ON | ON | 2023/12/07 11:49 AM |

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|---|---|---|---|---|---|---|---|
| | | "\|"20070198436"\|"20070243872"\|"20070250393"\|"20070260710"\|"20070265984"\|"20070285280"\|"20080040274"\|"20080140667"\|"20080140868"\|"20080146148"\|"20080167966"\|"20080200166"\|"20080227471"\|"20080306868"\|"20090023474"\|"20090058637"\|"20090113543"\|"20090153367"\|"20090169070"\|"20090213947"\|"20100067591"\|"20100265845"\|"20110314539"\|"20120214443"\|"20130156218"\|"6595929"\|"6769607"\|"6944981"\|"6957107"\|"7028897"\|"7133659"\|"7155199"\|"7295846"\|"7503504"\|"7505941"\|"7539241"\|"7624923"\|"7780081"\|"7822644"\|"7912629"\|"8023580"\|"8050337"\|"8091780"\|"8249935"\|"8463238"\|"8532069"\|"8646060"\|"8665062"\|"8965281"\|"RE39736").PN. | | | | | |
| L63 | 11 | ("6738964" \| "20010052846" \| "20030014643" \| "20030023554" \| "20030187787" \| "20050097038" \| "20060026205" \| "20070095892" \| "20070152035" \| "20070235539" \| "20080161045").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |
| L64 | 36 | ("5705991" \| "6104922" \| "6703918" \| "6710700" \| "6850147" \| "7362210" \| "7378939" \| "8232862" \| "20020060243" \| "20020066041" \| "20020095608" \| "20020140542" \| "20030115490" \| "20030189480" \| "20040062133" \| "20040257196" \| "20050046545" \| "20050226468" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |

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|---|---|---|---|---|---|---|---|
| | | "20050250472" \| "20060049922" \| "20060219776" \| "20060236373" \| "20060294359" \| "20070057763" \| "20070213096" \| "20080080750" \| "20080175449" \| "20080229409" \| "20080260211" \| "20080261560" \| "20090164798" \| "20090201128" \| "20090237203" \| "20090320538" \| "20100049987" \| "20120253607").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L65 | 5 | ("8045961" \| "20090221266" \| "20090265775" \| "20120030366" \| "20130159119").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |
| L66 | 5 | ("7599993" \| "20030008662" \| "20040147255" \| "20050134696" \| "20050181780").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |
| L67 | 360 | ("4644351" \| "4903212" \| "5031104" \| "5067081" \| "5182555" \| "5187810" \| "5195031" \| "5243652" \| "5337044" \| "5371678" \| "5379057" \| "5406490" \| "5416890" \| "5469362" \| "5519760" \| "5523950" \| "5537460" \| "5539395" \| "5539647" \| "5552989" \| "5559520" \| "5570412" \| "5598572" \| "5628050" \| "5636245" \| "5642303" \| "5675362" \| "5684859" \| "5689252" \| "5717392" \| "5732074" \| "5742666" \| "5745865" \| "5758049" \| "5760773" \| "5767795" \| "5793630" \| "5835061" \| "5845227" \| "5867110" \| "5870686" \| "5872526" \| "5883580" \| "5893898" \| "5898680" \| "5905451" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "5908465" \| "5910799"<br>\| "5933100" \| "5938721"<br>\| "5946618" \| "5948041"<br>\| "5948061" \| "5959577"<br>\| "5969678" \| "5987381"<br>\| "6014090" \| "6026375"<br>\| "6064335" \| "6069570"<br>\| "6073013" \| "6073062"<br>\| "6085148" \| "6091956"<br>\| "6091957" \| "6101443"<br>\| "6111541" \| "6115754"<br>\| "6119014" \| "6122520"<br>\| "6134548" \| "6138142"<br>\| "6151309" \| "6166627"<br>\| "6185427" \| "6195609"<br>\| "6199014" \| "6199045"<br>\| "6199099" \| "6202008"<br>\| "6202023" \| "6216086"<br>\| "6236365" \| "6236933"<br>\| "6246948" \| "6252544"<br>\| "6256498" \| "6259405"<br>\| "6266614" \| "6266615"<br>\| "6278884" \| "6298306"<br>\| "6321158" \| "6323846"<br>\| "6324692" \| "6326918"<br>\| "6343317" \| "6345288"<br>\| "6353398" \| "6353743"<br>\| "6353837" \| "6356761"<br>\| "6370629" \| "6377886"<br>\| "6401032" \| "6405123"<br>\| "6414635" \| "6415227"<br>\| "6452498" \| "6456234"<br>\| "6477581" \| "6490519"<br>\| "6501421" \| "6505046"<br>\| "6505123" \| "6564143"<br>\| "6570557" \| "6571279"<br>\| "6574484" \| "6587835"<br>\| "6611687" \| "6615131"<br>\| "6615213" \| "6647257"<br>\| "6677894" \| "6679932"<br>\| "6681120" \| "6697018"<br>\| "6711474" \| "6731236"<br>\| "6731238" \| "6741188"<br>\| "6748318" \| "6759960"<br>\| "6795686" \| "6810323"<br>\| "6816782" \| "6845318"<br>\| "6847891" \| "6853911"<br>\| "6853917" \| "6868074"<br>\| "6888536" \| "6912398"<br>\| "6944447" \| "6948656"<br>\| "6952181" \| "6954735"<br>\| "6975959" \| "6980909"<br>\| "7009556" \| "7044372"<br>\| "7058594" \| "7082365"<br>\| "7096030" \| "7103470"<br>\| "7117015" \| "7123189"<br>\| "7165725" \| "7187997"<br>\| "7256711" \| "7257392" | | | | | |

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|---|---|---|---|---|---|---|---|
| | | \| "7298327" \| "7310516"<br>\| "7339496" \| "7343564"<br>\| "7349706" \| "7359713"<br>\| "7370283" \| "7386396"<br>\| "7427021" \| "7500607"<br>\| "7525484" \|<br>"20010018349" \|<br>"20020035493" \|<br>"20020035609" \|<br>"20020042266" \|<br>"20020046069" \|<br>"20020046077" \|<br>"20020046084" \|<br>"20020091991" \|<br>"20020140560" \|<br>"20020160815" \|<br>"20020167442" \|<br>"20030069683" \|<br>"20030100326" \|<br>"20030101225" \|<br>"20030134657" \|<br>"20030144793" \|<br>"20030236106" \|<br>"20040036649" \|<br>"20040054428" \|<br>"20040082351" \|<br>"20040128067" \|<br>"20040151151" \|<br>"20040158401" \|<br>"20040158584" \|<br>"20040172409" \|<br>"20040176907" \|<br>"20040198379" \|<br>"20040203836" \|<br>"20040203909" \|<br>"20040228330" \|<br>"20040236504" \|<br>"20040242149" \|<br>"20040246940" \|<br>"20040248586" \|<br>"20040260939" \|<br>"20040264442" \|<br>"20050002419" \|<br>"20050004838" \|<br>"20050027442" \|<br>"20050085272" \|<br>"20050096840" \|<br>"20050114021" \|<br>"20050149250" \|<br>"20050153681" \|<br>"20050197767" \|<br>"20050221808" \|<br>"20050221843" \|<br>"20050222756" \|<br>"20050227709" \|<br>"20050228860" \|<br>"20050239477" \|<br>"20050250440" \| | | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20050286421" \|<br>"20060015249" \|<br>"20060022048" \|<br>"20060025158" \|<br>"20060041377" \|<br>"20060041378" \|<br>"20060058955" \|<br>"20060085392" \|<br>"20060094353" \|<br>"20060111122" \|<br>"20060172769" \|<br>"20060180649" \|<br>"20060184978" \|<br>"20060195481" \|<br>"20060202819" \|<br>"20060211453" \|<br>"20060218209" \|<br>"20060229802" \|<br>"20060284767" \|<br>"20060287824" \|<br>"20070001875" \|<br>"20070005188" \|<br>"20070005233" \|<br>"20070010942" \|<br>"20070016362" \|<br>"20070042790" \|<br>"20070055684" \|<br>"20070061245" \|<br>"20070061363" \|<br>"20070073480" \|<br>"20070073719" \|<br>"20070082655" \|<br>"20070083470" \|<br>"20070093258" \|<br>"20070106465" \|<br>"20070115868" \|<br>"20070117451" \|<br>"20070124043" \|<br>"20070124066" \|<br>"20070129888" \|<br>"20070130153" \|<br>"20070135136" \|<br>"20070135990" \|<br>"20070149212" \|<br>"20070150320" \|<br>"20070153983" \|<br>"20070153984" \|<br>"20070153986" \|<br>"20070156326" \|<br>"20070179854" \|<br>"20070204218" \|<br>"20070206730" \|<br>"20070219706" \|<br>"20070232326" \|<br>"20070233387" \|<br>"20070254676" \|<br>"20070260751" \|<br>"20070271328" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20070276586" \|<br>"20070276587" \|<br>"20070276596" \|<br>"20070282521" \|<br>"20070299601" \|<br>"20080004802" \|<br>"20080005104" \|<br>"20080005301" \|<br>"20080015422" \|<br>"20080021632" \|<br>"20080024360" \|<br>"20080024364" \|<br>"20080027636" \|<br>"20080030308" \|<br>"20080032703" \|<br>"20080045234" \|<br>"20080052407" \|<br>"20080070593" \|<br>"20080071466" \|<br>"20080082254" \|<br>"20080085727" \|<br>"20080086240" \|<br>"20080091347" \|<br>"20080097698" \|<br>"20080098090" \|<br>"20080104634" \|<br>"20080109153" \|<br>"20080113672" \|<br>"20080129528" \|<br>"20080132243" \|<br>"20080132251" \|<br>"20080132252" \|<br>"20080140308" \|<br>"20080140520" \|<br>"20080153512" \|<br>"20080153513" \|<br>"20080155453" \|<br>"20080161034" \|<br>"20080167083" \|<br>"20080167811" \|<br>"20080172173" \|<br>"20080172374" \|<br>"20080176545" \|<br>"20080177793" \|<br>"20080189033" \|<br>"20080249667" \|<br>"20080271072" \|<br>"20080318550" \|<br>"20090003659" \|<br>"20090005018" \|<br>"20090005021" \|<br>"20090005068" \|<br>"20090005070" \|<br>"20090005071" \|<br>"20090005072" \|<br>"20090005076" \|<br>"20090005080" \|<br>"20090005082" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20090005964" \| "20090005965" \| "20090005975" \| "20090005978" \| "20090005981" \| "20090006336" \| "20090017790" \| "20090030605" \| "20090031006" \| "20090033540" \| "20090058822" \| "20090089706" \| "20090098857" \| "20090177385" \| "20090247122" \| "20090259573" \| "20090271271" \| "20090281724" \| "20090286549").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L68 | 94 | ("5453601" \| "5496966" \| "6122625" \| "6446049" \| "6584326" \| "6679423" \| "6879965" \| "6880085" \| "7146159" \| "7233785" \| "7269256" \| "7413113" \| "7434723" \| "7475044" \| "7494067" \| "7546956" \| "7644039" \| "7644859" \| "7707113" \| "7748636" \| "7819307" \| "7822688" \| "7926714" \| "8055184" \| "8060449" \| "8107953" \| "8123128" \| "8126806" \| "8165961" \| "20010005184" \| "20020006806" \| "20020011519" \| "20020052754" \| "20020062284" \| "20020123971" \| "20020147913" \| "20030009382" \| "20030028481" \| "20030032409" \| "20030045328" \| "20030070080" \| "20030083933" \| "20030149900" \| "20030211862" \| "20040093265" \| "20040122771" \| "20040166839" \| "20040192303" \| "20040203601" \| "20050216424" \| "20050234778" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | "20060073808" \| "20060085847" \| "20060136334" \| "20060165060" \| "20060167823" \| "20060191995" \| "20060211408" \| "20070010213" \| "20070011461" \| "20070080215" \| "20070095892" \| "20070125840" \| "20070145152" \| "20070198410" \| "20070223685" \| "20070233615" \| "20070234427" \| "20070244811" \| "20070248232" \| "20070255620" \| "20070255652" \| "20070281664" \| "20070291995" \| "20080059379" \| "20080067240" \| "20080126260" \| "20080201212" \| "20080238610" \| "20080297306" \| "20080315989" \| "20090018964" \| "20090046858" \| "20090050689" \| "20090078761" \| "20090097531" \| "20090253409" \| "20090270174" \| "20090313689" \| "20100030651" \| "20100094752" \| "20100133337" \| "20110006112" \| "20110053560").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L69 | 12 | ("5315096" \| "6234389" \| "20040234117" \| "20050038712" \| "20050234778" \| "20060080174" \| "20070038565" \| "20070069013" \| "20070162184" \| "20080133373" \| "20080208758" \| "20080306761").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| L70 | 35 | ("5029184" \| "5848160" \| "5966312" \| "6433720" \| "6661847" \| "6799141" \| "7020165" \| "7218693" \| "7292627" \| "7333422" \| "7362829" \| "7505522" \| "7561212" \| "7756002" \| "7830995" \| "20020150109" \| "20020196765" \| "20030107513" \| "20030228017" \| "20040080315" \| "20040086027" \| "20040095907" \| "20040151109" \| "20040170430" \| "20040252853" \| "20050128938" \| "20050243938" \| "20050281321" \| "20060088187" \| "20060227889" \| "20070032890" \| "20070177680" \| "20080019341" \| "20090110033" \| "20090168844").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |
| L71 | 223 | ("3736528" \| "3761840" \| "3970926" \| "4091422" \| "4335464" \| "4381546" \| "4464767" \| "4503545" \| "4509171" \| "4516216" \| "4525846" \| "4525847" \| "4532640" \| "4630286" \| "4645871" \| "4654807" \| "4663766" \| "4677625" \| "4782498" \| "4811357" \| "4862464" \| "4924516" \| "4926448" \| "4939748" \| "5008903" \| "5050536" \| "5081647" \| "5099478" \| "5168535" \| "5206854" \| "5230010" \| "5239306" \| "5239607" \| "5251236" \| "5251328" \| "5257396" \| "5280503" \| "5311557" \| "5311578" \| "5345332" \| "5355362" \| "5373149" \| "5392154" \| "5412651" \| "5414540" \| "5436930" \| "5444704" \| "5448555" \| "5473675" \| "5475713" \| "5506866" \| "5513212" \| "5513213" \| "5521942" \| "5530718" \| "5537398" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "5537411" \| "5537436"<br>\| "5540456" \| "5548222"<br>\| "5550881" \| "5559791"<br>\| "5559792" \| "5559810"<br>\| "5563883" \| "5570295"<br>\| "5577087" \| "5602869"<br>\| "5629992" \| "5642379"<br>\| "5651114" \| "5661718"<br>\| "5671250" \| "5684825"<br>\| "5684834" \| "5711012"<br>\| "5719922" \| "5719923"<br>\| "5748811" \| "5764699"<br>\| "5793800" \| "5805669"<br>\| "5805755" \| "5812537"<br>\| "5825517" \| "5828657"<br>\| "5841500" \| "5844944"<br>\| "5859877" \| "5881047"<br>\| "5881142" \| "5901205"<br>\| "5915003" \| "5936949"<br>\| "5940438" \| "5960400"<br>\| "5963620" \| "5999563"<br>\| "6011814" \| "6021158"<br>\| "6031897" \| "6061392"<br>\| "6067297" \| "6072779"<br>\| "6075512" \| "6097858"<br>\| "6097860" \| "6101299"<br>\| "6108347" \| "6111936"<br>\| "6125148" \| "6134245"<br>\| "6154524" \| "6157680"<br>\| "6160790" \| "6175436"<br>\| "6185083" \| "6212227"<br>\| "6236481" \| "6236717"<br>\| "6243391" \| "6252644"<br>\| "6272108" \| "6272154"<br>\| "6292281" \| "6307653"<br>\| "6307893" \| "6307923"<br>\| "6320879" \| "6320993"<br>\| "6330275" \| "6335992"<br>\| "6347008" \| "6348986"<br>\| "6408056" \| "6445733"<br>\| "6470110" \| "6480645"<br>\| "6493475" \| "6529652"<br>\| "6535589" \| "6546090"<br>\| "6549692" \| "6556540"<br>\| "6580709" \| "6580785"<br>\| "6591029" \| "6597827"<br>\| "6603894" \| "6614838"<br>\| "6628857" \| "6631119"<br>\| "6633693" \| "6647058"<br>\| "6658096" \| "6671328"<br>\| "6690644" \| "6690849"<br>\| "6715124" \| "6744883"<br>\| "6771740" \| "6775355"<br>\| "6782094" \| "6782096"<br>\| "6885730" \| "6922415"<br>\| "6950444" \| "6970501"<br>\| "7006445" \| "7013421"<br>\| "7020266" \| "7023829" | | | | | |

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|---|---|---|---|---|---|---|---|
| | | \| "7035380" \| "7046798" \| "7058833" \| "7065205" \| "7127048" \| "7130338" \| "7155016" \| "7170867" \| "7248626" \| "7272215" \| "7289604" \| "7289610" \| "7352803" \| "7471777" \| "7675965" \| "7707446" \| "7711109" \| "7747000" \| "20010022836" \| "20020041662" \| "20020167949" \| "20030039348" \| "20030210773" \| "20030210779" \| "20040013183" \| "20040042510" \| "20040052361" \| "20040066929" \| "20040081233" \| "20040179662" \| "20040213170" \| "20040258236" \| "20050025153" \| "20050074057" \| "20050147158" \| "20050152404" \| "20050163303" \| "20050180545" \| "20060188088" \| "20060193465" \| "20060195712" \| "20070047730" \| "20070047733" \| "20070286187" \| "20080013608" \| "20080019432" \| "20090111422" \| "20090262911" \| "20090262912" \| "20100183055" \| "20100246598").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L72 | 4 | ("6012012" \| "20030187571" \| "20070176771" \| "20090143966").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |
| L73 | 12 | ("5418354" \| "5635981" \| "5918211" \| "6659344" \| "6725206" \| "7337960" \| "20030144793" \| "20030200152" \| "20040181463" \| "20040252025" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |

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| | | "20050073416" \| "20050099298").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
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| L77 | 310 | ("4453074" \| "4582985" \| "4747147" \| "4993068" \| "5175416" \| "5180902" \| "5193114" \| "5245329" \| "5321751" \| "5438184" \| "5461217" \| "5513272" \| "5521966" \| "5534857" \| "5539825" \| "5541582" \| "5559504" \| "5559887" \| "5577121" \| "5581630" \| "5590038" \| "5590197" \| "5602918" \| "5604801" \| "5613001" \| "5677953" \| "5721781" \| "5737439" \| "5739512" \| "5742756" \| "5742845" \| "5757917" \| "5764789" \| "5778173" \| "5796831" \| "5799087" \| "5806045" \| "5815252" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |

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| L78 | 2 | "11770759".pn. | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, | OR | ON | ON | 2023/12/07 12:22 PM |

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|---|---|---|---|---|---|---|---|
| | | | CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L79 | 2 | "11770756".pn. | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 12:25 PM |
| L80 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 03:05 PM |

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| L81 | 7 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME ((sens$3 determin$4 detect$3) near6 (value near4 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:29 PM |
| L82 | 19 | ("5646512" \| "6671635" \| "6745138" \| "6751562" \| "6771058" \| "6792337" \| "6820036" \| "6944555" \| "6990395" \| "7188003" \| "7191076" \| "7216043" \| "7248977" \| "7249265" \| "7272815" \| "7290145" \| "20030204756" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 03:30 PM |

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| | | "20050005093" \| "20050144437").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L83 | 0 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (estimat$4 near8 location near6 value near4 parameter) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:31 PM |
| L84 | 0 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (estimat$4 near8 location near6 value near4 parameter) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:31 PM |

## PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

# Bibliographic Data

Application No: 18/489,517

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /MICHAEL T VU/ (Examiner's Signature) | (Initials)

Title: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

| FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|---|---|---|---|
| 10/18/2023 | 455 | 2641 | 1348.002US9 |
| RULE | | | |

**APPLICANTS**

Telcom Ventures LLC, Miami, FL, UNITED STATES

**INVENTORS**

Peter D. Karabinis, Cary, NC, UNITED STATES

Rajendra Singh, Indian Creek Village, FL, UNITED STATES

**CONTINUING DATA**

This application is a CON of 18450517 08/16/2023

18450517 is a CON of 17653748 03/07/2022 PAT 11770756

17653748 is a CON of 15929609 05/12/2020 PAT 11304118

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**FOREIGN APPLICATIONS**

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$2,592

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
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| **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( **Not for submission under 37 CFR 1.99)** | | |
|---|---|---|
| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT ( Not for submission under 37 CFR 1.99) | | |
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| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT ( Not for submission under 37 CFR 1.99) | | |
|---|---|---|
| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 37 | 20090023474 | A1 | 2009-01-22 | Luo et al. | |
| | 38 | 20090058637 | A1 | 2009-03-05 | Kuo et al. | |
| | 39 | 20090113543 | A1 | 2009-04-30 | Adams et al. | |
| | 40 | 20090153367 | A1 | 2009-06-18 | Lee | |
| | 41 | 20090169070 | A1 | 2009-07-02 | Fadell | |
| | 42 | 20090213947 | A1 | 2009-08-27 | Rao et al. | |
| | 43 | 20100067591 | A1 | 2010-03-18 | Luo et al. | |
| | 44 | 20100265845 | A1 | 2010-10-21 | Lampén | |
| | 45 | 20110314539 | A1 | 2011-12-22 | Horton | |
| | 46 | 20120214443 | A1 | 2012-08-23 | Daigle | |
| | 47 | 20130156218 | A1 | 2013-06-20 | Annacone et al. | |



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT ( Not for submission under 37 CFR 1.99) | | |
|---|---|---|
| | Application Number | |
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| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

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**FOREIGN PATENT DOCUMENTS** Remove

| Examiner Initial* | Cite No | Foreign Document Number[3] | Country Code[2] i | Kind Code[4] | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | T[5] |
|---|---|---|---|---|---|---|---|---|
| | 1 | | | | | | | ☐ |

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**NON-PATENT LITERATURE DOCUMENTS** Remove

| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T[5] |
|---|---|---|---|
| | 1 | "Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017) | ☐ |
| | 2 | "What Are Physiological Biometrics?" THALES, Mar. 2023, www.thalesgroup.com/en/markets/digital-identity-and-security/government/inspired/what-are-physiological-biometrics#:~:text=A%20fingerprint%20is%20an%20example,and%20characteristics%20of%20your%20body. Accessed 20 Jun. 2023. | ☐ |
| | 3 | Caen, the city where you pay and get information by taking out your cell phone. 01net.com. 20 October 2005. Retrieved on 4 October 2023 from https://www.01net.com/actualites/caen-la-ville-ou-lon-paye-et-sinforme-en-sortant-son-portable-292660.html | ☐ |
| | 4 | Google search results, "when did apple introduce the fingerprint sensor on the iphone?", https://www.google.com/search?q=when+did+apple+introduce+the+fingerprint+sensor+on+the+iphone%3F&rlz=1C5CHFA_enUS1053US1053&oq=&aqs=chrome.0.69i59i450l8.2238j0j15&sourceid=chrome&ie=UTF-8. Searched 17 Oct. 2023. | ☐ |
| | 5 | Google search results, "When was the first iphone released", https://www.google.com/search?q=when+was+the+first+iphone+released&rlz=1C5CHFA_enUS1053US1053&oq=&aqs=chrome.0.69i59i450l8.11471j0j15&sourceid=chrome&ie=UTF-8#vhid=qRi4cJnW7gdnuM&vssid=l. Searched 17 Oct. 2023. | ☐ |
| | 6 | In Hanau, the mobile bus ticket is at the right price. 01net.com. 2 May 2005. Retrieved on 17 October 2023 from https://www.01net.com/actualites/a-hanau-le-portable-ticket-de-bus-joue-au-juste-prix-276000.html | ☐ |



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

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| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

| | | | |
|---|---|---|---|
| | 7 | International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009) | ☐ |
| | 8 | J. Weatherbed, "10 years ago, Apple finally convinced us to lock our phones / Before Touch ID and fingerprint scanners, most of us couldn't be bothered to set a PIN or password to protect our mobile devices." The Verge. 12 Sept. 2023. Retrieved on 17 Oct. 2023 from https://www.theverge.com/23868464/apple-iphone-touch-id-fingerprint-security-ten-year-anniversary. | ☐ |
| | 9 | Telecoms - The contactless mobile revolution arrives in 2008. banquedesterritoires.fr. 21 December 2007. Retrieved on 4 October 2023 from https://www.banquedesterritoires.fr/la-revolution-mobile-sans-contact-arrive-en-2008 | ☐ |
| | 10 | U.S. PATENT AND TRADEMARK OFFICE, "Final Office Action", Application Serial No. 15/929,609, 06/09/2021, 17 pgs. | ☐ |
| | 11 | U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/11/2018, pp. 1-10 | ☐ |
| | 12 | U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/19/2019, pp. 1-14 | ☐ |
| | 13 | U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/251,834, 12/17/2019, pp. 1-14 | ☐ |
| | 14 | U.S. PATENT AND TRADEMARK OFFICE, "Non-Final Office Action", Application Serial No. 17/653,748, 06/08/2023, 19 pgs. | ☐ |
| | 15 | U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 15/929,609, December 9, 2021, 4 pgs. | ☐ |
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| | 17 | U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 16/251,834, 04/22/2020, Pgs. 1-9 | ☐ |



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

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| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

| | | | |
|---|---|---|---|
| | 18 | U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 17/653,748, July 17, 2023, 9 pgs. | ☐ |
| | 19 | U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 15/929,609, 06/09/2021, 18 pgs. | ☐ |
| | 20 | U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 15/929,609, 12/01/2020, 16 pgs. | ☐ |
| | 21 | U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 04/12/2019, pp. 1-11 | ☐ |
| | 22 | U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 07/31/2018, pp. 1-8 | ☐ |
| | 23 | U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/251,834, 5/9/2019, pp. 1-10 | ☐ |
| | 24 | U.S. PATENT AND TRADEMARK OFFICE, "Supplemental Notice of Allowability", Application Serial No. 17/653,748, July 28, 2023, 4 pgs. | ☐ |

If you wish to add additional non-patent literature document citation information please click the Add button Add

**EXAMINER SIGNATURE**

| Examiner Signature | /MICHAEL T VU/ | Date Considered | 12/07/2023 |
|---|---|---|---|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

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|---|---|---|
| | Application Number | |
| | Filing Date | 2023-10-18 |
| | First Named Inventor | Peter D. Karabinis |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 1348.002US9 |

**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 | /Aaron Pederson/ | Date (YYYY-MM-DD) | 2023-10-18 |
|---|---|---|---|
| Name/Print | Aaron Pederson | Registration Number | 58607 |

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

## 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 record s.

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.



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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 | 5211 |

138517 7590 12/13/2023

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

| EXAMINER | |
|---|---|
| VU, MICHAEL T | |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2641 | |

| NOTIFICATION DATE | DELIVERY MODE |
|---|---|
| 12/13/2023 | 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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

| *Office Action Summary* | Application No. 18/489,517 | Applicant(s) Karabinis et al. | |
|---|---|---|---|
| | Examiner MICHAEL T VU | Art Unit 2641 | 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 11/29/2023.

☐ 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) 1-6 and 17-24 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-6 and 17-24 is/are rejected.

8) ☐ Claim(s) _____ 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 or send an inquiry to **PPHfeedback@uspto.gov.**

**Application Papers**

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

11)☑ The drawing(s) filed on 10/18/2023 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) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

## DETAILED ACTION

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

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

### Prioritized Examination

2. The Applicant filed the Certification and Request for Prioritized Examination Under 37 CFR 1.102(e) was granted on 11/09/2023.

### *Election/Restrictions*

3. Applicant's election without traverse of claims 1-6 and 17-24, and cancelled claims 7-16 and 25-30 on the reply filed on 11/29/2023 is acknowledged.

### Preliminary Amendment

4. Applicant summits the Preliminary Amendment filed on 11/30/2023 is acknowledged.

### *Information Disclosure Statement*

5. The information disclosure statement (IDS) submitted on 10/18/2023 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### *Drawings*

6. The drawings were received on 10/18/2023. These drawings are considered by examiner.

### Terminal Disclaimer

7. Examiner suggests the Assignee must submit the Terminal Disclaimer accordingly, in order to process of the application promptly.

### *Double Patenting*

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington,* 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1, 4 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1, 6, 11, 14 of Patent No. **11,770,756**. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the instant application was filed on 11/04/2008 is non-statutory and is broader than the ones in the patent and encompasses a similar

invention as recited in the patent claims, i.e., a method of establishing a capability at a smartphone to conduct a financial transaction; the method comprising: responsive to sensing a value of a parameter and responsive to determining that the value of the parameter sensed satisfies a criterion…; therefore, the claims are obviousness-type by the claims in U.S Patent No. **11,770,756** (See In re Goodman).

It is important to note that claimed features recited in claims 1, 6, 11, 14 of U.S. Patent No. **11,770,756** are more specific than claimed features recited in claims 1, 4 of the Instant Application. Hence, the scope of claims of present application is now broader than U.S. Patent No **11,770,756**.

Many decisions support the fact that a broad or generic claim is obvious from a specific claim, i.e., an obvious variation. See In re Van Ornum and Stang, 214 USPQ 761 (CCPA 1982); In re Goodman (CA FC) 29 USPQ2d 2010 (12/3/1993); In re Vogel and Vogel; 164 USPQ 619 (CCPA 1970); In re Berg (CA FC) 46 USPQ2d 1226 (3/30/1998); Eli Lilly and Co. v. Barr Laboratories Inc., 58 USPQ2d 1865 (CA FC 2001). It is well settled that omission of an element and its function in a combination is an obvious expedient if the remaining elements perform the same functions as before. This notion is supported by In re KARLSON, 136 USPQ 184 (1963); In re Nelson, 95 USPQ 82 (CCPA 1952); and In re Eliot, 25 USPQ 111 (CCPA 1935).

Dependent claims 2-3, 5-6, 17-24 depend either directly or indirectly upon independent claims 1, 6, 11, 14 of patent applications **11,770,756** is also rejected at least for the same reasons discussed above.

***Conclusion***

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

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, Charles Appiah can be reached on (571-272-7904. 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.

/MICHAEL T VU/

Primary Examiner, Art Unit 2641

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

| **PATENT APPLICATION FEE DETERMINATION RECORD**<br>Substitute for Form PTO-875 | Application or Docket Number<br>18/489,517 | Filing Date<br>10/18/2023 | ☐ To be Mailed |
|---|---|---|---|

**ENTITY:** ☐ LARGE ☑ SMALL ☐ MICRO

## APPLICATION AS FILED - PART I

| FOR | (Column 1)<br>NUMBER FILED | (Column 2)<br>NUMBER EXTRA | | RATE ($) | FEE ($) |
|---|---|---|---|---|---|
| ☐ BASIC FEE<br>(37 CFR 1.16(a), (b), or (c)) | N/A | N/A | | N/A | |
| ☐ SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m)) | N/A | N/A | | N/A | |
| ☐ EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q)) | N/A | N/A | | N/A | |
| TOTAL CLAIMS<br>(37 CFR 1.16(i)) | minus 20 = | * | | x $40 = | |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h)) | minus 3 = | * | | x $ 192 = | |
| ☐ 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). | | | | |
| ☐ 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 | |

## APPLICATION AS AMENDED - PART II

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | 12/14/2023 | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | | RATE ($) | ADDITIONAL FEE ($) |
| | Total (37 CFR 1.16(i)) | * 20 | Minus | ** 20 | = 0 | | x $ 40 = | 0 |
| | Independent (37 CFR 1.16(h)) | * 3 | Minus | *** 3 | = 0 | | x $ 192 = | 0 |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | |
| | | | | | | | TOTAL ADD'L FEE | 0 |

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | | RATE ($) | ADDITIONAL FEE ($) |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | | x $ 0 = | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | | x $ 0 = | |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ 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". | /RENEE M COLLINS/ |
| *** 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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# ELECTRONIC PAYMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| 18/489,517 | 12/14/2023 12:23:44 PM Z ET | 1348.002US9 |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | Aaron Pederson |
| PATENT CENTER # | 63613784 | AUTHORIZED BY | - |
| CUSTOMER # | 138517 | FILING DATE | 10/18/2023 |
| CORRESPONDENCE ADDRESS | - | FIRST NAMED INVENTOR | Peter D. Karabinis |

## Payment Information

| PAYMENT METHOD | PAYMENT TRANSACTION ID | PAYMENT AUTHORIZED BY |
|---|---|---|
| DA / 502880 | E2023BDC24037504 | Aaron Pederson |

| PRE-AUTHORIZED ACCOUNT | PRE-AUTHORIZED CATEGORY |
|---|---|
| 502880 | 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges) |

| FEE CODE | DESCRIPTION | ITEM PRICE($) | QUANTITY | ITEM TOTAL($) |
|---|---|---|---|---|
| 2814 | STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER | 170.00 | 1 | 170.00 |
| | | | TOTAL AMOUNT: | $170.00 |

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 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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# TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

| APPLICATION # | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET # |
|---|---|---|---|
| 18489517 | 10/18/2023 | Peter Karabinis | 1348.002US9 |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

☑ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☑ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

| Owner | Percent Interest |
|---|---|
| Telcom Ventures LLC | 100% |
| Total | 100% |

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

| Application # | Filing Date |
|---|---|

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent

granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: 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 filed prior to its grant.

---

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

| Patent # |
| --- |
| 11770756 |

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior 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 presently shortened by any terminal disclaimer.

---



Terminal disclaimer fee under 37 CFR 1.20(d) included with Electronic Terminal Disclaimer request.

**Applicant claims the following entity status:**
Small

I hereby declare that all statements made herein of my own knowledge are true and that all statemnts made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

| Signature | Name | Registration # |
|---|---|---|
| /Aaron Pederson/ | Aaron Pederson | 58607 |

* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP 324.

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Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313 - 1450
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# APPROVAL LETTER

| APPLICATION # | FILING DATE | APPLICANT/PATENT UNDER REEXAMINATION |
|---|---|---|
| 18/489,517 | 10/18/2023 | Peter Karabinis |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

**Electronic terminal disclaimer filed on 12/14/2023**

☑ Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved

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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **12/14/2023 12:23:44 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | Aaron Pederson |
| PATENT CENTER # | 63613784 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | - |

## Documents

**TOTAL DOCUMENTS: 2**

| DOCUMENT | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|
| petition-request.pdf | 3 | Terminal Disclaimer-Filed (Electronic) | 48 KB |
| grantLetter.pdf | 1 | Terminal Disclaimer-Electronic-Approved | 19 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| petition-request.pdf | 53D09DBE8ABCDDEBE424E302D1B0FC46AEA6DF9946489A5B F52BC36031087D26FC131A45018AA9A139F8CA908C84A5F639 |

| | |
|---|---|
| | 3629535E87845E67BC54E30EB0A226 |
| grantLetter.pdf | 4ECDD8938F089CE15C45273ACC818607EAC7F6E909013FC31<br>1147B504926637C82A1DA33EDFDEEE7DA3E5ABA90479B9C0<br>D7702547D47F5AB770A822492DFFB33 |

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 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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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **12/14/2023 12:33:01 PM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 63614007 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 2**

| DOCUMENT | | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|---|
| ResponsetoNFOA1348002US9.pdf | | 2 | - | 69 KB |
| ResponsetoNFOA1348002US9-A....pdf | (1-1) | 1 | Amendment/Request for Reconsideration-After Non-Final Rejection | 64 KB |
| ResponsetoNFOA1348002US9-REM.pdf | (2-2) | 1 | Applicant Arguments/Remarks Made in an Amendment | 58 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| ResponsetoNFOA1348002US9.pdf | B1B852DA5A5E870392825523E07A52A71581FCDDF2752A75F DECCD95E7F0ECC71D370820A8A2A1DA6A3E21A66882D5A8C EA9B35FF490CCF6722EB9BFA1F6875A |
| ResponsetoNFOA1348002US9-A....pdf | 2FEDA57CD2C03710EF2C1569A9C388BD70007DF6EB494D8E D72B7D4232756A64AEB8BB685407148B51CBDAB095EED57D B6C44D13B0C8C930C09879CEB8E8B55B |
| ResponsetoNFOA1348002US9-REM.pdf | C90648AF1D99A944127A58286E74BD083676B2F9731EDD33D AC0E3C3B4E6AE06A8296A23BC91C56DC3D26BE7554080CC8 A809E63F1E3A7F972CB19DE45E15394 |

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**New Applications Under 35 U.S.C. 111**

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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.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Art Unit: | : | 2641 |
| Confirmation No.: | | 5211 |
| Examiner | : | Michael T. Vu |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER |

**RESPONSE TO NON-FINAL OFFICE ACTION**

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

Dear Commissioner:

In response to the Non-Final Office Action mailed December 13, 2023, please consider the following:

**Remarks,** beginning on page 2 of this paper.

Should any additional fee be deemed to be due for this filing or any other fees required for the subject application, please charge the appropriate amount to Deposit Account No. 502880.

## REMARKS

This paper is responsive to the Non-Final Office Action dated December 13, 2023, wherein claims 1-6 and 17-24 were pending and rejected. No amendments are made herein. Reconsideration and further prosecution of the present application is respectfully requested.

### Double Patenting

Claims 1-6 and 17-24 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1, 6, 11 and 14 of Patent No. 11,770,756. A Terminal Disclaimer with respect to 11,770,756 is filed concurrently herewith. Applicant respectfully requests withdrawal of the double patenting rejections.

## SUMMARY

For the reasons set out above, Applicant respectfully submits that the application is in condition for allowance. Favorable reconsideration and allowance of the application are, therefore, respectfully requested.

If the Examiner believes that anything further is necessary to place the application in better condition for allowance, the Examiner is asked to contact Applicant's undersigned representative at the telephone number below.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: December 14, 2023

By: /Aaron W. Pederson/
Aaron W. Pederson
Reg. No. 58,607

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

| CPC - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04W 48/04 | 01/02/2024 | MTV |

| 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 |
| Inventor Name: Peter D. Karabinis | 01/02/2024 | MTV |
| Assignee: Telcom Ventures | 01/02/2024 | MTV |
| Double Patent Rejected, TD filed and Approved 12/14/2023 | 01/02/2024 | MTV |
| OC Searched Sytem | 01/02/2024 | MTV |

| Interference Search | | | |
|---|---|---|---|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| Interference | Text Searched | 01/02/2024 | MTV |

| /MICHAEL T VU/<br>Primary Examiner, Art Unit 2641 | |
|---|---|

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

| CPC | | | | | | |
|---|---|---|---|---|---|---|
| Symbol | | | | | Type | Version |
| H04W | / | 48 | / | 04 | F | 2013-01-01 |
| H04W | / | 4 | / | 023 | I | 2013-01-01 |
| H04L | / | 67 | / | 52 | I | 2022-05-01 |
| G06Q | / | 30 | / | 0601 | I | 2013-01-01 |
| H04W | / | 4 | / | 80 | I | 2018-02-01 |
| H04W | / | 76 | / | 10 | I | 2018-02-01 |
| H04W | / | 4 | / | 029 | I | 2018-02-01 |
| H04W | / | 88 | / | 06 | A | 2013-01-01 |

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

| NONE | | Total Claims Allowed: | |
|---|---|---|---|
| (Assistant Examiner) | (Date) | 14 | |
| /MICHAEL T VU/<br>Primary Examiner, Art Unit 2641 | 02 January 2024 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20240102

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

| INTERNATIONAL CLASSIFICATION | | | | | |
|---|---|---|---|---|---|
| CLAIMED | | | | | |
| H04W | / | 4 | / | 02 | |

| NON-CLAIMED | | | | | |
|---|---|---|---|---|---|
| | / | | / | | |

| US ORIGINAL CLASSIFICATION | |
|---|---|
| CLASS | SUBCLASS |
| | |

| CROSS REFERENCES(S) | | | | | | |
|---|---|---|---|---|---|---|
| CLASS | SUBCLASS (ONE SUBCLASS PER BLOCK) | | | | | |
| | | | | | | |

| NONE | | Total Claims Allowed: | |
|---|---|---|---|
| (Assistant Examiner) | (Date) | 14 | |
| /MICHAEL T VU/<br>Primary Examiner, Art Unit 2641 | 02 January 2024 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20240102

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 18/489,517 | Karabinis et al. |
| | Examiner | Art Unit |
| | MICHAEL T VU | 2641 |

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | | 10 | 4 | 19 | | | | | | | | | | |
| 2 | 2 | | 11 | 6 | 20 | | | | | | | | | | |
| 3 | 3 | | 12 | 5 | 21 | | | | | | | | | | |
| 8 | 4 | | 13 | 11 | 22 | | | | | | | | | | |
| 9 | 5 | | 14 | 13 | 23 | | | | | | | | | | |
| 10 | 6 | | 15 | 12 | 24 | | | | | | | | | | |
| | 7 | | 16 | | | | | | | | | | | | |
| | 8 | 7 | 17 | | | | | | | | | | | | |
| | 9 | 14 | 18 | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| NONE | | Total Claims Allowed: | |
| (Assistant Examiner) | (Date) | 14 | |
| /MICHAEL T VU/<br>Primary Examiner, Art Unit 2641 | 02 January 2024 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office Part of Paper No.: 20240102

## PE2E SEARCH - Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | British Equivalents | Time Stamp |
|---|---|---|---|---|---|---|---|
| L1 | 59436 | ((master slave) near2 relationship) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:55 PM |
| L2 | 1021 | ((master slave) near2 relationship) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:55 PM |
| L3 | 0 | ((master slave) near2 relationship) SAME (authorization authenticat$3) SAME (sens$3 near6 (value near4 parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:56 PM |
| L4 | 2 | ((master slave) near2 relationship) SAME (authorization authenticat$3) SAME | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, | OR | ON | ON | 2023/12/05 12:56 PM |

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|---|---|---|---|---|---|---|---|
| | | (sens$3 near6 (value parameter)) | CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L5 | 252 | ((master slave) near2 relationship) SAME (sens$3 near6 (value parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L6 | 8876 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value parameter)) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L7 | 173 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, | OR | ON | ON | 2023/12/05 12:57 PM |

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| | | | VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L8 | 24 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME ((sens$3 determin$4 detect$3) near6 (value near4 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L9 | 12 | L8 AND ( (H04W12/06 OR H04W4/80 OR H04W12/02 OR H04W12/61 OR H04W12/68 OR H04W4/70 OR H04W88/06 OR H04W12/069 OR H04W16/14 OR H04W24/08 OR H04W4/02 OR H04W4/023 OR H04W48/10 OR H04W60/02 OR H04W76/14 OR H04W76/20 OR H04W84/12 OR H04W84/18).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:57 PM |
| L10 | 11 | L8 AND ( (H04L63/08 OR H04L9/3239 OR H04L2463/082 OR H04L63/0861 OR H04L63/0869 OR H04L63/107 OR H04L63/1408 OR H04L63/20 OR H04L9/0841 OR H04L9/3236 OR H04L12/28 OR H04L2209/08 OR H04L2209/127 OR H04L2209/16 OR H04L2209/56 OR H04L41/044 OR H04L41/28 OR H04L63/0428 OR H04L63/0435 OR H04L63/0492 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 12:58 PM |

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| | | H04L63/1458 OR H04L67/12 OR H04L67/125 OR H04L67/52 OR H04L69/24 OR H04L9/0869 OR H04L9/3066 OR H04L9/32 OR H04L9/3268 OR H04L9/40 OR H04L9/50).cpc.) | | | | | |
| L11 | 19 | ("5646512" \| "6671635" \| "6745138" \| "6751562" \| "6771058" \| "6792337" \| "6820036" \| "6944555" \| "6990395" \| "7188003" \| "7191076" \| "7216043" \| "7248977" \| "7249265" \| "7272815" \| "7290145" \| "20030204756" \| "20050005093" \| "20050144437").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/05 01:01 PM |
| L12 | 87 | L7 AND ( (H04W76/14 OR H04W12/06 OR H04W4/80 OR H04W12/65 OR H04W4/70 OR H04W12/68 OR H04W12/065 OR H04W12/04 OR H04W84/18 OR H04W12/041 OR H04W12/33 OR H04W12/50 OR H04W12/037 OR H04W76/10 OR H04W4/38 OR H04W4/12 OR H04W4/21 OR H04W84/14 OR H04W12/069 OR H04W12/63 OR H04W12/64 OR H04W12/77 OR H04W76/25 OR H04W76/30 OR H04W12/068 OR H04W12/08 OR H04W12/10 OR H04W4/021 OR H04W40/02 OR H04W72/30 OR H04W92/02 OR H04W12/02 OR H04W12/033 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/05 01:01 PM |

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|---|---|---|---|---|---|---|---|
| | | H04W12/084 OR H04W12/104 OR H04W12/12 OR H04W12/126 OR H04W12/79 OR H04W4/029 OR H04W4/06 OR H04W48/20 OR H04W72/0453 OR H04W76/23 OR H04W76/34 OR H04W8/005 OR H04W8/18 OR H04W8/26 OR H04W88/00 OR H04W24/00 OR H04W28/26 OR H04W48/08 OR H04W48/10 OR H04W48/12 OR H04W48/16 OR H04W52/0203 OR H04W52/0209 OR H04W52/0216 OR H04W52/0219 OR H04W52/0235 OR H04W52/0251 OR H04W52/0277 OR H04W72/0446 OR H04W72/542 OR H04W74/04 OR H04W84/12 OR H04W84/20 OR H04W84/22).cpc.) | | | | | |
| L13 | 7352 | (financial ADJ transaction) SAME (value parameter) SAME (authorizat$4 authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:09 AM |
| L14 | 151 | (financial ADJ transaction) SAME (value near8 parameter) SAME (authorizat$4 authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, | OR | ON | ON | 2023/12/07 10:09 AM |

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| | | | IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L15 | 30 | L14 AND ( (H04W12/06 OR H04W4/80 OR H04W12/33 OR H04W12/50 OR H04W84/18 OR H04W88/02 OR H04W4/02 OR H04W12/126 OR H04W12/63 OR H04W12/065 OR H04W64/00 OR H04W8/20 OR H04W12/068 OR H04W12/02 OR H04W12/037 OR H04W12/041 OR H04W12/0433 OR H04W12/08 OR H04W12/10 OR H04W12/60 OR H04W12/61 OR H04W12/66 OR H04W12/68 OR H04W24/02 OR H04W4/00 OR H04W4/023 OR H04W4/029 OR H04W48/04 OR H04W72/04 OR H04W76/10 OR H04W76/11 OR H04W8/02 OR H04W8/082 OR H04W8/18 OR H04W8/26 OR H04W80/04 OR H04W84/12 OR H04W88/06 OR H04W88/16 OR H04W88/182).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:09 AM |
| L16 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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| | | \| "8091780" \| "8249935" \| "8463238" \| "8532069" \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L17 | 11 | ("6738964" \| "20010052846" \| "20030014643" \| "20030023554" \| "20030187787" \| "20050097038" \| "20060026205" \| "20070095892" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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| | | "20070152035" \| "20070235539" \| "20080161045").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L18 | 93 | L14 AND ( (G06Q20/40 OR G06Q40/02 OR G06Q20/10 OR G06Q20/3278 OR G06Q20/382 OR G06Q20/4016 OR G06Q20/3224 OR G06Q20/322 OR G06Q20/4014 OR G06Q20/108 OR G06Q20/387 OR G06Q40/03 OR G06Q30/02 OR G06Q40/00 OR G06Q40/12 OR G06Q30/0215 OR G06Q20/105 OR G06Q20/1085 OR G06Q20/425 OR G06Q30/06 OR G06Q10/10 OR G06Q20/3223 OR G06Q20/367 OR G06Q20/385 OR G06Q30/0224 OR G06Q30/0241 OR G06Q30/0255 OR G06Q50/265 OR G06Q20/12 OR G06Q20/20 OR G06Q20/325 OR G06Q20/3674 OR G06Q20/02 OR G06Q20/341 OR G06Q20/405 OR G06Q20/04 OR G06Q20/3226 OR G06Q20/327 OR G06Q20/347 OR G06Q20/3821 OR G06Q20/38215 OR G06Q20/384 OR G06Q20/401 OR G06Q20/40145 OR G06Q30/0207 OR G06Q30/0222 OR G06Q30/0233 OR G06Q30/0601 OR G06Q20/045 OR G06Q20/047 OR G06Q20/145 OR G06Q20/3227 OR G06Q20/34 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:10 AM |

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|---|---|---|---|---|---|---|---|
| | | G06Q20/3829 OR G06Q20/4018 OR G06Q20/403 OR G06Q20/407 OR G06Q20/409 OR G06Q20/42 OR G06Q2220/00 OR G06Q30/0201 OR G06Q30/0228 OR G06Q30/0269 OR G06Q10/00 OR G06Q10/105 OR G06Q20/027 OR G06Q20/102 OR G06Q20/227 OR G06Q20/32 OR G06Q20/326 OR G06Q20/3672 OR G06Q20/4037 OR G06Q20/023 OR G06Q20/085 OR G06Q20/0855 OR G06Q20/24 OR G06Q20/28 OR G06Q20/3229 OR G06Q20/3255 OR G06Q20/349 OR G06Q20/3572 OR G06Q20/363 OR G06Q20/3823 OR G06Q20/3825 OR G06Q20/389 OR G06Q20/4012 OR G06Q20/4015 OR G06Q20/4093 OR G06Q30/00 OR G06Q30/0208 OR G06Q30/0226 OR G06Q30/0231 OR G06Q30/0248 OR G06Q30/0251 OR G06Q30/0252 OR G06Q40/04 OR G06Q40/06 OR G06Q50/01 OR G06Q50/10 OR G06Q50/205 OR G06Q50/22).cpc.) | | | | | |
| L19 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" \| "8091780" \| "8249935" \| "8463238" \| "8532069" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:10 AM |

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| | | \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L20 | 5 | ("7599993" \| "20030008662" \| "20040147255" \| "20050134696" \| "20050181780").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:11 AM |
| L21 | 56 | L14 AND ( (G06F21/32 OR G06F18/21 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, | OR | ON | ON | 2023/12/07 10:11 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F21/35 OR G06F21/60 OR G06F21/554 OR G06F21/608 OR G06F2221/2115 OR G06F21/34 OR G06F21/606 OR G06F2221/2101 OR G06F16/248 OR G06F18/00 OR G06F21/31 OR G06F21/45 OR G06F21/46 OR G06F21/6218 OR G06F2221/2111 OR G06F16/10 OR G06F16/284 OR G06F21/602 OR G06F21/6209 OR G06F21/6245 OR G06F21/72 OR G06F2207/7252 OR G06F3/0325 OR G06F3/03545 OR G06F3/0423 OR G06F3/0425 OR G06F3/0428 OR G06F3/04847 OR G06F7/00).cpc.) | AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L22 | 15 | ("6671810" \| "8667280" \| "8744075" \| "20020144128" \| "20080098464" \| "20080163334" \| "20100235629" \| "20100287382" \| "20110066607" \| "20110179478" \| "20110208964" \| "20130124292" \| "20140033321" \| "20140282875" \| "20150172273").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:11 AM |
| L23 | 6 | ("6130621" \| "6377792" \| "6985583" \| "20030105964" \| "20040172535" \| "20060020960").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |
| L24 | 41 | L14 AND ( (H04L63/0861 OR H04L63/0853 OR H04L63/0838 OR H04L63/08 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, | OR | ON | ON | 2023/12/07 10:12 AM |

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|---|---|---|---|---|---|---|---|
| | | H04L63/0428 OR H04L63/083 OR H04L1/24 OR H04L2209/80 OR H04L2209/56 OR H04L2209/60 OR H04L63/06 OR H04L63/105 OR H04L9/3231 OR H04L9/3239 OR H04L2463/082 OR H04L63/0869 OR H04L63/1466 OR H04L9/0841 OR H04L9/0869 OR H04L9/088 OR H04L9/50 OR H04L2209/04 OR H04L2463/081 OR H04L45/08 OR H04L45/30 OR H04L61/59 OR H04L63/0281 OR H04L63/0823 OR H04L63/123 OR H04L67/133 OR H04L67/30 OR H04L67/306 OR H04L67/52 OR H04L67/535 OR H04L67/56 OR H04L9/00 OR H04L9/002 OR H04L9/003 OR H04L9/0631 OR H04L9/0643 OR H04L9/3236).cpc.) | EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L25 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" \| "8091780" \| "8249935" \| "8463238" \| "8532069" \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |

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|---|---|---|---|---|---|---|---|
| | | "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L26 | 15 | ("6671810" \| "8667280" \| "8744075" \| "20020144128" \| "20080098464" \| "20080163334" \| "20100235629" \| "20100287382" \| "20110066607" \| "20110179478" \| "20110208964" \| "20130124292" \| "20140033321" \| "20140282875" \| "20150172273").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:12 AM |
| L27 | 6 | ("6130621" \| "6377792" \| "6985583" \| "20030105964" \| "20040172535" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:13 AM |

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| | | "20060020960").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L28 | 13 | L14 AND ( (H04W12/06 OR H04W4/80 OR H04W12/33 OR H04W12/50 OR H04W84/18 OR H04W88/02 OR H04W4/02 OR H04W12/126 OR H04W12/63 OR H04W12/065 OR H04W64/00 OR H04W8/20 OR H04W12/068 OR H04W12/02 OR H04W12/037 OR H04W12/041 OR H04W12/0433 OR H04W12/08 OR H04W12/10 OR H04W12/60 OR H04W12/61 OR H04W12/66 OR H04W12/68 OR H04W24/02 OR H04W4/00 OR H04W4/023 OR H04W4/029 OR H04W48/04 OR H04W72/04 OR H04W76/10 OR H04W76/11 OR H04W8/02 OR H04W8/082 OR H04W8/18 OR H04W8/26 OR H04W80/04 OR H04W84/12 OR H04W88/06 OR H04W88/16 OR H04W88/182).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:19 AM |
| L29 | 2 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (sens$3 near6 (value near6 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; | OR | ON | ON | 2023/12/07 10:19 AM |

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| | | | JPO; DERWENT; IBM_TDB) | | | | |
| L30 | 241 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (value near6 parameter) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:20 AM |
| L31 | 88 | L30 AND ( (H04W12/06 OR H04W4/80 OR H04W84/12 OR H04W84/18 OR H04W76/10 OR H04W12/069 OR H04W12/50 OR H04W52/50 OR H04W8/005 OR H04W12/02 OR H04W48/10 OR H04W48/16 OR H04W4/06 OR H04W12/0431 OR H04W12/08 OR H04W12/082 OR H04W56/001 OR H04W88/06 OR H04W12/03 OR H04W12/04 OR H04W12/041 OR H04W12/35 OR H04W28/18 OR H04W52/42 OR H04W84/20 OR H04W12/068 OR H04W4/40 OR H04W40/00 OR H04W52/08 OR H04W52/146 OR H04W52/18 OR H04W52/24 OR H04W52/243 OR H04W52/286 OR H04W52/362 OR H04W52/367 OR H04W52/46 OR H04W52/54 OR H04W72/0473 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:21 AM |

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|---|---|---|---|---|---|---|---|
| | | H04W74/002 OR<br>H04W76/14 OR<br>H04W12/0471 OR<br>H04W12/104 OR<br>H04W12/122 OR<br>H04W12/55 OR<br>H04W12/61 OR<br>H04W12/63 OR<br>H04W12/68 OR<br>H04W16/14 OR<br>H04W24/00 OR<br>H04W24/08 OR<br>H04W4/02 OR<br>H04W4/021 OR<br>H04W4/023 OR<br>H04W4/029 OR<br>H04W4/70 OR<br>H04W48/18 OR<br>H04W60/02 OR<br>H04W76/00 OR<br>H04W76/12 OR<br>H04W76/20 OR<br>H04W76/40 OR<br>H04W8/00 OR<br>H04W8/02 OR<br>H04W8/26 OR<br>H04W80/10 OR<br>H04W92/02 OR<br>H04W92/14 OR<br>H04W12/037 OR<br>H04W12/0433 OR<br>H04W12/108 OR<br>H04W12/37 OR<br>H04W12/40 OR<br>H04W12/65 OR<br>H04W12/69 OR<br>H04W12/71 OR<br>H04W36/0011 OR<br>H04W36/0083 OR<br>H04W36/00837 OR<br>H04W36/26 OR<br>H04W4/08 OR<br>H04W4/24 OR<br>H04W4/50 OR<br>H04W40/02 OR<br>H04W40/24 OR<br>H04W40/246 OR<br>H04W48/08 OR<br>H04W48/12 OR<br>H04W52/00 OR<br>H04W64/00 OR<br>H04W72/0446 OR<br>H04W72/0466 OR<br>H04W72/21 OR<br>H04W72/23 OR<br>H04W72/54 OR<br>H04W74/02 OR<br>H04W74/06 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04W74/08 OR H04W76/15 OR H04W76/28 OR H04W84/10 OR H04W88/10).cpc.) | | | | | |
| L32 | 2 | ("20200099522" \| "20210044972").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:21 AM |
| L33 | 13 | ("6058188" \| "8166309" \| "8418242" \| "8694782" \| "20040158708" \| "20040193875" \| "20050015602" \| "20060104243" \| "20060253704" \| "20070022469" \| "20070098178" \| "20090323972" \| "20110039592").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:21 AM |
| L34 | 138 | L30 AND ( (H04L63/08 OR H04L2209/80 OR H04L63/0823 OR H04L9/3247 OR H04L63/10 OR H04L63/0428 OR H04L63/0869 OR H04L9/3236 OR H04L2209/805 OR H04L63/123 OR H04L63/061 OR H04L63/18 OR H04L9/00 OR H04L9/14 OR H04L2209/56 OR H04L41/0806 OR H04L63/062 OR H04L63/083 OR H04L63/1458 OR H04L9/0819 OR H04L9/3215 OR H04L9/3242 OR H04L41/12 OR H04L63/0853 OR H04L63/126 OR H04L9/08 OR H04L9/32 OR H04L9/3234 OR H04L9/3263 OR H04L9/3271 OR H04L2012/2841 OR H04L2209/60 OR H04L63/0442 OR H04L63/045 OR H04L63/0876 OR H04L67/025 OR H04L7/0012 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:22 AM |

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|---|---|---|---|---|---|---|---|
| | | H04L9/0637 OR<br>H04L9/0866 OR<br>H04L9/088 OR<br>H04L9/0894 OR<br>H04L9/302 OR<br>H04L9/3249 OR<br>H04L12/2816 OR<br>H04L2463/082 OR<br>H04L63/06 OR<br>H04L67/10 OR<br>H04L67/125 OR<br>H04L9/0643 OR<br>H04L9/0841 OR<br>H04L9/0869 OR<br>H04L9/0891 OR<br>H04L9/3239 OR<br>H04L1/0001 OR<br>H04L12/18 OR<br>H04L27/2655 OR<br>H04L41/0843 OR<br>H04L63/20 OR<br>H04L9/0852 OR<br>H04L9/0861 OR<br>H04L9/0897 OR<br>H04L9/50 OR<br>H04L12/28 OR<br>H04L2209/08 OR<br>H04L2209/46 OR<br>H04L61/5014 OR<br>H04L63/0435 OR<br>H04L63/068 OR<br>H04L63/0861 OR<br>H04L67/1097 OR<br>H04L69/14 OR<br>H04L69/18 OR<br>H04L69/24 OR<br>H04L9/3231 OR<br>H04L9/3278 OR<br>H04L1/02 OR<br>H04L12/4641 OR<br>H04L2209/12 OR<br>H04L41/147 OR<br>H04L45/24 OR<br>H04L45/586 OR<br>H04L51/21 OR<br>H04L51/52 OR<br>H04L61/35 OR<br>H04L63/0281 OR<br>H04L63/101 OR<br>H04L63/107 OR<br>H04L63/1408 OR<br>H04L63/1441 OR<br>H04L63/164 OR<br>H04L65/00 OR<br>H04L67/133 OR<br>H04L67/52 OR<br>H04L67/54 OR<br>H04L69/32 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04L7/00 OR<br>H04L9/008 OR<br>H04L9/0822 OR<br>H04L9/083 OR<br>H04L9/0838 OR<br>H04L9/0844 OR<br>H04L9/0847 OR<br>H04L9/085 OR<br>H04L9/0877 OR<br>H04L9/3013 OR<br>H04L9/3033 OR<br>H04L9/3218 OR<br>H04L9/3221 OR<br>H04L9/3268 OR<br>H04L9/3297 OR<br>H04L1/0029 OR<br>H04L1/1806 OR<br>H04L1/1812 OR<br>H04L1/1822 OR<br>H04L1/1835 OR<br>H04L1/1887 OR<br>H04L12/12 OR<br>H04L12/14 OR<br>H04L12/1403 OR<br>H04L12/1446 OR<br>H04L12/1467 OR<br>H04L2012/2849 OR<br>H04L2101/604 OR<br>H04L2101/622 OR<br>H04L2209/046 OR<br>H04L2209/122 OR<br>H04L2209/127 OR<br>H04L2209/16 OR<br>H04L2209/34 OR<br>H04L2209/50 OR<br>H04L2209/603 OR<br>H04L2209/64 OR<br>H04L2463/101 OR<br>H04L2463/141 OR<br>H04L25/03343 OR<br>H04L27/2603 OR<br>H04L27/2613 OR<br>H04L41/00 OR<br>H04L41/044 OR<br>H04L41/0803 OR<br>H04L41/082 OR<br>H04L41/0826 OR<br>H04L41/083 OR<br>H04L41/20 OR<br>H04L41/28 OR<br>H04L43/0829 OR<br>H04L43/0852 OR<br>H04L45/02 OR<br>H04L45/12 OR<br>H04L49/30 OR<br>H04L49/90 OR<br>H04L49/901 OR<br>H04L49/9031 OR | | | | | |

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|---|---|---|---|---|---|---|---|
| | | H04L5/0048 OR<br>H04L5/0051 OR<br>H04L51/04 OR<br>H04L51/222 OR<br>H04L61/2514 OR<br>H04L61/2517 OR<br>H04L61/2582 OR<br>H04L63/0272 OR<br>H04L63/0421 OR<br>H04L63/0485 OR<br>H04L63/0492 OR<br>H04L63/065 OR<br>H04L63/0807 OR<br>H04L63/102 OR<br>H04L63/105 OR<br>H04L63/108 OR<br>H04L63/12 OR<br>H04L63/16 OR<br>H04L63/162 OR<br>H04L63/166 OR<br>H04L65/1016 OR<br>H04L65/1083 OR<br>H04L65/1093 OR<br>H04L65/1101 OR<br>H04L65/1104 OR<br>H04L65/403 OR<br>H04L65/61 OR<br>H04L65/762 OR<br>H04L65/80 OR<br>H04L67/04 OR<br>H04L67/06 OR<br>H04L67/1051 OR<br>H04L67/108 OR<br>H04L67/1095 OR<br>H04L67/12 OR<br>H04L67/131 OR<br>H04L67/141 OR<br>H04L67/30 OR<br>H04L67/34 OR<br>H04L67/51 OR<br>H04L67/56 OR<br>H04L9/001 OR<br>H04L9/003 OR<br>H04L9/0833 OR<br>H04L9/0863 OR<br>H04L9/12 OR H04L9/30 OR H04L9/3066 OR<br>H04L9/3093 OR<br>H04L9/321 OR<br>H04L9/3213 OR<br>H04L9/3226 OR<br>H04L9/3252 OR<br>H04L9/3257 OR<br>H04L9/3273 OR<br>H04L9/40).cpc.) | | | | | |
| L35 | 31 | L30 AND ( (G06Q10/083 OR G06Q10/0836 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, | OR | ON | ON | 2023/12/07 10:22 AM |

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|---|---|---|---|---|---|---|---|
| | | G06Q10/109 OR G06Q20/202 OR G06Q20/208 OR G06Q20/341 OR G06Q50/01 OR G06Q20/326 OR G06Q20/40975 OR G06Q30/00 OR G06Q10/06 OR G06Q10/0833 OR G06Q10/10 OR G06Q20/308 OR G06Q20/3224 OR G06Q20/3674 OR G06Q10/0631 OR G06Q10/0633 OR G06Q10/06395 OR G06Q10/08 OR G06Q10/087 OR G06Q10/20 OR G06Q20/102 OR G06Q20/227 OR G06Q20/321 OR G06Q20/3223 OR G06Q20/3829 OR G06Q20/401 OR G06Q20/4014 OR G06Q20/405 OR G06Q20/409 OR G06Q30/018 OR G06Q30/04 OR G06Q40/08 OR G06Q40/12 OR G06Q50/00 OR G06Q50/28).cpc.) | CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L36 | 43 | ("7376969" \| "8910188" \| "9378361" \| "9641544" \| "9667641" \| "9679125" \| "9690933" \| "9881179" \| "9911290" \| "9985984" \| "1028981" \| "10298444" \| "20040221163" \| "20050262343" \| "20060112039" \| "20090099988" \| "20110302653" \| "20110320816" \| "20120191630" \| "20120290879" \| "20130139179" \| "20140181968" \| "20140245439" \| "20150161237" \| "20160006730" \| "20160026656" \| "20160034712" \| "20160224618" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |

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|---|---|---|---|---|---|---|---|
| | | "20160030884" \| "20160308884" \| "20160308898" \| "20160335425" \| "20160357301" \| "20170063909" \| "20170093910" \| "20170272521" \| "20170277727" \| "20170351739" \| "20180069893" \| "20180314742" \| "20190036971" \| "20190173893").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L37 | 570 | ("4996687" \| "5051947" \| "5339392" \| "5495600" \| "5691917" \| "5706494" \| "5802262" \| "5802523" \| "5822750" \| "5826077" \| "5850544" \| "5857182" \| "5918225" \| "5920716" \| "5937195" \| "5937401" \| "6006235" \| "6011916" \| "6041344" \| "6081801" \| "6092065" \| "6108666" \| "6112198" \| "6128610" \| "6158045" \| "6212673" \| "6219660" \| "6263332" \| "6278994" \| "6282537" \| "6341281" \| "6353821" \| "6367034" \| "6370537" \| "6389436" \| "6397262" \| "6418448" \| "6438540" \| "6438559" \| "6439783" \| "6449620" \| "6453314" \| "6507834" \| "6523102" \| "6546381" \| "6615203" \| "6633867" \| "6681343" \| "6708186" \| "6718278" \| "6748386" \| "6751619" \| "6766330" \| "6785677" \| "6826566" \| "6836778" \| "6850925" \| "6856981" \| "6904019" \| "6954791" \| "6985904" \| "6986019" \| "6996557" \| "7020696" \| "7047249" \| "7051034" \| "7062749" \| "7080062" \| "7093023" \| "7139977" \| "7145938" \| "7146352" \| "7167848" \| "7203927" \| "7224185" \| "7225188" \| "7236972" \| "7263464" \| "7284041" \| "7305391" \| "7308561" \| "7310638" \| "7348981" \| "7376656" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "7383253" \| "7403959"<br>\| "7430549" \| "7440461"<br>\| "7451143" \| "7475058"<br>\| "7483976" \| "7516121"<br>\| "7519577" \| "7519962"<br>\| "7526804" \| "7533087"<br>\| "7546284" \| "7552365"<br>\| "7567953" \| "7580946"<br>\| "7587383" \| "7603674"<br>\| "7613848" \| "7620851"<br>\| "7630982" \| "7634501"<br>\| "7636703" \| "7644066"<br>\| "7653645" \| "7672964"<br>\| "7673065" \| "7676461"<br>\| "7689622" \| "7693891"<br>\| "7702629" \| "7702639"<br>\| "7711782" \| "7716210"<br>\| "7739265" \| "7805445"<br>\| "7814111" \| "7818313"<br>\| "7823066" \| "7827146"<br>\| "7827190" \| "7844829"<br>\| "7870124" \| "7870167"<br>\| "7877381" \| "7895187"<br>\| "7912853" \| "7917299"<br>\| "7930322" \| "7945540"<br>\| "7953728" \| "7954109"<br>\| "7979420" \| "7984043"<br>\| "7987204" \| "7988817"<br>\| "7991766" \| "7996388"<br>\| "8019747" \| "8032544"<br>\| "8046747" \| "8073826"<br>\| "8099400" \| "8103655"<br>\| "8112378" \| "8122006"<br>\| "8134184" \| "8145686"<br>\| "8145859" \| "8155880"<br>\| "8190738" \| "8195648"<br>\| "8204873" \| "8204875"<br>\| "8260803" \| "8290776"<br>\| "8296316" \| "8307197"<br>\| "8307343" \| "8315990"<br>\| "8316012" \| "8321450"<br>\| "8332502" \| "8346511"<br>\| "8352517" \| "8370812"<br>\| "8386466" \| "8387076"<br>\| "8392402" \| "8396886"<br>\| "8447744" \| "8458175"<br>\| "8498956" \| "8521867"<br>\| "8527458" \| "8543558"<br>\| "8572589" \| "8589436"<br>\| "8595840" \| "8676841"<br>\| "8713038" \| "8713049"<br>\| "8719207" \| "8738572"<br>\| "8745070" \| "8762369"<br>\| "8775412" \| "8880493"<br>\| "9015102" \| "9047249"<br>\| "9058360" \| "9098587"<br>\| "9110945" \| "9189280"<br>\| "9244978" \| "9256646" | | | | | |

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| | | \| "9262258" \| "9262479"<br>\| "9286352" \| "9292574"<br>\| "9305057" \| "9305238"<br>\| "9329975" \| "9361308"<br>\| "9390135" \| "9418113"<br>\| "9430494" \| "9535761"<br>\| "9563663" \| "9703836"<br>\| "9712645" \| "9715529"<br>\| "9756104" \| "9804892"<br>\| "9805095" \| "9852186"<br>\| "9886486" \| "9934279"<br>\| "9946756" \| "9953059"<br>\| "9972103" \| "9990410"<br>\| "20020023211" \|<br>"20020032804" \|<br>"20020038217" \|<br>"20020038306" \|<br>"20020038313" \|<br>"20020049788" \|<br>"20020056004" \|<br>"20020073399" \|<br>"20020116362" \|<br>"20020116371" \|<br>"20020133484" \|<br>"20020169788" \|<br>"20030014408" \|<br>"20030037048" \|<br>"20030046673" \|<br>"20030065655" \|<br>"20030065659" \|<br>"20030120682" \|<br>"20030135304" \|<br>"20030200198" \|<br>"20030212664" \|<br>"20030229652" \|<br>"20030236766" \|<br>"20040010496" \|<br>"20040019592" \|<br>"20040024773" \|<br>"20040030421" \|<br>"20040064466" \|<br>"20040073534" \|<br>"20040088404" \|<br>"20040117359" \|<br>"20040136598" \|<br>"20040151382" \|<br>"20040153329" \|<br>"20040167864" \|<br>"20040168107" \|<br>"20040177053" \|<br>"20040201612" \|<br>"20040205082" \|<br>"20040220896" \|<br>"20040220912" \|<br>"20040220927" \|<br>"20040243590" \|<br>"20040267760" \|<br>"20040268314" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20050010896" \|<br>"20050027698" \|<br>"20050055338" \|<br>"20050065949" \|<br>"20050071217" \|<br>"20050096124" \|<br>"20050097128" \|<br>"20050108368" \|<br>"20050120016" \|<br>"20050154740" \|<br>"20050174940" \|<br>"20050177579" \|<br>"20050192921" \|<br>"20050204340" \|<br>"20050229158" \|<br>"20050273352" \|<br>"20050273450" \|<br>"20050289125" \|<br>"20060007308" \|<br>"20060015482" \|<br>"20060031204" \|<br>"20060047696" \|<br>"20060064487" \|<br>"20060080646" \|<br>"20060085592" \|<br>"20060089939" \|<br>"20060100957" \|<br>"20060100969" \|<br>"20060106786" \|<br>"20060106797" \|<br>"20060129554" \|<br>"20060155719" \|<br>"20060166704" \|<br>"20060167704" \|<br>"20060167856" \|<br>"20060167869" \|<br>"20060212441" \|<br>"20060224576" \|<br>"20060230029" \|<br>"20060235840" \|<br>"20060242180" \|<br>"20060282429" \|<br>"20060294095" \|<br>"20070016467" \|<br>"20070039049" \|<br>"20070050340" \|<br>"20070076314" \|<br>"20070118600" \|<br>"20070136239" \|<br>"20070136254" \|<br>"20070156787" \|<br>"20070156964" \|<br>"20070168154" \|<br>"20070192301" \|<br>"20070198479" \|<br>"20070022092" \|<br>"20070214171" \|<br>"20070226188" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20070226239" \|<br>"20070250487" \|<br>"20070271280" \|<br>"20070294217" \|<br>"20080005093" \|<br>"20080010093" \|<br>"20080010241" \|<br>"20080016095" \|<br>"20080028095" \|<br>"20080033914" \|<br>"20080034427" \|<br>"20080046401" \|<br>"20080071904" \|<br>"20080077570" \|<br>"20080077587" \|<br>"20080077780" \|<br>"20080082484" \|<br>"20080082514" \|<br>"20080086321" \|<br>"20080098359" \|<br>"20080098370" \|<br>"20080110397" \|<br>"20080114787" \|<br>"20080120283" \|<br>"20080120321" \|<br>"20080162583" \|<br>"20080195577" \|<br>"20080235298" \|<br>"20080243451" \|<br>"20080243675" \|<br>"20080250073" \|<br>"20080255847" \|<br>"20080263039" \|<br>"20080270764" \|<br>"20080275891" \|<br>"20080281782" \|<br>"20080301086" \|<br>"20080301124" \|<br>"20080301125" \|<br>"20080301135" \|<br>"20080301256" \|<br>"20080313131" \|<br>"20090006320" \|<br>"20090006346" \|<br>"20090007098" \|<br>"20090019045" \|<br>"20090024622" \|<br>"20090043729" \|<br>"20090070355" \|<br>"20090070785" \|<br>"20090070786" \|<br>"20090076899" \|<br>"20090088962" \|<br>"20090100029" \|<br>"20090106189" \|<br>"20090106190" \|<br>"20090106198" \|<br>"20090106214" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20090106215" \|<br>"20090106218" \|<br>"20090106321" \|<br>"20090106440" \|<br>"20090112779" \|<br>"20090112802" \|<br>"20090112803" \|<br>"20090112809" \|<br>"20090112853" \|<br>"20090125550" \|<br>"20090125916" \|<br>"20090132503" \|<br>"20090133041" \|<br>"20090144696" \|<br>"20090172014" \|<br>"20090182779" \|<br>"20090187584" \|<br>"20090192981" \|<br>"20090216747" \|<br>"20090216860" \|<br>"20090222730" \|<br>"20090228431" \|<br>"20090228434" \|<br>"20090228465" \|<br>"20090245236" \|<br>"20090248749" \|<br>"20090254522" \|<br>"20090257314" \|<br>"20090265324" \|<br>"20090271529" \|<br>"20090282021" \|<br>"20090292979" \|<br>"20090293046" \|<br>"20090300093" \|<br>"20090300181" \|<br>"20090300580" \|<br>"20090300615" \|<br>"20090313198" \|<br>"20090319501" \|<br>"20090327102" \|<br>"20090327257" \|<br>"20100017379" \|<br>"20100017380" \|<br>"20100022627" \|<br>"20100023498" \|<br>"20100036803" \|<br>"20100036831" \|<br>"20100049710" \|<br>"20100057663" \|<br>"20100057727" \|<br>"20100057735" \|<br>"20100057736" \|<br>"20100057737" \|<br>"20100094838" \|<br>"20100106710" \|<br>"20100106946" \|<br>"20100125572" \|<br>"20100125574" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20100125584" \|<br>"20100138405" \|<br>"20100161589" \|<br>"20100223283" \|<br>"20100223305" \|<br>"20100223437" \|<br>"20100223606" \|<br>"20100250572" \|<br>"20100293135" \|<br>"20100312756" \|<br>"20100318652" \|<br>"20100332401" \|<br>"20110004621" \|<br>"20110016123" \|<br>"20110016160" \|<br>"20110022618" \|<br>"20110023055" \|<br>"20110029484" \|<br>"20110029485" \|<br>"20110035253" \|<br>"20110040746" \|<br>"20110040827" \|<br>"20110055192" \|<br>"20110055197" \|<br>"20110084967" \|<br>"20110093162" \|<br>"20110093491" \|<br>"20110105857" \|<br>"20110131588" \|<br>"20110161321" \|<br>"20110161328" \|<br>"20110161352" \|<br>"20110161356" \|<br>"20110161397" \|<br>"20110173231" \|<br>"20110173235" \|<br>"20110196839" \|<br>"20110196891" \|<br>"20110213802" \|<br>"20110246445" \|<br>"20110270879" \|<br>"20110282812" \|<br>"20110295841" \|<br>"20110302164" \|<br>"20110313844" \|<br>"20110314019" \|<br>"20110321057" \|<br>"20120016866" \|<br>"20120041934" \|<br>"20120072455" \|<br>"20120078951" \|<br>"20120116982" \|<br>"20120130963" \|<br>"20120131139" \|<br>"20120166417" \|<br>"20120166421" \|<br>"20120166469" \|<br>"20120191697" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20120233107" \|<br>"20120259910" \|<br>"20120278473" \|<br>"20120284420" \|<br>"20120290715" \|<br>"20120291049" \|<br>"20120323941" \|<br>"20120324453" \|<br>"20130007539" \|<br>"20130014088" \|<br>"20130031567" \|<br>"20130046725" \|<br>"20130066855" \|<br>"20130117317" \|<br>"20130144866" \|<br>"20130191370" \|<br>"20130262399" \|<br>"20130275452" \|<br>"20130332240" \|<br>"20140019194" \|<br>"20140059109" \|<br>"20140082013" \|<br>"20140095425" \|<br>"20140095444" \|<br>"20140095445" \|<br>"20140095446" \|<br>"20140095447" \|<br>"20140095462" \|<br>"20140095471" \|<br>"20140095473" \|<br>"20140095483" \|<br>"20140095525" \|<br>"20140095529" \|<br>"20140095533" \|<br>"20140095535" \|<br>"20140095537" \|<br>"20140095540" \|<br>"20140095541" \|<br>"20140095543" \|<br>"20140136514" \|<br>"20140156683" \|<br>"20140172506" \|<br>"20140172914" \|<br>"20140201225" \|<br>"20140236983" \|<br>"20140237289" \|<br>"20140237487" \|<br>"20140324530" \|<br>"20140358959" \|<br>"20140379712" \|<br>"20150007320" \|<br>"20150156241" \|<br>"20150161214" \|<br>"20150227415" \|<br>"20150363464" \|<br>"20150381712" \|<br>"20160034311" \|<br>"20160085809" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20160085810" \| "20160103882" \| "20160127517" \| "20160140180" \| "20160154855" \| "20160283555" \| "20170024912" \| "20170075726" \| "20180046511").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L38 | 3 | ("8060582" \| "8150848" \| "8650024").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:23 AM |
| L39 | 17 | L30 AND ( (H04B7/00 OR H04B1/7143 OR H04B10/70 OR H04B15/00 OR H04B15/005 OR H04B5/00 OR H04B7/022 OR H04B7/026 OR H04B1/0475 OR H04B7/24).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:24 AM |
| L40 | 446 | (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (blood ADJ pressure) AND (heart ADJ rate) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:30 AM |
| L41 | 81 | (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (location position) AND | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, | OR | ON | ON | 2023/12/07 10:32 AM |

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|---|---|---|---|---|---|---|---|
| | | humidity AND temperature AND height AND (brightness dakness) AND (blood ADJ pressure) AND (heart ADJ rate) | PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L42 | 18 | L41 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:32 AM |
| L43 | 21 | L41 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:32 AM |
| L44 | 18 | L41 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:33 AM |
| L45 | 20 | L41 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, | OR | ON | ON | 2023/12/07 10:33 AM |

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|---|---|---|---|---|---|---|---|
| | | H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L46 | 9 | L41 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:33 AM |
| L47 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:34 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L48 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:34 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | |
| L49 | 9 | L41 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L50 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L51 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 10:36 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | |
| L52 | 81 | (phone mobile pda portable cellular iphone ipda watch (smart ADJ phone)) AND (master (first ADJ device)) SAME (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (location position) AND humidity AND temperature AND height AND (brightness dakness) AND (blood ADJ pressure) AND (heart ADJ rate) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:39 AM |
| L53 | 18 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, | OR | ON | ON | 2023/12/07 10:40 AM |

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|---|---|---|---|---|---|---|---|
| | | H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L54 | 21 | L52 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:44 AM |
| L55 | 20 | L52 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:44 AM |
| L56 | 9 | L52 AND ( (G06F3/011 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/016 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/167 OR G06F1/163 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; | OR | ON | ON | 2023/12/07 10:45 AM |

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|---|---|---|---|---|---|---|---|
| | | G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/04845 OR G06F3/04847 OR G06F3/04883 OR G06F9/451).cpc.) | IBM_TDB) | | | | |
| L57 | 18 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:46 AM |
| L58 | 19 | L52 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:47 AM |
| L59 | 15 | L52 AND ( (H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:49 AM |
| L60 | 17 | L52 AND ( (H04L67/52 OR H04L12/1822 OR H04L51/222 OR H04L51/224 OR H04L63/08 OR H04L9/32 OR H04L9/50).cpc.) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 10:51 AM |
| L61 | 211 | ("20020170961"\|"20030172028"\|"20030220105 | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, | OR | ON | ON | 2023/12/07 11:49 AM |

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|---|---|---|---|---|---|---|---|
| | | "\|"20040030601"\|"2004 0143505"\|"2004014355 0"\|"20040170430"\|"200 50136949"\|"200600092 34"\|"20060085297"\|"20 060133633"\|"20060144 933"\|"20060145893"\|"2 0060159260"\|"2006016 5060"\|"20060172700"\|" 20060194538"\|"200701 29077"\|"20070167147"\| "20070178935"\|"20070 184837"\|"20070197261 "\|"20070198436"\|"2007 0243872"\|"2007025039 3"\|"20070260710"\|"200 70265984"\|"200702852 80"\|"20080040274"\|"20 080140667"\|"20080140 868"\|"20080146148"\|"2 0080167966"\|"2008020 0166"\|"20080227471"\|" 20080306868"\|"200900 23474"\|"20090058637"\| "20090113543"\|"20090 153367"\|"20090169070 "\|"20090213947"\|"2010 0067591"\|"2010026584 5"\|"20110314539"\|"201 20214443"\|"201301562 18"\|"6595929"\|"676960 7"\|"6944981"\|"6957107" \|"7028897"\|"7133659"\|" 7155199"\|"7295846"\|"7 503504"\|"7505941"\|"75 39241"\|"7624923"\|"778 0081"\|"7822644"\|"7912 629"\|"8023580"\|"80503 37"\|"8091780"\|"824993 5"\|"8463238"\|"8532069" \|"8646060"\|"8665062"\|" 8965281"\|"RE39736").P N. | AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L62 | 72 | ("20020170961"\|"20030 172028"\|"20030220105 "\|"20040030601"\|"2004 0143505"\|"2004014355 0"\|"20040170430"\|"200 50136949"\|"200600092 34"\|"20060085297"\|"20 060133633"\|"20060144 933"\|"20060145893"\|"2 0060159260"\|"2006016 5060"\|"20060172700"\|" 20060194538"\|"200701 29077"\|"20070167147"\| "20070178935"\|"20070 184837"\|"20070197261 | (US-PGPUB; USPAT) | OR | ON | ON | 2023/12/07 11:49 AM |

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|---|---|---|---|---|---|---|---|
| | | "\|"20070198436"\|"20070243872"\|"20070250393"\|"20070260710"\|"20070265984"\|"20070285280"\|"20080040274"\|"20080140667"\|"20080140868"\|"20080146148"\|"20080167966"\|"20080200166"\|"20080227471"\|"20080306868"\|"20090023474"\|"20090058637"\|"20090113543"\|"20090153367"\|"20090169070"\|"20090213947"\|"20100067591"\|"20100265845"\|"20110314539"\|"20120214443"\|"20130156218"\|"6595929"\|"6769607"\|"6944981"\|"6957107"\|"7028897"\|"7133659"\|"7155199"\|"7295846"\|"7503504"\|"7505941"\|"7539241"\|"7624923"\|"7780081"\|"7822644"\|"7912629"\|"8023580"\|"8050337"\|"8091780"\|"8249935"\|"8463238"\|"8532069"\|"8646060"\|"8665062"\|"8965281"\|"RE39736").PN. | | | | | |
| L63 | 11 | ("6738964" \| "20010052846" \| "20030014643" \| "20030023554" \| "20030187787" \| "20050097038" \| "20060026205" \| "20070095892" \| "20070152035" \| "20070235539" \| "20080161045").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |
| L64 | 36 | ("5705991" \| "6104922" \| "6703918" \| "6710700" \| "6850147" \| "7362210" \| "7378939" \| "8232862" \| "20020060243" \| "20020066041" \| "20020095608" \| "20020140542" \| "20030115490" \| "20030189480" \| "20040062133" \| "20040257196" \| "20050046545" \| "20050226468" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |

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|---|---|---|---|---|---|---|---|
| | | "20050250472" \| "20060049922" \| "20060219776" \| "20060236373" \| "20060294359" \| "20070057763" \| "20070213096" \| "20080080750" \| "20080175449" \| "20080229409" \| "20080260211" \| "20080261560" \| "20090164798" \| "20090201128" \| "20090237203" \| "20090320538" \| "20100049987" \| "20120253607").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L65 | 5 | ("8045961" \| "20090221266" \| "20090265775" \| "20120030366" \| "20130159119").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:49 AM |
| L66 | 5 | ("7599993" \| "20030008662" \| "20040147255" \| "20050134696" \| "20050181780").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |
| L67 | 360 | ("4644351" \| "4903212" \| "5031104" \| "5067081" \| "5182555" \| "5187810" \| "5195031" \| "5243652" \| "5337044" \| "5371678" \| "5379057" \| "5406490" \| "5416890" \| "5469362" \| "5519760" \| "5523950" \| "5537460" \| "5539395" \| "5539647" \| "5552989" \| "5559520" \| "5570412" \| "5598572" \| "5628050" \| "5636245" \| "5642303" \| "5675362" \| "5684859" \| "5689252" \| "5717392" \| "5732074" \| "5742666" \| "5745865" \| "5758049" \| "5760773" \| "5767795" \| "5793630" \| "5835061" \| "5845227" \| "5867110" \| "5870686" \| "5872526" \| "5883580" \| "5893898" \| "5898680" \| "5905451" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "5908465" \| "5910799"<br>\| "5933100" \| "5938721"<br>\| "5946618" \| "5948041"<br>\| "5948061" \| "5959577"<br>\| "5969678" \| "5987381"<br>\| "6014090" \| "6026375"<br>\| "6064335" \| "6069570"<br>\| "6073013" \| "6073062"<br>\| "6085148" \| "6091956"<br>\| "6091957" \| "6101443"<br>\| "6111541" \| "6115754"<br>\| "6119014" \| "6122520"<br>\| "6134548" \| "6138142"<br>\| "6151309" \| "6166627"<br>\| "6185427" \| "6195609"<br>\| "6199014" \| "6199045"<br>\| "6199099" \| "6202008"<br>\| "6202023" \| "6216086"<br>\| "6236365" \| "6236933"<br>\| "6246948" \| "6252544"<br>\| "6256498" \| "6259405"<br>\| "6266614" \| "6266615"<br>\| "6278884" \| "6298306"<br>\| "6321158" \| "6323846"<br>\| "6324692" \| "6326918"<br>\| "6343317" \| "6345288"<br>\| "6353398" \| "6353743"<br>\| "6353837" \| "6356761"<br>\| "6370629" \| "6377886"<br>\| "6401032" \| "6405123"<br>\| "6414635" \| "6415227"<br>\| "6452498" \| "6456234"<br>\| "6477581" \| "6490519"<br>\| "6501421" \| "6505046"<br>\| "6505123" \| "6564143"<br>\| "6570557" \| "6571279"<br>\| "6574484" \| "6587835"<br>\| "6611687" \| "6615131"<br>\| "6615213" \| "6647257"<br>\| "6677894" \| "6679932"<br>\| "6681120" \| "6697018"<br>\| "6711474" \| "6731236"<br>\| "6731238" \| "6741188"<br>\| "6748318" \| "6759960"<br>\| "6795686" \| "6810323"<br>\| "6816782" \| "6845318"<br>\| "6847891" \| "6853911"<br>\| "6853917" \| "6868074"<br>\| "6888536" \| "6912398"<br>\| "6944447" \| "6948656"<br>\| "6952181" \| "6954735"<br>\| "6975959" \| "6980909"<br>\| "7009556" \| "7044372"<br>\| "7058594" \| "7082365"<br>\| "7096030" \| "7103470"<br>\| "7117015" \| "7123189"<br>\| "7165725" \| "7187997"<br>\| "7256711" \| "7257392" | | | | | |

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|---|---|---|---|---|---|---|---|
| | | \| "7298327" \| "7310516"<br>\| "7339496" \| "7343564"<br>\| "7349706" \| "7359713"<br>\| "7370283" \| "7386396"<br>\| "7427021" \| "7500607"<br>\| "7525484" \|<br>"20010018349" \|<br>"20020035493" \|<br>"20020035609" \|<br>"20020042266" \|<br>"20020046069" \|<br>"20020046077" \|<br>"20020046084" \|<br>"20020091991" \|<br>"20020140560" \|<br>"20020160815" \|<br>"20020167442" \|<br>"20030069683" \|<br>"20030100326" \|<br>"20030101225" \|<br>"20030134657" \|<br>"20030144793" \|<br>"20030236106" \|<br>"20040036649" \|<br>"20040054428" \|<br>"20040082351" \|<br>"20040128067" \|<br>"20040151151" \|<br>"20040158401" \|<br>"20040158584" \|<br>"20040172409" \|<br>"20040176907" \|<br>"20040198379" \|<br>"20040203836" \|<br>"20040203909" \|<br>"20040228330" \|<br>"20040236504" \|<br>"20040242149" \|<br>"20040246940" \|<br>"20040248586" \|<br>"20040260939" \|<br>"20040264442" \|<br>"20050002419" \|<br>"20050004838" \|<br>"20050027442" \|<br>"20050085272" \|<br>"20050096840" \|<br>"20050114021" \|<br>"20050149250" \|<br>"20050153681" \|<br>"20050197767" \|<br>"20050221808" \|<br>"20050221843" \|<br>"20050222756" \|<br>"20050227709" \|<br>"20050228860" \|<br>"20050239477" \|<br>"20050250440" \| | | | | | |

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| | | "20050286421" \|<br>"20060015249" \|<br>"20060022048" \|<br>"20060025158" \|<br>"20060041377" \|<br>"20060041378" \|<br>"20060058955" \|<br>"20060085392" \|<br>"20060094353" \|<br>"20060111122" \|<br>"20060172769" \|<br>"20060180649" \|<br>"20060184978" \|<br>"20060195481" \|<br>"20060202819" \|<br>"20060211453" \|<br>"20060218209" \|<br>"20060229802" \|<br>"20060284767" \|<br>"20060287824" \|<br>"20070001875" \|<br>"20070005188" \|<br>"20070005233" \|<br>"20070010942" \|<br>"20070016362" \|<br>"20070042790" \|<br>"20070055684" \|<br>"20070061245" \|<br>"20070061363" \|<br>"20070073480" \|<br>"20070073719" \|<br>"20070082655" \|<br>"20070083470" \|<br>"20070093258" \|<br>"20070106465" \|<br>"20070115868" \|<br>"20070117451" \|<br>"20070124043" \|<br>"20070124066" \|<br>"20070129888" \|<br>"20070130153" \|<br>"20070135136" \|<br>"20070135990" \|<br>"20070149212" \|<br>"20070150320" \|<br>"20070153983" \|<br>"20070153984" \|<br>"20070153986" \|<br>"20070156326" \|<br>"20070179854" \|<br>"20070204218" \|<br>"20070206730" \|<br>"20070219706" \|<br>"20070232326" \|<br>"20070233387" \|<br>"20070254676" \|<br>"20070260751" \|<br>"20070271328" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20070276586" \|<br>"20070276587" \|<br>"20070276596" \|<br>"20070282521" \|<br>"20070299601" \|<br>"20080004802" \|<br>"20080005104" \|<br>"20080005301" \|<br>"20080015422" \|<br>"20080021632" \|<br>"20080024360" \|<br>"20080024364" \|<br>"20080027636" \|<br>"20080030308" \|<br>"20080032703" \|<br>"20080045234" \|<br>"20080052407" \|<br>"20080070593" \|<br>"20080071466" \|<br>"20080082254" \|<br>"20080085727" \|<br>"20080086240" \|<br>"20080091347" \|<br>"20080097698" \|<br>"20080098090" \|<br>"20080104634" \|<br>"20080109153" \|<br>"20080113672" \|<br>"20080129528" \|<br>"20080132243" \|<br>"20080132251" \|<br>"20080132252" \|<br>"20080140308" \|<br>"20080140520" \|<br>"20080153512" \|<br>"20080153513" \|<br>"20080155453" \|<br>"20080161034" \|<br>"20080167083" \|<br>"20080167811" \|<br>"20080172173" \|<br>"20080172374" \|<br>"20080176545" \|<br>"20080177793" \|<br>"20080189033" \|<br>"20080249667" \|<br>"20080271072" \|<br>"20080318550" \|<br>"20090003659" \|<br>"20090005018" \|<br>"20090005021" \|<br>"20090005068" \|<br>"20090005070" \|<br>"20090005071" \|<br>"20090005072" \|<br>"20090005076" \|<br>"20090005080" \|<br>"20090005082" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20090005964" \| "20090005965" \| "20090005975" \| "20090005978" \| "20090005981" \| "20090006336" \| "20090017790" \| "20090030605" \| "20090031006" \| "20090033540" \| "20090058822" \| "20090089706" \| "20090098857" \| "20090177385" \| "20090247122" \| "20090259573" \| "20090271271" \| "20090281724" \| "20090286549").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L68 | 94 | ("5453601" \| "5496966" \| "6122625" \| "6446049" \| "6584326" \| "6679423" \| "6879965" \| "6880085" \| "7146159" \| "7233785" \| "7269256" \| "7413113" \| "7434723" \| "7475044" \| "7494067" \| "7546956" \| "7644039" \| "7644859" \| "7707113" \| "7748636" \| "7819307" \| "7822688" \| "7926714" \| "8055184" \| "8060449" \| "8107953" \| "8123128" \| "8126806" \| "8165961" \| "20010005184" \| "20020006806" \| "20020011519" \| "20020052754" \| "20020062284" \| "20020123971" \| "20020147913" \| "20030009382" \| "20030028481" \| "20030032409" \| "20030045328" \| "20030070080" \| "20030083933" \| "20030149900" \| "20030211862" \| "20040093265" \| "20040122771" \| "20040166839" \| "20040192303" \| "20040203601" \| "20050216424" \| "20050234778" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | "20060073808" \| "20060085847" \| "20060136334" \| "20060165060" \| "20060167823" \| "20060191995" \| "20060211408" \| "20070010213" \| "20070011461" \| "20070080215" \| "20070095892" \| "20070125840" \| "20070145152" \| "20070198410" \| "20070223685" \| "20070233615" \| "20070234427" \| "20070244811" \| "20070248232" \| "20070255620" \| "20070255652" \| "20070281664" \| "20070291995" \| "20080059379" \| "20080067240" \| "20080126260" \| "20080201212" \| "20080238610" \| "20080297306" \| "20080315989" \| "20090018964" \| "20090046858" \| "20090050689" \| "20090078761" \| "20090097531" \| "20090253409" \| "20090270174" \| "20090313689" \| "20100030651" \| "20100094752" \| "20100133337" \| "20110006112" \| "20110053560").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L69 | 12 | ("5315096" \| "6234389" \| "20040234117" \| "20050038712" \| "20050234778" \| "20060080174" \| "20070038565" \| "20070069013" \| "20070162184" \| "20080133373" \| "20080208758" \| "20080306761").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| L70 | 35 | ("5029184" \| "5848160" \| "5966312" \| "6433720" \| "6661847" \| "6799141" \| "7020165" \| "7218693" \| "7292627" \| "7333422" \| "7362829" \| "7505522" \| "7561212" \| "7756002" \| "7830995" \| "20020150109" \| "20020196765" \| "20030107513" \| "20030228017" \| "20040080315" \| "20040086027" \| "20040095907" \| "20040151109" \| "20040170430" \| "20040252853" \| "20050128938" \| "20050243938" \| "20050281321" \| "20060088187" \| "20060227889" \| "20070032890" \| "20070177680" \| "20080019341" \| "20090110033" \| "20090168844").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |
| L71 | 223 | ("3736528" \| "3761840" \| "3970926" \| "4091422" \| "4335464" \| "4381546" \| "4464767" \| "4503545" \| "4509171" \| "4516216" \| "4525846" \| "4525847" \| "4532640" \| "4630286" \| "4645871" \| "4654807" \| "4663766" \| "4677625" \| "4782498" \| "4811357" \| "4862464" \| "4924516" \| "4926448" \| "4939748" \| "5008903" \| "5050536" \| "5081647" \| "5099478" \| "5168535" \| "5206854" \| "5230010" \| "5239306" \| "5239607" \| "5251236" \| "5251328" \| "5257396" \| "5280503" \| "5311557" \| "5311578" \| "5345332" \| "5355362" \| "5373149" \| "5392154" \| "5412651" \| "5414540" \| "5436930" \| "5444704" \| "5448555" \| "5473675" \| "5475713" \| "5506866" \| "5513212" \| "5513213" \| "5521942" \| "5530718" \| "5537398" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:50 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "5537411" \| "5537436"<br>\| "5540456" \| "5548222"<br>\| "5550881" \| "5559791"<br>\| "5559792" \| "5559810"<br>\| "5563883" \| "5570295"<br>\| "5577087" \| "5602869"<br>\| "5629992" \| "5642379"<br>\| "5651114" \| "5661718"<br>\| "5671250" \| "5684825"<br>\| "5684834" \| "5711012"<br>\| "5719922" \| "5719923"<br>\| "5748811" \| "5764699"<br>\| "5793800" \| "5805669"<br>\| "5805755" \| "5812537"<br>\| "5825517" \| "5828657"<br>\| "5841500" \| "5844944"<br>\| "5859877" \| "5881047"<br>\| "5881142" \| "5901205"<br>\| "5915003" \| "5936949"<br>\| "5940438" \| "5960400"<br>\| "5963620" \| "5999563"<br>\| "6011814" \| "6021158"<br>\| "6031897" \| "6061392"<br>\| "6067297" \| "6072779"<br>\| "6075512" \| "6097858"<br>\| "6097860" \| "6101299"<br>\| "6108347" \| "6111936"<br>\| "6125148" \| "6134245"<br>\| "6154524" \| "6157680"<br>\| "6160790" \| "6175436"<br>\| "6185083" \| "6212227"<br>\| "6236481" \| "6236717"<br>\| "6243391" \| "6252644"<br>\| "6272108" \| "6272154"<br>\| "6292281" \| "6307653"<br>\| "6307893" \| "6307923"<br>\| "6320879" \| "6320993"<br>\| "6330275" \| "6335992"<br>\| "6347008" \| "6348986"<br>\| "6408056" \| "6445733"<br>\| "6470110" \| "6480645"<br>\| "6493475" \| "6529652"<br>\| "6535589" \| "6546090"<br>\| "6549692" \| "6556540"<br>\| "6580709" \| "6580785"<br>\| "6591029" \| "6597827"<br>\| "6603894" \| "6614838"<br>\| "6628857" \| "6631119"<br>\| "6633693" \| "6647058"<br>\| "6658096" \| "6671328"<br>\| "6690644" \| "6690849"<br>\| "6715124" \| "6744883"<br>\| "6771740" \| "6775355"<br>\| "6782094" \| "6782096"<br>\| "6885730" \| "6922415"<br>\| "6950444" \| "6970501"<br>\| "7006445" \| "7013421"<br>\| "7020266" \| "7023829" | | | | | |

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|---|---|---|---|---|---|---|---|
| | | \| "7035380" \| "7046798" \| "7058833" \| "7065205" \| "7127048" \| "7130338" \| "7155016" \| "7170867" \| "7248626" \| "7272215" \| "7289604" \| "7289610" \| "7352803" \| "7471777" \| "7675965" \| "7707446" \| "7711109" \| "7747000" \| "20010022836" \| "20020041662" \| "20020167949" \| "20030039348" \| "20030210773" \| "20030210779" \| "20040013183" \| "20040042510" \| "20040052361" \| "20040066929" \| "20040081233" \| "20040179662" \| "20040213170" \| "20040258236" \| "20050025153" \| "20050074057" \| "20050147158" \| "20050152404" \| "20050163303" \| "20050180545" \| "20060188088" \| "20060193465" \| "20060195712" \| "20070047730" \| "20070047733" \| "20070286187" \| "20080013608" \| "20080019432" \| "20090111422" \| "20090262911" \| "20090262912" \| "20100183055" \| "20100246598").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L72 | 4 | ("6012012" \| "20030187571" \| "20070176771" \| "20090143966").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |
| L73 | 12 | ("5418354" \| "5635981" \| "5918211" \| "6659344" \| "6725206" \| "7337960" \| "20030144793" \| "20030200152" \| "20040181463" \| "20040252025" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |

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|---|---|---|---|---|---|---|---|
| | | "20050073416" \| "20050099298").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L74 | 21 | ("6313745" \| "6354492" \| "6564189" \| "7413124" \| "20020145038" \| "20020170961" \| "20030004798" \| "20030227392" \| "20030233278" \| "20040039659" \| "20040238629" \| "20050049914" \| "20050055273" \| "20050061878" \| "20050149391" \| "20050149414" \| "20060059049" \| "20060125604" \| "20060175402" \| "20070008128" \| "20080027796").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |
| L75 | 8 | ("5914616" \| "6385259" \| "7286617" \| "7406102" \| "7415080" \| "20040052319" \| "20040071104" \| "20050152317").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |
| L76 | 4 | ("6012636" \| "7044394" \| "7083094" \| "7191952").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |
| L77 | 310 | ("4453074" \| "4582985" \| "4747147" \| "4993068" \| "5175416" \| "5180902" \| "5193114" \| "5245329" \| "5321751" \| "5438184" \| "5461217" \| "5513272" \| "5521966" \| "5534857" \| "5539825" \| "5541582" \| "5559504" \| "5559887" \| "5577121" \| "5581630" \| "5590038" \| "5590197" \| "5602918" \| "5604801" \| "5613001" \| "5677953" \| "5721781" \| "5737439" \| "5739512" \| "5742756" \| "5742845" \| "5757917" \| "5764789" \| "5778173" \| "5796831" \| "5799087" \| "5806045" \| "5815252" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 11:51 AM |

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|---|---|---|---|---|---|---|---|
| | | \| "5815657" \| "5826241"<br>\| "5832212" \| "5835894"<br>\| "5838812" \| "5857079"<br>\| "5869822" \| "5875432"<br>\| "5884271" \| "5884292"<br>\| "5889941" \| "5892211"<br>\| "5898838" \| "5901239"<br>\| "5905908" \| "5907620"<br>\| "5912446" \| "5915973"<br>\| "5917913" \| "5917925"<br>\| "5920058" \| "5920629"<br>\| "5920847" \| "5930767"<br>\| "5931917" \| "5936226"<br>\| "5942761" \| "5987155"<br>\| "5988497" \| "5995014"<br>\| "6012039" \| "6012636"<br>\| "6016476" \|<br>"RE36580" \| "6041410"<br>\| "6095413" \| "6101477"<br>\| "6104922" \| "6116736"<br>\| "6120461" \| "6148093"<br>\| "6154879" \| "6199079"<br>\| "6219639" \| "6223984"<br>\| "6233348" \| "6257486"<br>\| "6257620" \| "6263446"<br>\| "6268788" \| "6269348"<br>\| "6307956" \| "6325285"<br>\| "6327578" \| "6332193"<br>\| "6360953" \| "6424249"<br>\| "6446862" \| "6480825"<br>\| "6483929" \| "6491639"<br>\| "6496594" \| "6519565"<br>\| "6539101" \| "6560581"<br>\| "6588660" \| "6588673"<br>\| "6591249" \| "6601759"<br>\| "6601762" \| "6609656"<br>\| "6629591" \| "6636620"<br>\| "6662166" \| "6669086"<br>\| "6681328" \| "6697947"<br>\| "6703918" \| "6765470"<br>\| "6799270" \| "6799726"<br>\| "6816058" \| "6819219"<br>\| "6834795" \| "6851051"<br>\| "6873974" \| "6877097"<br>\| "6898299" \| "00H2120"<br>\| "6914517" \| "6925439"<br>\| "6925565" \| "6928181"<br>\| "6931538" \| "6934861"<br>\| "6944768" \|<br>"20010013546" \|<br>"20010013551" \|<br>"20010017584" \|<br>"20010018660" \|<br>"20010029493" \|<br>"20010036301" \|<br>"20010036835" \|<br>"20010053239" \|<br>"20020014952" \| | | | | |

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| | | "20020030581" \|<br>"20020043566" \|<br>"20020062249" \|<br>"20020062284" \|<br>"20020062291" \|<br>"20020066784" \|<br>"20020072349" \|<br>"20020073025" \|<br>"20020083320" \|<br>"20020087869" \|<br>"20020095587" \|<br>"20020095588" \|<br>"20020097142" \|<br>"20020108062" \|<br>"20020111917" \|<br>"20020128977" \|<br>"20020133725" \|<br>"20020138351" \|<br>"20020140542" \|<br>"20020147600" \|<br>"20020152123" \|<br>"20020153424" \|<br>"20020154795" \|<br>"20020163421" \|<br>"20020169673" \|<br>"20020174067" \|<br>"20020178063" \|<br>"20020178124" \|<br>"20020178369" \|<br>"20020179704" \|<br>"20020186133" \|<br>"20020188855" \|<br>"20020190124" \|<br>"20020191816" \|<br>"20030001006" \|<br>"20030004866" \|<br>"20030004881" \|<br>"20030009382" \|<br>"20030037264" \|<br>"20030046237" \|<br>"20030046540" \|<br>"20030061172" \|<br>"20030074317" \|<br>"20030086591" \|<br>"20030093187" \|<br>"20030097344" \|<br>"20030106935" \|<br>"20030112120" \|<br>"20030120626" \|<br>"20030122120" \|<br>"20030123714" \|<br>"20030125054" \|<br>"20030132297" \|<br>"20030149661" \|<br>"20030150911" \|<br>"20030152252" \|<br>"20030155416" \|<br>"20030159044" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20030167207" \|<br>"20030173408" \|<br>"20030177102" \|<br>"20030191949" \|<br>"20030208439" \|<br>"20030223625" \|<br>"20030226041" \|<br>"20030229793" \|<br>"20030236704" \|<br>"20040006497" \|<br>"20040014457" \|<br>"20040017934" \|<br>"20040020982" \|<br>"20040021552" \|<br>"20040024696" \|<br>"20040031856" \|<br>"20040041021" \|<br>"20040041690" \|<br>"20040049687" \|<br>"20040050930" \|<br>"20040052406" \|<br>"20040059923" \|<br>"20040061593" \|<br>"20040062423" \|<br>"20040083380" \|<br>"20040084524" \|<br>"20040084542" \|<br>"20040098336" \|<br>"20040118930" \|<br>"20040129787" \|<br>"20040131237" \|<br>"20040133787" \|<br>"20040136573" \|<br>"20040144841" \|<br>"20040149287" \|<br>"20040155101" \|<br>"20040158723" \|<br>"20040161135" \|<br>"20040165753" \|<br>"20040172541" \|<br>"20040178063" \|<br>"20040188519" \|<br>"20040195314" \|<br>"20040199469" \|<br>"20040202354" \|<br>"20040208343" \|<br>"20040215575" \|<br>"20040222803" \|<br>"20040230488" \|<br>"20040232220" \|<br>"20040232224" \|<br>"20040233039" \|<br>"20040236699" \|<br>"20040236701" \|<br>"20040239480" \|<br>"20040240711" \|<br>"20040255168" \|<br>"20040257196" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20050001711" \| "20050005172" \| "20050018658" \| "20050020304" \| "20050021457" \| "20050033687" \| "20050033688" \| "20050033992" \| "20050036665" \| "20050054438" \| "20050058262" \| "20050065842" \| "20050065872" \| "20050087597" \| "20050091325" \| "20050097038" \| "20050098621" \| "20050100199" \| "20050102524" \| "20050103839" \| "20050116024" \| "20050122209" \| "20050125343" \| "20050137977" \| "20050139669" \| "20050149926" \| "20050160271" \| "20050160790" \| "20050165684" \| "20050166062" \| "20050169504" \| "20050171787" \| "20050180618" \| "20050187883" \| "20050197923" \| "20050211784" \| "20050212657" \| "20050232471" \| "20050240778" \| "20050251688" \| "20050261972" \| "20050275505" \| "20060005022" \| "20060005042" \| "20060034492" \| "20060080552" \| "20060104485" \| "20060158434" \| "20060173291" \| "20060173791" \| "20060177061" \| "20060190419").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L78 | 2 | "11770759".pn. | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, | OR | ON | ON | 2023/12/07 12:22 PM |

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|---|---|---|---|---|---|---|---|
| | | | CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L79 | 2 | "11770756".pn. | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 12:25 PM |
| L80 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 03:05 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L81 | 7 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME ((sens$3 determin$4 detect$3) near6 (value near4 parameter)) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:29 PM |
| L82 | 19 | ("5646512" \| "6671635" \| "6745138" \| "6751562" \| "6771058" \| "6792337" \| "6820036" \| "6944555" \| "6990395" \| "7188003" \| "7191076" \| "7216043" \| "7248977" \| "7249265" \| "7272815" \| "7290145" \| "20030204756" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2023/12/07 03:30 PM |

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|---|---|---|---|---|---|---|---|
| | | "20050005093" \| "20050144437").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L83 | 0 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (estimat$4 near8 location near6 value near4 parameter) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:31 PM |
| L84 | 0 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME (estimat$4 near8 location near6 value near4 parameter) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/12/07 03:31 PM |
| L85 | 0 | (establish$3 NEAR capabilit$3) AND ((smart-phone (smart ADJ phone) cellular pda iphone ipad mobile watch) AND (financial NEAR transaction) AND (search$3 sens$4 scan$4) near4 value near4 parameter) AND (detect$3 determin$4) SAME (value near5 parameter) AND (master ADJ slave ADJ relationship) AND (authorization authoriz$6) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:01 PM |
| L86 | 1 | ((smart-phone (smart ADJ phone) cellular pda iphone ipad mobile watch) AND (financial NEAR transaction) AND (search$3 sens$4 scan$4) near4 value near4 parameter) AND (detect$3 determin$4) SAME (value near5 parameter) AND (master ADJ slave ADJ relationship) AND (authorization authoriz$6) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:02 PM |
| L87 | 66 | ("6595929" \| "6769607" \| "6944981" \| "6957107" \| "7028897" \| "7133659" \| "7155199" \| "RE39736" \| "7503504" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:02 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "7539241" \| "7624923" \| "7780081" \| "7822644" \| "7912629" \| "8023580" \| "8091780" \| "8249935" \| "8463238" \| "8532069" \| "8646060" \| "8965281" \| "20020170961" \| "20030172028" \| "20030220105" \| "20040030601" \| "20040143505" \| "20040143550" \| "20040170430" \| "20060009234" \| "20060085297" \| "20060133633" \| "20060144933" \| "20060145893" \| "20060159260" \| "20060165060" \| "20060172700" \| "20060194538" \| "20070129077" \| "20070167147" \| "20070178935" \| "20070184837" \| "20070197261" \| "20070243872" \| "20070250393" \| "20070260710" \| "20070265984" \| "20070285280" \| "20080040274" \| "20080140667" \| "20080140868" \| "20080146148" \| "20080167966" \| "20080200166" \| "20080227471" \| "20080306868" \| "20090023474" \| "20090058637" \| "20090113543" \| "20090153367" \| "20090169070" \| "20090213947" \| "20100067591" \| "20100265845" \| "20110314539" \| "20120214443" \| "20130156218").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L88 | 11 | ("6738964" \| "20010052846" \| "20030014643" \| "20030023554" \| "20030187787" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:02 PM |

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|---|---|---|---|---|---|---|---|
| | | "20050097038" \| "20060026205" \| "20070095892" \| "20070152035" \| "20070235539" \| "20080161045").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L89 | 5 | ("8045961" \| "20090221266" \| "20090265775" \| "20120030366" \| "20130159119").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:02 PM |
| L90 | 5 | ("7599993" \| "20030008662" \| "20040147255" \| "20050134696" \| "20050181780").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:02 PM |
| L91 | 360 | ("4644351" \| "4903212" \| "5031104" \| "5067081" \| "5182555" \| "5187810" \| "5195031" \| "5243652" \| "5337044" \| "5371678" \| "5379057" \| "5406490" \| "5416890" \| "5469362" \| "5519760" \| "5523950" \| "5537460" \| "5539395" \| "5539647" \| "5552989" \| "5559520" \| "5570412" \| "5598572" \| "5628050" \| "5636245" \| "5642303" \| "5675362" \| "5684859" \| "5689252" \| "5717392" \| "5732074" \| "5742666" \| "5745865" \| "5758049" \| "5760773" \| "5767795" \| "5793630" \| "5835061" \| "5845227" \| "5867110" \| "5870686" \| "5872526" \| "5883580" \| "5893898" \| "5898680" \| "5905451" \| "5908465" \| "5910799" \| "5933100" \| "5938721" \| "5946618" \| "5948041" \| "5948061" \| "5959577" \| "5969678" \| "5987381" \| "6014090" \| "6026375" \| "6064335" \| "6069570" \| "6073013" \| "6073062" \| "6085148" \| "6091956" \| "6091957" \| "6101443" \| "6111541" \| "6115754" \| "6119014" \| "6122520" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:02 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "6134548" \| "6138142"<br>\| "6151309" \| "6166627"<br>\| "6185427" \| "6195609"<br>\| "6199014" \| "6199045"<br>\| "6199099" \| "6202008"<br>\| "6202023" \| "6216086"<br>\| "6236365" \| "6236933"<br>\| "6246948" \| "6252544"<br>\| "6256498" \| "6259405"<br>\| "6266614" \| "6266615"<br>\| "6278884" \| "6298306"<br>\| "6321158" \| "6323846"<br>\| "6324692" \| "6326918"<br>\| "6343317" \| "6345288"<br>\| "6353398" \| "6353743"<br>\| "6353837" \| "6356761"<br>\| "6370629" \| "6377886"<br>\| "6401032" \| "6405123"<br>\| "6414635" \| "6415227"<br>\| "6452498" \| "6456234"<br>\| "6477581" \| "6490519"<br>\| "6501421" \| "6505046"<br>\| "6505123" \| "6564143"<br>\| "6570557" \| "6571279"<br>\| "6574484" \| "6587835"<br>\| "6611687" \| "6615131"<br>\| "6615213" \| "6647257"<br>\| "6677894" \| "6679932"<br>\| "6681120" \| "6697018"<br>\| "6711474" \| "6731236"<br>\| "6731238" \| "6741188"<br>\| "6748318" \| "6759960"<br>\| "6795686" \| "6810323"<br>\| "6816782" \| "6845318"<br>\| "6847891" \| "6853911"<br>\| "6853917" \| "6868074"<br>\| "6888536" \| "6912398"<br>\| "6944447" \| "6948656"<br>\| "6952181" \| "6954735"<br>\| "6975959" \| "6980909"<br>\| "7009556" \| "7044372"<br>\| "7058594" \| "7082365"<br>\| "7096030" \| "7103470"<br>\| "7117015" \| "7123189"<br>\| "7165725" \| "7187997"<br>\| "7256711" \| "7257392"<br>\| "7298327" \| "7310516"<br>\| "7339496" \| "7343564"<br>\| "7349706" \| "7359713"<br>\| "7370283" \| "7386396"<br>\| "7427021" \| "7500607"<br>\| "7525484" \|<br>"20010018349" \|<br>"20020035493" \|<br>"20020035609" \|<br>"20020042266" \|<br>"20020046069" \|<br>"20020046077" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20020046084" \|<br>"20020091991" \|<br>"20020140560" \|<br>"20020160815" \|<br>"20020167442" \|<br>"20030069683" \|<br>"20030100326" \|<br>"20030101225" \|<br>"20030134657" \|<br>"20030144793" \|<br>"20030236106" \|<br>"20040036649" \|<br>"20040054428" \|<br>"20040082351" \|<br>"20040128067" \|<br>"20040151151" \|<br>"20040158401" \|<br>"20040158584" \|<br>"20040172409" \|<br>"20040176907" \|<br>"20040198379" \|<br>"20040203836" \|<br>"20040203909" \|<br>"20040228330" \|<br>"20040236504" \|<br>"20040242149" \|<br>"20040246940" \|<br>"20040248586" \|<br>"20040260939" \|<br>"20040264442" \|<br>"20050002419" \|<br>"20050004838" \|<br>"20050027442" \|<br>"20050085272" \|<br>"20050096840" \|<br>"20050114021" \|<br>"20050149250" \|<br>"20050153681" \|<br>"20050197767" \|<br>"20050221808" \|<br>"20050221843" \|<br>"20050222756" \|<br>"20050227709" \|<br>"20050228860" \|<br>"20050239477" \|<br>"20050250440" \|<br>"20050286421" \|<br>"20060015249" \|<br>"20060022048" \|<br>"20060025158" \|<br>"20060041377" \|<br>"20060041378" \|<br>"20060058955" \|<br>"20060085392" \|<br>"20060094353" \|<br>"20060111122" \|<br>"20060172769" \|<br>"20060180649" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20060184978" \|<br>"20060195481" \|<br>"20060202819" \|<br>"20060211453" \|<br>"20060218209" \|<br>"20060229802" \|<br>"20060284767" \|<br>"20060287824" \|<br>"20070001875" \|<br>"20070005188" \|<br>"20070005233" \|<br>"20070010942" \|<br>"20070016362" \|<br>"20070042790" \|<br>"20070055684" \|<br>"20070061245" \|<br>"20070061363" \|<br>"20070073480" \|<br>"20070073719" \|<br>"20070082655" \|<br>"20070083470" \|<br>"20070093258" \|<br>"20070106465" \|<br>"20070115868" \|<br>"20070117451" \|<br>"20070124043" \|<br>"20070124066" \|<br>"20070129888" \|<br>"20070130153" \|<br>"20070135136" \|<br>"20070135990" \|<br>"20070149212" \|<br>"20070150320" \|<br>"20070153983" \|<br>"20070153984" \|<br>"20070153986" \|<br>"20070156326" \|<br>"20070179854" \|<br>"20070204218" \|<br>"20070206730" \|<br>"20070219706" \|<br>"20070232326" \|<br>"20070233387" \|<br>"20070254676" \|<br>"20070260751" \|<br>"20070271328" \|<br>"20070276586" \|<br>"20070276587" \|<br>"20070276596" \|<br>"20070282521" \|<br>"20070299601" \|<br>"20080004802" \|<br>"20080005104" \|<br>"20080005301" \|<br>"20080015422" \|<br>"20080021632" \|<br>"20080024360" \|<br>"20080024364" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20080027636" \|<br>"20080030308" \|<br>"20080032703" \|<br>"20080045234" \|<br>"20080052407" \|<br>"20080070593" \|<br>"20080071466" \|<br>"20080082254" \|<br>"20080085727" \|<br>"20080086240" \|<br>"20080091347" \|<br>"20080097698" \|<br>"20080098090" \|<br>"20080104634" \|<br>"20080109153" \|<br>"20080113672" \|<br>"20080129528" \|<br>"20080132243" \|<br>"20080132251" \|<br>"20080132252" \|<br>"20080140308" \|<br>"20080140520" \|<br>"20080153512" \|<br>"20080153513" \|<br>"20080155453" \|<br>"20080161034" \|<br>"20080167083" \|<br>"20080167811" \|<br>"20080172173" \|<br>"20080172374" \|<br>"20080176545" \|<br>"20080177793" \|<br>"20080189033" \|<br>"20080249667" \|<br>"20080271072" \|<br>"20080318550" \|<br>"20090003659" \|<br>"20090005018" \|<br>"20090005021" \|<br>"20090005068" \|<br>"20090005070" \|<br>"20090005071" \|<br>"20090005072" \|<br>"20090005076" \|<br>"20090005080" \|<br>"20090005082" \|<br>"20090005964" \|<br>"20090005965" \|<br>"20090005975" \|<br>"20090005978" \|<br>"20090005981" \|<br>"20090006336" \|<br>"20090017790" \|<br>"20090030605" \|<br>"20090031006" \|<br>"20090033540" \|<br>"20090058822" \|<br>"20090089706" \| | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20090098857" \| "20090177385" \| "20090247122" \| "20090259573" \| "20090271271" \| "20090281724" \| "20090286549").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L92 | 94 | ("5453601" \| "5496966" \| "6122625" \| "6446049" \| "6584326" \| "6679423" \| "6879965" \| "6880085" \| "7146159" \| "7233785" \| "7269256" \| "7413113" \| "7434723" \| "7475044" \| "7494067" \| "7546956" \| "7644039" \| "7644859" \| "7707113" \| "7748636" \| "7819307" \| "7822688" \| "7926714" \| "8055184" \| "8060449" \| "8107953" \| "8123128" \| "8126806" \| "8165961" \| "20010005184" \| "20020006806" \| "20020011519" \| "20020052754" \| "20020062284" \| "20020123971" \| "20020147913" \| "20030009382" \| "20030028481" \| "20030032409" \| "20030045328" \| "20030070080" \| "20030083933" \| "20030149900" \| "20030211862" \| "20040093265" \| "20040122771" \| "20040166839" \| "20040192303" \| "20040203601" \| "20050216424" \| "20050234778" \| "20060073808" \| "20060085847" \| "20060136334" \| "20060165060" \| "20060167823" \| "20060191995" \| "20060211408" \| "20070010213" \| "20070011461" \| "20070080215" \| "20070095892" \| "20070125840" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |

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|---|---|---|---|---|---|---|---|
| | | "20070145152" \| "20070198410" \| "20070223685" \| "20070233615" \| "20070234427" \| "20070244811" \| "20070248232" \| "20070255620" \| "20070255652" \| "20070281664" \| "20070291995" \| "20080059379" \| "20080067240" \| "20080126260" \| "20080201212" \| "20080238610" \| "20080297306" \| "20080315989" \| "20090018964" \| "20090046858" \| "20090050689" \| "20090078761" \| "20090097531" \| "20090253409" \| "20090270174" \| "20090313689" \| "20100030651" \| "20100094752" \| "20100133337" \| "20110006112" \| "20110053560").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L93 | 12 | ("5315096" \| "6234389" \| "20040234117" \| "20050038712" \| "20050234778" \| "20060080174" \| "20070038565" \| "20070069013" \| "20070162184" \| "20080133373" \| "20080208758" \| "20080306761").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |
| L94 | 223 | ("3736528" \| "3761840" \| "3970926" \| "4091422" \| "4335464" \| "4381546" \| "4464767" \| "4503545" \| "4509171" \| "4516216" \| "4525846" \| "4525847" \| "4532640" \| "4630286" \| "4645871" \| "4654807" \| "4663766" \| "4677625" \| "4782498" \| "4811357" \| "4862464" \| "4924516" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "4926448" \| "4939748"<br>\| "5008903" \| "5050536"<br>\| "5081647" \| "5099478"<br>\| "5168535" \| "5206854"<br>\| "5230010" \| "5239306"<br>\| "5239607" \| "5251236"<br>\| "5251328" \| "5257396"<br>\| "5280503" \| "5311557"<br>\| "5311578" \| "5345332"<br>\| "5355362" \| "5373149"<br>\| "5392154" \| "5412651"<br>\| "5414540" \| "5436930"<br>\| "5444704" \| "5448555"<br>\| "5473675" \| "5475713"<br>\| "5506866" \| "5513212"<br>\| "5513213" \| "5521942"<br>\| "5530718" \| "5537398"<br>\| "5537411" \| "5537436"<br>\| "5540456" \| "5548222"<br>\| "5550881" \| "5559791"<br>\| "5559792" \| "5559810"<br>\| "5563883" \| "5570295"<br>\| "5577087" \| "5602869"<br>\| "5629992" \| "5642379"<br>\| "5651114" \| "5661718"<br>\| "5671250" \| "5684825"<br>\| "5684834" \| "5711012"<br>\| "5719922" \| "5719923"<br>\| "5748811" \| "5764699"<br>\| "5793800" \| "5805669"<br>\| "5805755" \| "5812537"<br>\| "5825517" \| "5828657"<br>\| "5841500" \| "5844944"<br>\| "5859877" \| "5881047"<br>\| "5881142" \| "5901205"<br>\| "5915003" \| "5936949"<br>\| "5940438" \| "5960400"<br>\| "5963620" \| "5999563"<br>\| "6011814" \| "6021158"<br>\| "6031897" \| "6061392"<br>\| "6067297" \| "6072779"<br>\| "6075512" \| "6097858"<br>\| "6097860" \| "6101299"<br>\| "6108347" \| "6111936"<br>\| "6125148" \| "6134245"<br>\| "6154524" \| "6157680"<br>\| "6160790" \| "6175436"<br>\| "6185083" \| "6212227"<br>\| "6236481" \| "6236717"<br>\| "6243391" \| "6252644"<br>\| "6272108" \| "6272154"<br>\| "6292281" \| "6307653"<br>\| "6307893" \| "6307923"<br>\| "6320879" \| "6320993"<br>\| "6330275" \| "6335992"<br>\| "6347008" \| "6348986"<br>\| "6408056" \| "6445733"<br>\| "6470110" \| "6480645" | | | | | |

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| | | \| "6493475" \| "6529652"<br>\| "6535589" \| "6546090"<br>\| "6549692" \| "6556540"<br>\| "6580709" \| "6580785"<br>\| "6591029" \| "6597827"<br>\| "6603894" \| "6614838"<br>\| "6628857" \| "6631119"<br>\| "6633693" \| "6647058"<br>\| "6658096" \| "6671328"<br>\| "6690644" \| "6690849"<br>\| "6715124" \| "6744883"<br>\| "6771740" \| "6775355"<br>\| "6782094" \| "6782096"<br>\| "6885730" \| "6922415"<br>\| "6950444" \| "6970501"<br>\| "7006445" \| "7013421"<br>\| "7020266" \| "7023829"<br>\| "7035380" \| "7046798"<br>\| "7058833" \| "7065205"<br>\| "7127048" \| "7130338"<br>\| "7155016" \| "7170867"<br>\| "7248626" \| "7272215"<br>\| "7289604" \| "7289610"<br>\| "7352803" \| "7471777"<br>\| "7675965" \| "7707446"<br>\| "7711109" \| "7747000"<br>\| "20010022836" \|<br>"20020041662" \|<br>"20020167949" \|<br>"20030039348" \|<br>"20030210773" \|<br>"20030210779" \|<br>"20040013183" \|<br>"20040042510" \|<br>"20040052361" \|<br>"20040066929" \|<br>"20040081233" \|<br>"20040179662" \|<br>"20040213170" \|<br>"20040258236" \|<br>"20050025153" \|<br>"20050074057" \|<br>"20050147158" \|<br>"20050152404" \|<br>"20050163303" \|<br>"20050180545" \|<br>"20060188088" \|<br>"20060193465" \|<br>"20060195712" \|<br>"20070047730" \|<br>"20070047733" \|<br>"20070286187" \|<br>"20080013608" \|<br>"20080019432" \|<br>"20090111422" \|<br>"20090262911" \|<br>"20090262912" \|<br>"20100183055" \| | | | | | |

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|---|---|---|---|---|---|---|---|
| | | "20100246598").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L95 | 4 | ("6012012" \| "20030187571" \| "20070176771" \| "20090143966").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |
| L96 | 12 | ("5418354" \| "5635981" \| "5918211" \| "6659344" \| "6725206" \| "7337960" \| "20030144793" \| "20030200152" \| "20040181463" \| "20040252025" \| "20050073416" \| "20050099298").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |
| L97 | 21 | ("6313745" \| "6354492" \| "6564189" \| "7413124" \| "20020145038" \| "20020170961" \| "20030004798" \| "20030227392" \| "20030233278" \| "20040039659" \| "20040238629" \| "20050049914" \| "20050055273" \| "20050061878" \| "20050149391" \| "20050149414" \| "20060059049" \| "20060125604" \| "20060175402" \| "20070008128" \| "20080027796").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:03 PM |
| L98 | 45 | (master (first ADJ device)) SAME (slave (second ADJ device)) SAME ( value near4 parameter) SAME (authorization authenticat$3) | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:04 PM |
| L99 | 15 | L98 AND ( (H04W4/80 OR H04W12/06 OR H04W84/12 OR H04W12/02 OR H04W12/041 OR H04W12/0471 OR H04W12/069 OR H04W12/55 OR | (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:04 PM |

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|---|---|---|---|---|---|---|---|
| | | H04W12/61 OR H04W12/68 OR H04W4/40 OR H04W40/00 OR H04W76/00 OR H04W76/10 OR H04W76/12 OR H04W8/02 OR H04W80/10 OR H04W92/02 OR H04W92/14 OR H04W12/0431 OR H04W12/08 OR H04W12/108 OR H04W12/35 OR H04W12/50 OR H04W4/06 OR H04W48/16 OR H04W52/42 OR H04W52/50 OR H04W64/00 OR H04W76/40 OR H04W8/005 OR H04W84/18).cpc.) | | | | | |
| L100 | 6 | ("8316237" \| "9154483" \| "20170012974" \| "20190092283" \| "20190097982" \| "20230093016").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:04 PM |
| L101 | 13 | ("6058188" \| "8166309" \| "8418242" \| "8694782" \| "20040158708" \| "20040193875" \| "20050015602" \| "20060104243" \| "20060253704" \| "20070022469" \| "20070098178" \| "20090323972" \| "20110039592").pn. AND (PGPB \| USPT \| USOC).dbnm. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:05 PM |
| L102 | 15 | ("7333464" \| "7516325" \| "7835725" \| "8094822" \| "8483718" \| "20020103930" \| "20050185596" \| "20070242643" \| "20090059841" \| "20090080389" \| "20090131061" \| "20090217043" \| "20110211564" \| "20110231649" \| "20110231652").pn. | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:05 PM |

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|---|---|---|---|---|---|---|---|
| | | AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L103 | 100 | (master (first ADJ device)) AND (slave (second ADJ device)) AND (value near6 parameter) AND (authorization authenticat$3) AND (velocity) AND accelerat$3 AND (location position) AND humidity AND temperature AND height AND (brightness dakness) AND (blood ADJ pressure) AND (heart ADJ rate) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:29 PM |
| L104 | 25 | L103 AND ( (H04W4/80 OR H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W48/04 OR H04W76/10 OR H04W88/06 OR H04W4/027 OR H04W76/14 OR H04W76/16 OR H04W12/06 OR H04W68/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:30 PM |
| L105 | 22 | L103 AND ( (G06Q30/0601 OR G06Q10/087 OR G06Q10/04 OR G06Q10/067 OR G06Q10/08 OR G06Q10/103 OR G06Q30/0201 OR G06Q30/0202).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:30 PM |
| L106 | 27 | L103 AND ( (H04L67/52 OR H04L67/12 OR H04L12/1822 OR H04L51/222 OR H04L51/224 OR H04L63/08 OR H04L9/32 OR | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, | OR | ON | ON | 2024/01/02 03:30 PM |

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|---|---|---|---|---|---|---|---|
| | | H04L9/50).cpc.) | IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L107 | 10 | L103 AND ( (G06F3/011 OR G06F3/016 OR G06F1/163 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/04883 OR G06F3/167 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/0482 OR G06F3/04845 OR G06F3/04847 OR G06F3/0488 OR G06F9/451).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:31 PM |
| L108 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:31 PM |

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| | | \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L109 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:31 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | |
| L110 | 6 | L103 AND ( (H04M1/72412 OR H04M2250/02).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, | OR | ON | ON | 2024/01/02 03:32 PM |

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|---|---|---|---|---|---|---|---|
| | | | IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | | | | |
| L111 | 10 | L103 AND ( (G06F3/011 OR G06F3/016 OR G06F1/163 OR G06F2203/013 OR G06F2203/0382 OR G06F2203/0383 OR G06F2203/0384 OR G06F3/017 OR G06F3/0325 OR G06F3/038 OR G06F3/0383 OR G06F3/04817 OR G06F3/04842 OR G06F3/0487 OR G06F3/04883 OR G06F3/167 OR G06F1/1684 OR G06F21/31 OR G06F21/60 OR G06F21/78 OR G06F2203/012 OR G06F2203/04806 OR G06F2203/04808 OR G06F3/013 OR G06F3/0304 OR G06F3/0482 OR G06F3/04845 OR G06F3/04847 OR G06F3/0488 OR G06F9/451).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2024/01/02 03:33 PM |
| L112 | 106 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:33 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "9317916" \| "10790054" \| "11363986" \| "11367516" \| "11367517" \| "20070123819" \| "20080027502" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20160350514" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20180357388" \| "20190015596" \| "20200118665" \| "20200135320" \| "20200289373" \| "20200357503" \| "20220301679").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L113 | 96 | ("4755173" \| "5391250" \| "5485408" \| "5522803" \| "5665065" \| "5800420" \| "5807375" \| "5925021" \| "5954643" \| "6017328" \| "6186982" \| "6246992" \| "6248067" \| "6248093" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:33 PM |

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|---|---|---|---|---|---|---|---|
| | | \| "6355021" \| "6379301" \| "6544212" \| "6558351" \| "6591876" \| "6641533" \| "6736797" \| "6749587" \| "6766183" \| "6801420" \| "6804544" \| "7003336" \| "7029444" \| "7066909" \| "7137964" \| "7303549" \| "7399277" \| "7442186" \| "7602310" \| "7647237" \| "7699807" \| "7727148" \| "7785313" \| "7806886" \| "7819843" \| "7828764" \| "7879010" \| "7890295" \| "7892206" \| "7892748" \| "7901394" \| "7942844" \| "7946985" \| "7955305" \| "7963954" \| "7977112" \| "7979259" \| "7985330" \| "8024201" \| "8100852" \| "8114268" \| "8114269" \| "8137314" \| "8181849" \| "8182462" \| "8192395" \| "8195265" \| "8202250" \| "8207859" \| "8226615" \| "8257259" \| "8267921" \| "8275437" \| "8277415" \| "8292849" \| "8298172" \| "8303572" \| "8305580" \| "8308679" \| "8313433" \| "8318443" \| "8323250" \| "8343092" \| "8352011" \| "8353829" \| "8391104" \| "10790054" \| "20070123819" \| "20100160861" \| "20110022224" \| "20140349257" \| "20150199484" \| "20160030683" \| "20160232811" \| "20170213014" \| "20170220751" \| "20170220772" \| "20180169334" \| "20180353698" \| "20190015596" \| "20200118665" \| "20200357503").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | |
| L114 | 19 | ("9042596" \| "9110510" \| "9254099" \| "9396369" \| "9442100" \| "9529385" \| "9536449" \| "9640088" \| "20020022774" \| "20080267444" \| "20090012433" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:34 PM |

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|---|---|---|---|---|---|---|---|
| | | "20100188328" \| "20100194573" \| "20140347491" \| "20150379238" \| "20160073953" \| "20160132642" \| "20160283783" \| "20170046568").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L115 | 122 | ("3814845" \| "5065447" \| "5441047" \| "5544649" \| "5619991" \| "5646912" \| "5752621" \| "5764296" \| "5810747" \| "5911132" \| "5961446" \| "6151521" \| "6233428" \| "6283761" \| "6380858" \| "6409661" \| "6421650" \| "6483993" \| "6484144" \| "6535637" \| "6611206" \| "6705991" \| "6879970" \| "6988075" \| "7184047" \| "7184075" \| "7256708" \| "7277752" \| "7304228" \| "7307543" \| "7317967" \| "7340077" \| "7395214" \| "7415447" \| "7448544" \| "7562121" \| "7627142" \| "7657443" \| "7692625" \| "7747454" \| "7761311" \| "7769465" \| "7774075" \| "7874984" \| "7881537" \| "7908155" \| "7912733" \| "7956727" \| "7983933" \| "8321284" \| "20010049673" \| "20010056358" \| "20020026330" \| "20020093429" \| "20020143563" \| "20030164172" \| "20030190076" \| "20030225325" \| "20040100572" \| "20040107116" \| "20040155780" \| "20050144150" \| "20050149361" \| "20050180610" \| "20050182664" \| "20050234381" \| "20050267356" \| "20060066584" \| "20060218011" \| "20060238549" \| "20070008112" \| "20070008113" \| "20070030363" \| | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:34 PM |

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| | | "20070118389" \| "20070194034" \| "20070233035" \| "20070233049" \| "20070233050" \| "20070233281" \| "20070233520" \| "20070233521" \| "20070273504" \| "20080000979" \| "20080093447" \| "20080114226" \| "20080114490" \| "20080138604" \| "20080140444" \| "20080162192" \| "20080178126" \| "20080201174" \| "20080219493" \| "20080275738" \| "20080290168" \| "20080297589" \| "20080303638" \| "20090012818" \| "20090018867" \| "20090043610" \| "20090048871" \| "20090095837" \| "20090128330" \| "20090159714" \| "20090217194" \| "20090245655" \| "20100042430" \| "20100050134" \| "20100057646" \| "20100092093" \| "20100136509" \| "20100138154" \| "20100255598" \| "20100262436" \| "20100316979" \| "20110021952" \| "20110119073" \| "20110153360" \| "20110161109" \| "20110195520" \| "20110275051" \| "20120075464" \| "20140081662").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |
| L116 | 20 | ("4504153" \| "4732411" \| "5088056" \| "5347453" \| "5852590" \| "5852911" \| "5945651" \| "6150942" \| "6259654" \| "6294999" \| "6529446" \| "6877658" | (US-PGPUB; USPAT; USOCR) | OR | ON | ON | 2024/01/02 03:34 PM |

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| | | \| "7216802" \| "7311205" \| "8009913" \| "20050108044" \| "20060277269" \| "20080093448" \| "20090140513" \| "20090230015").pn. AND (PGPB \| USPT \| USOC).dbnm. | | | | | |

**PE2E SEARCH - Search History (Interference)**

| |
|---|
| There are no Interference searches to show. |

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

138517 7590 01/12/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

| EXAMINER | |
|---|---|
| VU, MICHAEL T | |
| ART UNIT | PAPER NUMBER |
| 2641 | |

DATE MAILED: 01/12/2024

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 | 5211 |

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $480 | $0.00 | $0.00 | $480 | 04/12/2024 |

**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 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted 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. 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.**

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

138517 7590 01/12/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

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 the USPTO patent electronic filing system 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. |
|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 | 5211 |

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $480 | $0.00 | $0.00 | $480 | 04/12/2024 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---|---|---|
| VU, MICHAEL T | 2641 | 455-456300 |

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/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 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)

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

❑ Electronic Payment via the USPTO patent electronic filing system ❑ 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

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 to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee 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

UNITED STATES DEPARTMENT OF COMMERCE
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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138517 7590 01/12/2024

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| EXAMINER | |
|---|---|
| VU, MICHAEL T | |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2641 | |

DATE MAILED: 01/12/2024

**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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) 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));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

| Notice of Allowability | Application No. 18/489,517 | Applicant(s) Karabinis et al. | |
|---|---|---|---|
| | Examiner MICHAEL T VU | Art Unit 2641 | AIA (FITF) Status 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 12/14/2023.
   ☐ 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 1-6 and 17-24 . 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** 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. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

## DETAILED ACTION

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

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

### *Terminal Disclaimer*

2. The terminal disclaimer filed on 12/14/2023 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 11/04/2008 (see Date of Continuation on BIB) has been reviewed and is accepted. The terminal disclaimer has been approved on 12/14/2023.

### *Allowable Subject Matter*

3. The following is an examiner's statement of reasons for allowance:

4. **Claims 1-6, 17-24** are allowed in view of Applicant's arguments or remarks filed on 12/14/2023.

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 MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles N. Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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).

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

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 | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | TOT CLAIMS | IND CLAIMS |
|---|---|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | 2641 | 1256 | 1348.002US9 | 18 | 4 |

**CONFIRMATION NO. 5211**

**REPLACEMENT FILING RECEIPT**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

*OC000000067061431*

Date Mailed: 01/17/2024

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)**

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

**Applicant(s)**

Telcom Ventures LLC, Miami, FL;

**Power of Attorney:** The patent practitioners associated with Customer Number 138517

**Domestic Priority data as claimed by applicant**

This application is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

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:** 10/30/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/489,517**

**Projected Publication Date:** 02/08/2024

**Non-Publication Request:** No

**Early Publication Request:** No
**** SMALL ENTITY ****
**Title**

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

**Preliminary Class**

455

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

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

## LICENSE FOR FOREIGN FILING UNDER

## Title 35, United States Code, Section 184

## Title 37, Code of Federal Regulations, 5.11 & 5.15

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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 AssetsControl, 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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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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor

community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **01/19/2024 09:11:22 AM Z ET** | **1348.002US9** |

## Title of Invention

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 64010355 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 2**

| DOCUMENT | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|
| web85b.pdf | 3 | Issue Fee Payment (PTO-85B) | 60 KB |
| 312Amendment1348002US9.pdf | 3 | Amendment after Notice of Allowance (Rule 312) | 69 KB |

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| web85b.pdf | C58D9D02076343EE9A03D3DDBA1908962B6582ACF3A0DE97802ED65DCDBBBFDE00DB557E38008E0281067AAD91598AD0B9D431E35033908B4B528DEF2DA67B8 |

| | |
|---|---|
| 312Amendment1348002US9.pdf | 7E031F6C42FD34CC7E043C5BA75C203CC28FF96DF0815B66ACD475C98A08D597EA3C242CBEADA09B0D2F5A9793C236003A92A452349777545A20F1F6CC8A925A |

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 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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# ELECTRONIC PAYMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| 18/489,517 | 01/19/2024 09:11:22 AM Z ET | 1348.002US9 |

## Title of Invention

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | - |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 64010355 | AUTHORIZED BY | Aaron Pederson |
| CUSTOMER # | 138517 | FILING DATE | 10/18/2023 |
| CORRESPONDENCE ADDRESS | - | FIRST NAMED INVENTOR | Peter D. Karabinis |

## Payment Information

| PAYMENT METHOD | PAYMENT TRANSACTION ID | PAYMENT AUTHORIZED BY |
|---|---|---|
| DA / 502880 | E202411011435062 | Aaron Pederson |

PRE-AUTHORIZED ACCOUNT

502880

PRE-AUTHORIZED CATEGORY

37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

| FEE CODE | DESCRIPTION | ITEM PRICE($) | QUANTITY | ITEM TOTAL($) |
|---|---|---|---|---|
| 2501 | UTILITY ISSUE FEE | 480.00 | 1 | 480.00 |
| | | | TOTAL AMOUNT: | $480.00 |

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 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.

# ISSUE FEE TRANSMITTAL FORM

| APPLICATION # | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET # |
|---|---|---|---|
| 18489517 | 10/18/2023 | Peter Karabinis | 1348.002US9 |

## Title of Invention

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Nonprovisional Application under 35 USC 111(a) | DATE DUE | 04/12/2024 |
| CONFIRMATION # | 5211 | ISSUE FEE DUE | $ 480 |
| EXAMINER | MICHAEL VU | PUBLICATION DUE | $ 0 |
| GROUP ART UNIT | 2641 | TOTAL FEES DUE | $480 |
| CLASS - SUBCLASS | 455/456300 | PREV. PAID FEE | $ 0 |
| ENTITY STATUS | Small | | |

**1. CHANGE OF CORRESPONDENCE ADDRESS AND/OR INDICATION OF FEE ADDRESS (37 CFR 1.33 & 1.363)**

### Correspondence Address

**CURRENT ADDRESS**

### Maintenance Fee Address

**CURRENT ADDRESS**

☐ Change of correspondence address requested,system generated AIA/122-PC form attached

☐ Fee address indication requested, system generatedSB/47-PC form attached

**2. ENTITY STATUS**

## Change in Entity Status

**NEW STATUS**

**3. THE FOLLOWING FEES ARE SUBMITTED**

- [x] Issue Fee
- [x] Publication Fee

**4. FEE AUTHORIZATION**

- [ ] I authorize USPTO to apply my previously paid issue fee to the current fees due
- [ ] The Director is herby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number:
- [x] If in addition to the payment of the issue fee amount submitted with this form, there are any discrepencies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number: 502880

**5. FIRM AND/OR ATTORNEY NAMES TO BE PRINTED**

NOTE: If no name is listed, no name will be printed
For printing on the patent front page, list to be displayed as entered

Carlson, Caspers, Vandenburgh & Lindquist, P.A.

**6. ASSIGNEE NAME(S) AND RESIDENCE DATA TO BE PRINTED**

NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

**Signature**

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also

certify that this Fee(s) Transmittal form is being transmitted to the USPTO via Patent Center on the date indicated below.

| Signature | Name | Registration # | Date |
|---|---|---|---|
| /Aaron Pederson/ | Aaron Pederson | 58607 | 01/19/2024 |

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Inventor(s) | : | Peter D. Karabinis |
| Filed | : | October 18, 2023 |
| Art Unit | : | 2641 |
| Examiner | : | Michael T. Vu |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138715 |
| Title | : | SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE |

**AMENDMENT UNDER 37 C.F.R. § 1.312**

Mail Stop: Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant acknowledges receipt of the Notice of Allowance mailed January 12, 2024 in the above-identified patent application and respectfully requests the following amendments be entered prior to the issuance of a patent in this matter. Please consider the following:

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks** begin on page 3 of this paper.

**AMENDMENTS TO THE SPECIFICATION**

Please replace the title of the application with the following title:

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANCIAL TRANSACTIONS BY A SMARTPHONE

## REMARKS

Claims 1-6 and 17-24 have been allowed. A Notice of Allowance was mailed on January 12, 2024. With this paper, the title of the application has been amended. This amendment does not affect the substance of the examination and does not require a new search. This amendment does not contain new matter.

## CONCLUSION

Applicant believes no fee is due with this response. However, if a fee is due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Date: January 19, 2024

By: /Aaron Pederson/
Aaron Pederson
Reg. No. 58,607
(612) 436-9609

OK TO ENTER: /M.T.V/

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Inventor(s) | : | Peter D. Karabinis |
| Filed | : | October 18, 2023 |
| Art Unit | : | 2641 |
| Examiner | : | Michael T. Vu |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138715 |
| Title | : | SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE |

**AMENDMENT UNDER 37 C.F.R. § 1.312**

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**Remarks** begin on page 3 of this paper.

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| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 |

**CONFIRMATION NO. 5211**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

**PUBLICATION NOTICE**

*OC000000068081362*

Date Mailed: 02/09/2024

**Title:**SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

**Publication No.**US-2024-0049110-A1
**Publication Date:**02/08/2024

## NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's 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 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.

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

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

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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 | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | TOT CLAIMS | IND CLAIMS |
|---|---|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | 2641 | 1256 | 1348.002US9 | 18 | 4 |

**CONFIRMATION NO. 5211**

**REPLACEMENT FILING RECEIPT**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

*OC000000068337629*

Date Mailed: 02/14/2024

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)**

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

**Applicant(s)**

Telcom Ventures LLC, Miami, FL;

**Power of Attorney:** The patent practitioners associated with Customer Number 138517

**Domestic Priority data as claimed by applicant**

This application is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

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:** 10/30/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/489,517**

**Projected Publication Date:** 02/08/2024

**Non-Publication Request:** No

**Early Publication Request:** No
**** SMALL ENTITY ****
**Title**

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANICAL TRANSACTIONS BY A SMARTPHONE

**Preliminary Class**

455

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

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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## Title 35, United States Code, Section 184

## Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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 AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

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---

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community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 18/489,517 | 03/05/2024 | 11924743 | 1348.002US9 | 5211 |

138517 7590 02/14/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

# ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

**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 Center (https://patentcenter.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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Telcom Ventures LLC, Miami, FL;

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.

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United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

| APPLICATION NUMBER | FILING or 371(c) DATE | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | TOT CLAIMS | IND CLAIMS |
|---|---|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | 2641 | 1256 | 1348.002US9 | 18 | 4 |

**CONFIRMATION NO. 5211**

**REPLACEMENT FILING RECEIPT**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

*OC00000068391619*

Date Mailed: 02/15/2024

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)**

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

**Applicant(s)**

Telcom Ventures LLC, Miami, FL;

**Power of Attorney:** The patent practitioners associated with Customer Number 138517

**Domestic Priority data as claimed by applicant**

This application is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

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:** 10/30/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/489,517**

**Projected Publication Date:** 02/08/2024

**Non-Publication Request:** No

**Early Publication Request:** No
**** SMALL ENTITY ****
**Title**

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

**Preliminary Class**

455

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

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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## Title 37, Code of Federal Regulations, 5.11 & 5.15

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**NOT GRANTED**

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---

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community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

# ELECTRONIC ACKNOWLEDGEMENT RECEIPT

| APPLICATION # | RECEIPT DATE / TIME | ATTORNEY DOCKET # |
|---|---|---|
| **18/489,517** | **02/15/2024 09:19:52 AM Z ET** | **1348.002US9** |

## Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

## Application Information

| | | | |
|---|---|---|---|
| APPLICATION TYPE | Utility - Nonprovisional Application under 35 USC 111(a) | PATENT # | 11924743 |
| CONFIRMATION # | 5211 | FILED BY | SAGE KRUSE |
| PATENT CENTER # | 64329901 | FILING DATE | 10/18/2023 |
| CUSTOMER # | 138517 | FIRST NAMED INVENTOR | Peter D. Karabinis |
| CORRESPONDENCE ADDRESS | - | AUTHORIZED BY | Aaron Pederson |

## Documents

**TOTAL DOCUMENTS: 2**

| DOCUMENT | PAGES | DESCRIPTION | SIZE (KB) |
|---|---|---|---|
| RequestforCorrectedFilingReceipt1348002US9.pdf | 2 | Request for Corrected Filing Receipt | 69 KB |
| ADS1348002US9.pdf | 9 | Application Data Sheet | 12074 KB |

Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

## Digest

| DOCUMENT | MESSAGE DIGEST(SHA-512) |
|---|---|
| RequestforCorrectedFilingReceipt1348002US9.pdf | D7C6C94C0CE8CBEB784376A5C48CDC674B5A5E50E9F4C753C18ECA40C19FB108E6B1FFA125903EDF36057E4CBF524AE |

C070716723AFA94EB85A2D85C1BFB2F15

ADS1348002US9.pdf

10BD5FB67B7424A0D1F01C3A0D2643E31056EEA5A85A8EA45
D71BFEEDE1C26CB3F307E80C2E5DBDA208D1E777E9FAB64
6E67BED1010A3C42846820CFC44D6842

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 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.

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

## Secrecy Order 37 CFR 5.2:

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

## Inventor Information:

**Inventor 1** Remove

**Legal Name**

| Prefix | Given Name | Middle Name | Family Name | Suffix |
|---|---|---|---|---|
| | Peter | D. | Karabinis | |

**Residence Information (Select One)** ◉ US Residency ○ Non US Residency ○ Active US Military Service

| City | Cary | State/Province | NC | Country of Residence | US |
|---|---|---|---|---|---|

**Mailing Address of Inventor:**

| Address 1 | 101 Chalon Drive | | |
|---|---|---|---|
| Address 2 | | | |
| City | Cary | State/Province | NC |
| Postal Code | 27511 | Country | US |

**Inventor 2** Remove

**Legal Name**

| Prefix | Given Name | Middle Name | Family Name | Suffix |
|---|---|---|---|---|
| | Rajendra | | Singh | |

**Residence Information (Select One)** ◉ US Residency ○ Non US Residency ○ Active US Military Service

| City | Indian Creek Village | State/Province | FL | Country of Residence | US |
|---|---|---|---|---|---|

**Mailing Address of Inventor:**

| Address 1 | 23 Indian Creek Island Road | | |
|---|---|---|---|
| Address 2 | | | |
| City | Indian Creek Village | State/Province | FL |
| Postal Code | 33154 | Country | US |

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

## Correspondence Information:

**Enter either Customer Number or complete the Correspondence Information section below.**
**For further information see 37 CFR 1.33(a).**

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

☐ **An Address is being provided for the correspondence Information of this application.**

| | | | |
|---|---|---|---|
| **Customer Number** | 138517 | | |
| **Email Address** | docketing@carlsoncaspers.com | Add Email | Remove Email |

## Application Information:

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANCIAL TRANSACTIONS BY A SMARTPHONE

| | | | |
|---|---|---|---|
| **Title of the Invention** | ~~MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER~~ | | |
| **Attorney Docket Number** | 1348.002US9 | **Small Entity Status Claimed** | ☒ |
| **Application Type** | Nonprovisional | | |
| **Subject Matter** | Utility | | |
| **Total Number of Drawing Sheets (if any)** | 3 | **Suggested Figure for Publication (if any)** | |

## 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: | ◉ Customer Number | ○ US Patent Practitioner | ○ Limited Recognition (37 CFR 11.9) |
| Customer Number | 138517 | | |

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## 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 | | Remove |
|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |
| | Continuation of | 18450517 | 2023-08-16 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 18450517 | Continuation of | 17653748 | 2022-03-07 | 11770756 | 2023-09-26 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 17653748 | Continuation of | 15929609 | 2020-05-12 | 11304118 | 2022-04-12 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15929609 | Continuation of | 16012513 | 2018-06-19 | 10660015 | 2020-05-19 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 16012513 | Division of | 15800885 | 2017-11-01 | 10219199 | 2019-02-26 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15800885 | Continuation of | 15251882 | 2016-08-30 | 9832708 | 2017-11-28 |

| Prior Application Status | Patented | | | | Remove |
|---|---|---|---|---|---|
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 15251882 | Continuation of | 12264711 | 2008-11-04 | 9462411 | 2016-10-04 |

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

## Foreign Priority Information:

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

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

Remove

| Application Number | Country[i] | Filing Date (YYYY-MM-DD) | Access Code[i] (if applicable) |
|---|---|---|---|
| | | | |

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

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

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

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## 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.

| Application Data Sheet 37 CFR 1.76 | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

## Applicant Information:

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

**Applicant 1** Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

| | | |
|---|---|---|
| (•) 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:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. [X]

| | |
|---|---|
| Organization Name | Telcom Ventures LLC |

**Mailing Address Information For Applicant:**

| | | | |
|---|---|---|---|
| **Address 1** | 200 South Biscayne Blvd., 40th Floor | | |
| Address 2 | | | |
| **City** | Miami | **State/Province** | FL |
| **Country** | US | Postal Code | 33131 |
| Phone Number | | Fax Number | |
| Email Address | | | |

Additional Applicant Data may be generated within this form by selecting the Add button. Add

## Assignee Information including Non-Applicant Assignee Information:

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

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
|---|---|---|
| | Application Number | |
| Title of Invention | MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER | |

**Assignee 1**

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

| Prefix | **Given Name** | Middle Name | **Family Name** | Suffix |
|---|---|---|---|---|
| | | | | |

**Mailing Address Information For Assignee including Non-Applicant Assignee:**

| | | | |
|---|---|---|---|
| **Address 1** | | | |
| Address 2 | | | |
| **City** | | **State/Province** | |
| **Country** i | | Postal Code | |
| Phone Number | | Fax Number | |
| Email Address | | | |

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

## Signature:

Remove

**NOTE:** This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

| **Signature** | /Aaron Pederson/ | | | Date (YYYY-MM-DD) | 2024-02-15 |
|---|---|---|---|---|---|
| First Name | Aaron | Last Name | Pederson | Registration Number | 58607 |

Additional Signature may be generated within this form by selecting the Add button. Add

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
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| **Application Data Sheet 37 CFR 1.76** | Attorney Docket Number | 1348.002US9 |
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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.**

# 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 CooperationTreaty.

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.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | | |
|---|---|---|
| Appl. No. | : | 18/489,517 |
| Applicant | : | Telcom Ventures LLC |
| Filed | : | October 18, 2023 |
| Art Unit | : | 2641 |
| Examiner | : | Michael T Vu |
| Confirmation No.: | | 5211 |
| Docket No. | : | 1348.002US9 |
| Customer No. | : | 138517 |
| Title | : | SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANCIAL TRANSACTIONS BY A SMARTPHONE (As Amended) |

**REQUEST FOR CORRECTED FILING RECEIPT**

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

Dear Sir or Madam:

Applicant has reviewed the replacement filing receipts dated February 14, 2024 and February 15, 2024 and noticed the title of the application is incorrect. The title of the application should read:

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANCIAL TRANSACTIONS BY A SMARTPHONE

Applicant respectfully requests this correction be acknowledged and an updated Filing Receipt be issued, and the correct title be issued on the face of the patent.

It is believed that no fee is due in connection with this filing. However, if the Commissioner determines that fees under 37 C.F.R. §§ 1.16 to 1.21 are required for any reason, the Commissioner is hereby authorized to deduct said fee from Deposit Account No.: 50-2880.

Respectfully submitted,

Date: February 15, 2024

By: /Aaron W. Pederson/
Aaron W. Pederson
Reg. No. 58,607
612-436-9609

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 | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | TOT CLAIMS | IND CLAIMS |
|---|---|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | 2641 | 1256 | 1348.002US9 | 18 | 4 |

**CONFIRMATION NO. 5211**

**REPLACEMENT FILING RECEIPT**

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

*OC000000068461561*

Date Mailed: 02/20/2024

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)**

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

**Applicant(s)**

Telcom Ventures LLC, Miami, FL;

**Power of Attorney:** The patent practitioners associated with Customer Number 138517

**Domestic Priority data as claimed by applicant**

This application is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

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:** 10/30/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/489,517**

**Projected Publication Date:** 02/08/2024

**Non-Publication Request:** No

**Early Publication Request:** No
**** SMALL ENTITY ****
**Title**

SYSTEMS/METHODS OF ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE FINANCIAL TRANSACTIONS BY A SMARTPHONE

**Preliminary Class**

455

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

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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## Title 35, United States Code, Section 184

## Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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 AssetsControl, 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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community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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 NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 18/489,517 | 10/18/2023 | Peter D. Karabinis | 1348.002US9 | 5211 |

138517 7590 03/05/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

| EXAMINER | |
|---|---|
| VU, MICHAEL T | |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2641 | |

| NOTIFICATION DATE | DELIVERY MODE |
|---|---|
| 03/05/2024 | 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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

| APPLICATION NO. | ISSUE DATE | PATENT NO. |
|---|---|---|
| 18/489,517 | 05-Mar-2024 | 11924743 |

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Minneapolis, MN 55402

# EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants