ABSTRACT

A system (10) and method (30) comprises a detector that is configured to enable a mode of a first device (14) and/or to enable a mode of a second device (15) responsive to a detection that a proximity criterion is satisfied between the first device and an entity (Entity 1) and responsive to at least one of a position, velocity and a Time-of-Day and where the second device is not the entity and is not associated with the entity, and where the entity is not involved in providing a communications service to the first and/or second device.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT2DV
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

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:

Remove

Inventor 1

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

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Inventor 2

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:

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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).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT2DV
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Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	20792		
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Application Information:

Title of the Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION		
Attorney Docket Number	9466-24TSCT2DV	**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.

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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)
	Division of	15/800885	2017-11-01

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/800885	Continuation of	15/251882	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)
15/251882	Continuation of	12/264711	2008-11-04	9462411	2016-10-04

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

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[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.

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

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☐ 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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT2DV
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT2DV
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Applicant Information:

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

Applicant 1

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

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. ☒

Organization Name	Telcom Ventures, LLC		
Mailing Address Information For Applicant:			
Address 1	200 South Biscayne Blvd.		
Address 2	Suite 2790		
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.

Assignee Information including Non-Applicant Assignee Information:

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	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Assignee 1

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

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

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

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Signature:

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

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

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

Signature				Date (YYYY-MM-DD)	2018-06-19
First Name	Vernon H.	Last Name	Guthrie	Registration Number	63798

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT2DV
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

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.**

Claims:

1. A method comprising:

detecting by a sensor that an item has been displaced in a store; and

establishing a communications link with an electronic device of a customer associated with the item and, in response to said detecting, providing for display on said electronic device a price associated with the item.

2. The method of Claim 1, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in a conveyance apparatus.

3. The method of Claim 2, wherein said conveyance apparatus comprises a shopping cart.

4. The method of Claim 3, wherein said detecting is performed by the shopping cart.

5. The method of Claim 1, further comprising:

charging an account associated with said electronic device for the item that has been displaced.

6. The method of Claim 5, wherein said charging an account associated with said electronic device is enabled when said electronic device is proximate to a specific location of said store.

7. The method of Claim 1, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

8. The method of Claim 1,

wherein said detecting comprises detecting that the item has been displaced from a shelf of said store, and

wherein the method further comprises:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of said store and ceasing from displaying on said electronic device said price associated with the item.

9. A system that is configured to perform operations comprising:

detecting by a sensor that an item has been displaced from a shelf of a store; and

establishing a communications link with an electronic device of a customer associated with the item and, in response to said detecting, providing for display on said electronic device a price associated with the item.

10. The system of Claim 9, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in a conveyance apparatus.

11. The system of Claim 9, wherein said operations further comprise:

charging an account associated with said electronic device for the item that has been displaced.

12. The system of Claim 11, wherein said charging an account associated with said electronic device is enabled when said electronic device is proximate to a specific location of said store.

13. The system of Claim 9, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

14. The system of Claim 9, wherein said operations further comprise:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of said store and ceasing from displaying on said electronic device said price associated with the item.

15. The system of Claim 9, wherein said operations further comprise:

in response to said detecting, providing for display on said electronic device a manufacturer associated with the item.

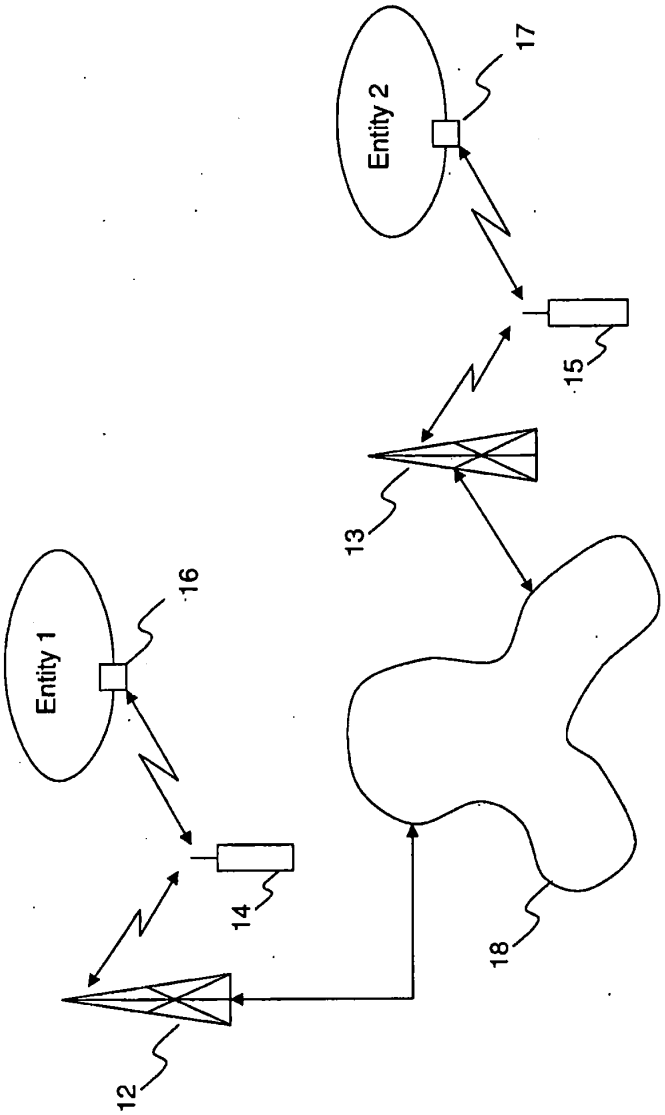


FIG. 1

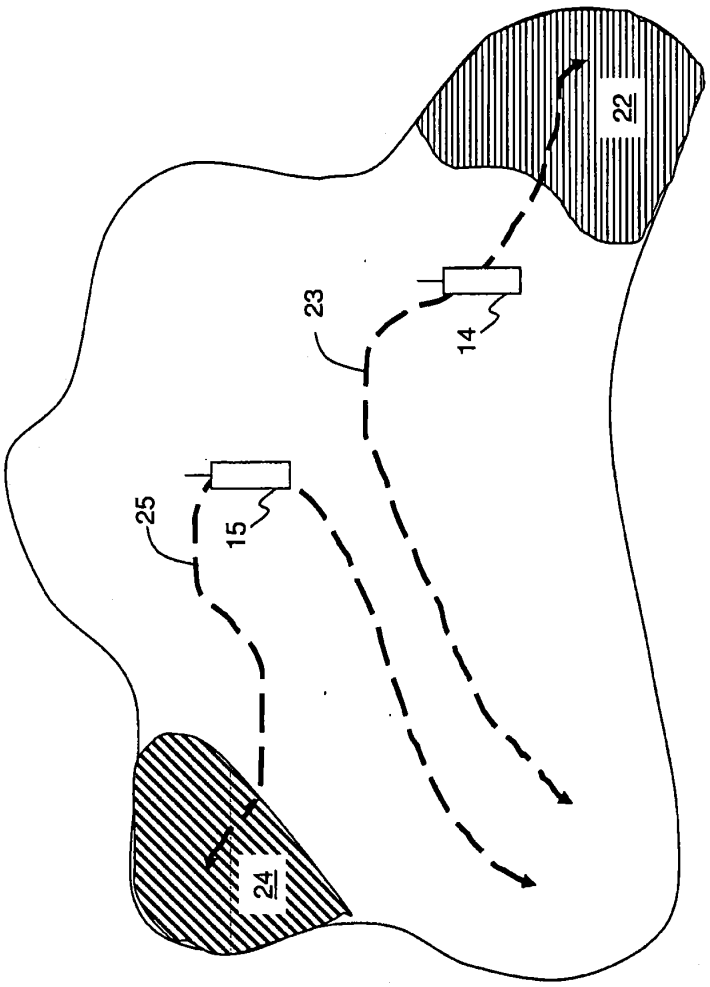
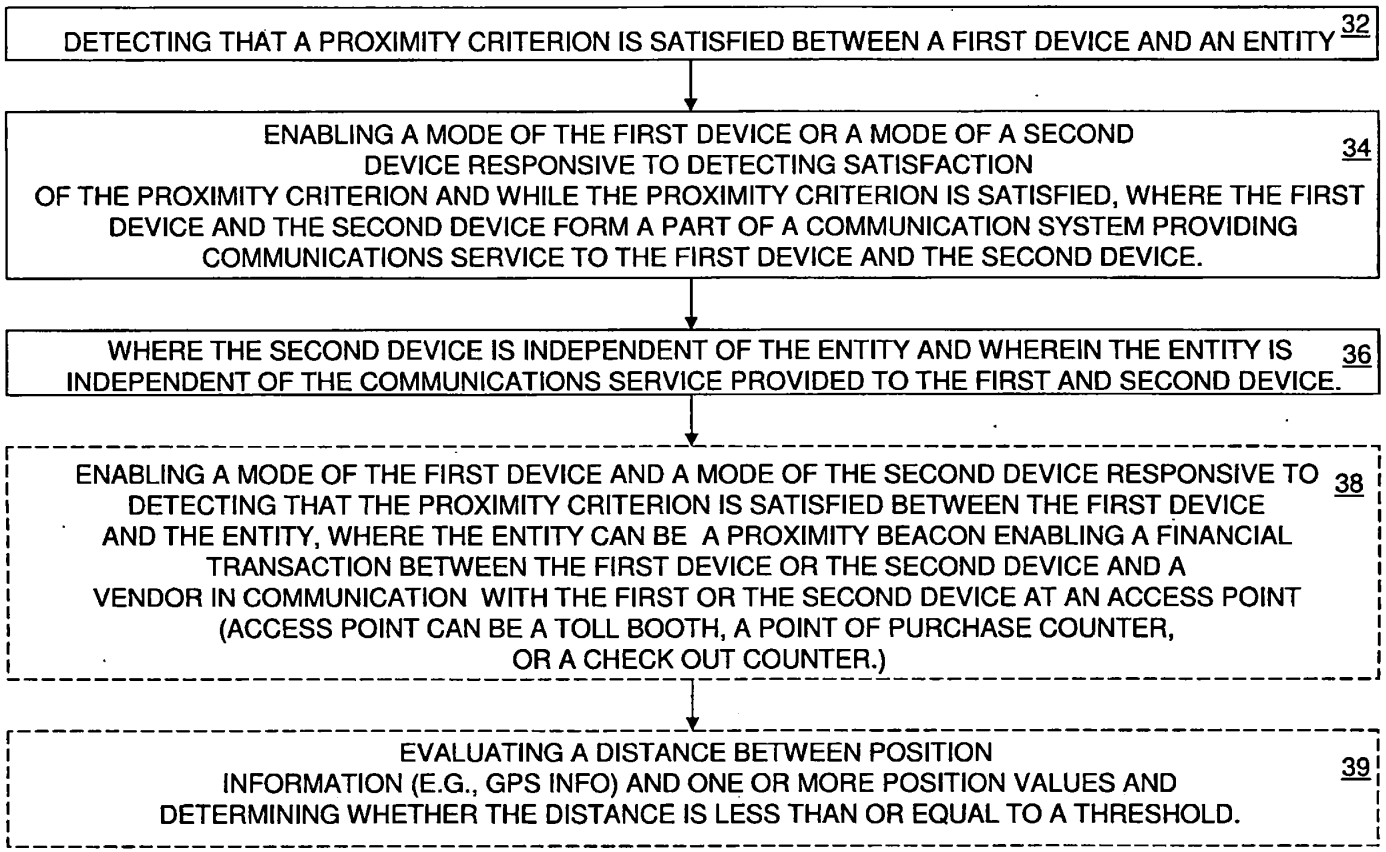


FIG. 2

FIG. 3 30



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	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929		2003-07-22	STIVORIC JOHN M; et al.	
	2	6769607		2004-08-03	PITRODA SATYAN G; et al.	
	3	6957107		2005-10-18	ROGERS BOBBY E; et al.	
	4	7028897		2006-04-18	FERNANDES JORGE M; et al.	
	5	7133659		2006-11-07	ZALEWSKI THOMAS W; et al.	
	6	7155199		2006-12-26	ZALEWSKI THOMAS W; et al.	
	7	RE 39736		2007-07-17	MORRILL, JR.	
	8	7539241		2009-05-26	DICK CHRISTOPHER H	

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	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	9	7822644		2010-10-26	ALBERTH JR WILLIAM P; et al.	
	10	7912629		2011-03-22	SUTTER DAVID WILLIAM; et al.	
	11	8023580		2011-09-20	BREMER GORDON F	
	12	8463238		2013-06-11	FORSTALL SCOTT; et al.	
	13	8532069		2013-09-10	BALWANI RAMESH	
	14	8646060		2014-02-04	BEN AYED MOURAD	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030220105		2003-11-27	DAIGREMONT JOHANN; et al.	
	2	20040030601		2004-02-12	POND RUSSELL L; et al.	
	3	20040170430		2004-09-02	GOROKHOV ALEXEI	

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	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	4	20060009234		2006-01-12	FREER CARL J	
	5	20060133633		2006-06-22	HYVONEN LASSI; et al.	
	6	20060145893		2006-07-06	HASSETT JOHN J	
	7	20060159260		2006-07-20	PEREIRA LUIS R; et al.	
	8	20060172700		2006-08-03	WU PETER	
	9	20060194538		2006-08-31	PALIN ARTO; et al.	
	10	20070167147		2007-07-19	KRASNER NORMAN F; et al.	
	11	20070178935		2007-08-02	SHIM CHUNG SEOB; et al.	
	12	20070184837		2007-08-09	HOHL FRITZ; et al.	
	13	20070197261		2007-08-23	HUMBEL ROGER M	
	14	20070243872		2007-10-18	GALLAGHER MICHAEL D; et al.	

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	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	15	20070250393		2007-10-25	ALBERTH JR WILLIAM P; et al.	
	16	20070265984		2007-11-15	SANTHANA PRAKASH	
	17	20070285280		2007-12-13	ROBINSON BENJAMIN P; et al.	
	18	20080040274		2008-02-14	UZO CHIJIOKE CHUKWUEMEKA	
	19	20080140868		2008-06-12	KALAYJIAN NICHOLAS; et al.	
	20	20080146148		2008-06-19	HULVEY ROBERT WILLIA	
	21	20080167966		2008-07-10	RAMSDALE DAVID; et al.	
	22	20080200166		2008-08-21	MCCAMON MICHAEL G	
	23	20080227471		2008-09-18	DANKAR AJAY; et al.	
	24	20080306868		2008-12-11	ROBINSON BENJAMIN P; et al.	
	25	20090023474		2009-01-22	LUO XUN; et al.	

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	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	26	20090113543		2009-04-30	ADAMS NEIL P; et al.	
	27	20090153367		2009-06-18	LEE YONG WHI	
	28	20090169070		2009-07-02	FADELL ANTHONY	
	29	20090213947		2009-08-27	RAO RAGHAVENDAR M; et al.	
	30	20100067591		2010-03-18	LUO TAO; et al.	
	31	20100265845		2010-10-21	LAMPEN PATRIK	
	32	20110314539		2011-12-22	HORTON MICHAEL	
	33	20120214443		2012-08-23	DAIGLE MARK R	
	34	20130156218		2013-06-20	ANNACONE WILLIAM R; et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

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]

EFS Web 2.1.18

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

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	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

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	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2018-06-19
Name/Print	Vernon H. Guthrie	Registration Number	63798

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.**

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.

Electronic Acknowledgement Receipt	
EFS ID:	32942777
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Vernon H. Guthrie Jr./Meredith Downing
Filer Authorized By:	Vernon H. Guthrie Jr.
Attorney Docket Number:	9466-24TSCT2DV
Receipt Date:	19-JUN-2018
Filing Date:	
Time Stamp:	18:02:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$785
RAM confirmation Number	062018INTEFSW18161200
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	9466-24TSCT2DV_App_Transmittal.pdf	124859 9f81669140cb6a15b9a2c4f3c0acd0472520e6d9	no	1
Warnings:					
Information:					
2	Application Data Sheet	9466-24TSCT2DV_ADS.pdf	834057 676793c0b0536d0b328a17a9d767591c358a41d8	no	8
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Miscellaneous Incoming Letter	9466-24TSCT2DV_Remarks.pdf	66522 d018df57dc5afedf0dfc0edc63fb7ecba4d7dc30	no	1
Warnings:					
Information:					
4		9466-24TSCT2DV_Specification.pdf	159446 3d15419930e546f1e9a5847e48bf9f9f16156d77	yes	23

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	19
Claims	20	22
Abstract	23	23

Warnings:	
Information:	

5	Drawings-only black and white line drawings	9466-24TSCT2DV_Drawings.pdf	63393 a7d6302f7fc08c0635ab8da4d457f04aab00692c	no	3
Warnings:					
Information:					
6	Oath or Declaration filed	9466-24TSCT2DV_Declaration.pdf	78774 d8e3b2c5a01af35439ea5879a3095de9adcf89e1	no	2
Warnings:					
Information:					
7	Power of Attorney	9466-24TSCT2DV_POA.pdf	250121 6c6970d77ae2dabb84561d97d03f302053d26401	no	2
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	9466-24TSCT2DV_IDS.pdf	1055145 d96c59fa96c8e29bc17eb5a2e1515a532c06b27e	no	8
Warnings:					
Information:					
9	Non Patent Literature	9466-24TSCT2DV_NPL_Digital Wallet.pdf	229052 773026c671556637f8f142c3d2bbde25be8e2764	no	4
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	9466-24TSCT2DV_NPL_ISR.pdf	490131 bf052a7af445f14d24e0d1c788b32e486186affe	no	8
Warnings:					
Information:					
11	Fee Worksheet (SB06)	fee-info.pdf	35573 3c22dfb6c0c3b51813e232442a0f72c034b896fd	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3387073		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

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 1

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**

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

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
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.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	To Be Assigned
Filing Date	Concurrently Herewith
First Named Inventor	PETER D. KARABINIS
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
Art Unit	
Examiner Name	
Attorney Docket Number	9466-24TSCT2DV

SIGNATURE of Applicant or Patent Practitioner

Signature	Vernon Guthrie	Date (Optional)	June 19, 2018
Name	Vernon H. Guthrie	Registration Number	63,798
Title (if Applicant is a juristic entity)	Patent Attorney		
Applicant Name (if Applicant is a juristic entity)	Telcom Ventures, LLC		

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

☑ *Total of 1 forms are submitted.

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

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

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

PTO/AIA/82B(07-12)
Approved for use through 11/30/2014; OMB 0651-0035
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.

POWER OF ATTORNEY BY APPLICANT

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

☒ I hereby appoint 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 equivalent): 20792

OR

☐ I hereby appoint Practitioner(s) named below 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 equivalent):

Name	Registration Number	Name	Registration Number

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

☒ The address associated with the above-mentioned Customer Number.
OR
☐ The address associated with Customer Number:
OR
☐ Firm or Individual Name

Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant:

☐ Inventor or Joint Inventor
☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
☐ 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)

SIGNATURE of Applicant for Patent

Signature	Rajendra Singh	Date	2/7/2013
Name	Rajendra Singh	Telephone	703 447 2788
Title and Company	Chairman, Telcom Ventures, L.L.C.		

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. Submit multiple forms for more than one signature, see below *.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
PABLO MELES
AKERMAN SENTERFITT
222 LAKEVIEW AVENUE, 4TH FLOOR
WEST PALM BEACH, FL 33402-3188

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* 23 DEC 2009
Applicant's or agent's file reference 8382-3WO	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 09/62792	International filing date *(day/month/year)* 30 October 2009 (30.10.2009)
Applicant TELCOM VENTURES, LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270

   For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/220 (January 2004) *(See notes on accompanying sheet)*

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 8382-3WO	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 09/62792	International filing date *(day/month/year)* 30 October 2009 (30.10.2009)	(Earliest) Priority Date *(day/month/year)* 04 November 2008 (04.11.2008)
Applicant TELCOM VENTURES, LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 9 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 09/62792

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04W 36/00 (2009.01)
USPC - 455/440
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC - 455/440

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 455/404.2, 440 (keyword limited - see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB,USPT,EPAB,JPAB); Google; Search Terms Used:
proximity, device, entity, distance, position, range, threshold, financial, transaction, purchase, payment, enable, mode, orthogonal frequency-division multiplex, OFDM, time division duplex, TDD, wireless, mobile, licensed, unlicensed, receive, transmit, vehicle, cart

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2004/0030601 A1 (Pond et al.) 12 February 2004 (12.02.2004), Fig 3, 5A, 7, 14, para [0032], [0034], [0069]-[0070], [0078], [0083], [0088], [0101], [0131], [0135], [0141]	1-4, 6-11, 15-18, 20-24 --- 5, 12-14, 19
X --- Y	US 2007/0167147 A1 (Krasner et al.) 19 July 2007 (19.07.2007), Fig 1, 2, 4, para [0041]-[0043], [0051]-[0052], [0067]	25, 26 --- 5, 12-14, 19
A	US 2006/0009234 A1 (Freer) 12 January 2006 (12.01.2006), entire document	1 - 26
A	US 2007/0285280 A1 (Robinson et al.) 13 December 2007 (13.12.2007), entire document	1 - 26

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
11 December 2009 (11.12.2009)	23 DEC 2009
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: PABLO MELES
AKERMAN SENTERFITT
222 LAKEVIEW AVENUE, 4TH FLOOR
WEST PALM BEACH, FL 33402-3188

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	23 DEC 2009
Applicant's or agent's file reference 8382-3WO	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day month year)*	Priority date *(day month year)*
PCT/US 09/62792	30 October 2009 (30.10.2009)	04 November 2008 (04.11.2008)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04W 36/00 (2009.01)
USPC - 455/440

Applicant TELCOM VENTURES, LLC

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

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

2. **FURTHER ACTION**

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

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

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

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	11 December 2009 (11.12.2009)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2009)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 09/62792

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 09/62792

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

1. Statement

Novelty (N)	Claims	5, 12-14, 19	YES
	Claims	1-4, 6-11, 15-18, 20-26	NO
Inventive step (IS)	Claims	None.	YES
	Claims	1 - 26	NO
Industrial applicability (IA)	Claims	1 - 26	YES
	Claims	None.	NO

2. Citations and explanations:

Claims 1-4, 6-11, 15-18 and 20-24 lack novelty under PCT Article 33(2) as being anticipated by US 2004/0030601 A1 to Pond et al. (hereinafter 'Pond').

Regarding claim 1, Pond discloses a method comprising: detecting that a proximity criterion is satisfied between a first wireless communications device and an entity (see para [0083]); and enabling a mode of the first device and/or a mode of a second wireless communications device responsive to the detecting and responsive to at least one of a position, velocity and a Time-of-Day (see para [0083] -- 'reader/interrogator may also send a code to a register of MCU instructing phone to go to passive mode'); wherein the second device is not the entity and is not associated with the entity (see Fig 5A and para [0088] -- 'transaction starts 503 when mobile station with cover 104 is within the EM field created by interrogator 352 in kiosk 502'; see also para [0070]), and wherein the entity is not involved in providing a communications service to the first and/or second device (see Fig 14 and para [0131]).

Regarding claim 2, Pond discloses the method according to Claim 1. Pond further discloses wherein the detecting is 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 (see para [0083] -- 'EM field created by reader/interrogator').

Regarding claim 3, Pond discloses the method according to Claim 1. Pond further discloses wherein the enabling is 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 (see para [0083] -- 'reader/interrogator may also send a code to a register of MCU instructing phone to go to passive mode').

Regarding claim 4, Pond discloses the method according to Claim 1. Pond further discloses wherein detecting comprises: using position information associated with the first device (see para [0141] -- 'GPS may make for more accurate location-based services'); using position information associated with the second device (see para [0141] -- 'GPS may make for more accurate location-based services'); detecting a signal that is being radiated by the first device (see Fig 2B and para [0065] -- 'RFID transponder 110'); detecting a signal that is being radiated by the second device (see Fig 2B and para [0065] -- 'RFID transponder 110'); and/or detecting a signal that is being radiated by a device that is associated with the entity (see para [0083] -- 'passed inside an EM field created by reader/interrogator').

Regarding claim 6, Pond discloses the method according to Claim 1. Pond further discloses wherein the method performs a function responsive to the enabling and the function comprises a financial transaction, receiving data and/or transmitting data (see Fig 14 and para [0131] -- 'payment system 1400'; para [0135]).

Regarding claim 7, Pond discloses the method according to Claim 6. Pond further discloses wherein the first unit is associated with an Internet Protocol (IP) address and/or the second unit is associated with an IP address (see para [0130] -- 'TCP/IP network connection').

Regarding claim 8, Pond discloses the method according to Claim 6. Pond further discloses wherein 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 (see para [0034], [0101]).

Regarding claim 9, Pond discloses the method according to Claim 6. Pond further discloses wherein the financial transaction comprises providing payment associated with a toll and/or providing payment associated with a purchase of one or more items (see para 5A and para [0087]).

Regarding claim 10, Pond discloses the method according to Claim 6. Pond further discloses wherein receiving data comprises receiving data once or repeatedly and wherein transmitting data comprises transmitting data once or repeatedly (see para [0083] -- 'interrogator may transmit at a first frequency and the transponder may reply at a second frequency').

Regarding claim 11, Pond discloses the method according to Claim 1. Pond further discloses wherein the entity comprises 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 (see Fig 3, 7, 14 and para [0070], [0078], [0110], [0131]).

-- Continued on Supplemental Pages. --

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

V.2. Citations and explanations:

Regarding claim 15, Pond discloses a system comprising: a detector that is configured to enable a mode of a first wireless communications device and/or to enable a mode of a second wireless communications device responsive to a detection that a proximity criterion is satisfied between the first device and an entity and responsive to at least one of a position, velocity and a Time-of-Day (see para [0083] -- 'reader/interrogator may also send a code to a register of MCU instructing phone to go to passive mode'); wherein the second device is not the entity and is not associated with the entity (see Fig 5A and para [0088] -- 'transaction starts 503 when mobile station with cover 104 is within the EM field created by interrogator 352 in kiosk 502'; see also para [0070]), and wherein the entity is not involved in providing a communications service to the first and/or second device (see Fig 14 and para [0131]).

Regarding claim 16, Pond discloses the system according to Claim 15. Pond further discloses wherein the detection is 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 (see para [0083] -- 'EM field created by reader/interrogator').

Regarding claim 17, Pond discloses the system according to Claim 15. Pond further discloses wherein the mode is enabled 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 (see para [0083] -- 'reader/interrogator may also send a code to a register of MCU instructing phone to go to passive mode').

Regarding claim 18, Pond discloses the system according to Claim 15. Pond further discloses wherein the detection comprises: use of position information associated with the first device (see para [0141] -- 'GPS may make for more accurate location-based services'); use of position information associated with the second device (see para [0141] -- 'GPS may make for more accurate location-based services'); a detection of a signal that is being radiated by the first device (see Fig 2A and para [0065] -- 'RFID transponder 110'); a detection of a signal that is being radiated by the second device (see Fig 2A and para [0065] -- 'RFID transponder 110'); and/or a detection of a signal that is being radiated by a device that is associated with the entity (see para [0083] -- 'passed inside an EM field created by reader/interrogator').

Regarding claim 20, Pond discloses the system according to Claim 15. Pond further discloses wherein the first device and/or the second device is/are configured to perform a function responsive to the mode having been enabled by the detector (see Fig 14 and para [0131] -- 'payment system 1400'; para [0135]).

Regarding claim 21, Pond discloses the system according to Claim 20. Pond further discloses wherein the function comprises a financial transaction, reception of data and/or transmission of data (see Fig 14 and para [0131] -- 'payment system 1400'; para [0135]).

Regarding claim 22, Pond discloses the system according to Claim 21. Pond further discloses wherein 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 (see para [0034], [0101]).

Regarding claim 23, Pond discloses the system according to Claim 21. Pond further discloses wherein the financial transaction comprises a payment of a toll and/or a payment associated with a purchase of one or more items (see para 5A and para [0087]).

Regarding claim 24, Pond discloses the system according to Claim 15. Pond further discloses wherein the entity comprises 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 (see Fig 3, 7, 14 and para [0070], [0078], [0110], [0131]).

Claims 25 and 26 lack novelty under PCT Article 33(2) as being anticipated by US 2007/0167147 A1 to Krasner et al. (hereinafter 'Krasner').

Regarding claim 25, Krasner discloses a method comprising: detecting that a proximity criterion is satisfied between a first device and an entity (see Fig 1 and para [0051]); and 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 (see Fig 4 and para [0052], [0067]), wherein 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 (see Fig 1 and para [0043]); wherein 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 (see Fig 1 and para [0043]).

Regarding claim 26, Krasner discloses a system comprising: a mobile subscriber device (see Fig 1 and para [0041]); a detector coupled to the mobile subscriber device wherein the detector is configured to enable a function of the mobile subscriber device responsive to a detection that a proximity criterion is satisfied between the mobile subscriber device and an entity defined by a person, an animal, a building, a motor vehicle, a shopping cart, a product on sale, a check-out counter, a geographic position, a geographic area, or a geographic area or geographic position combined with a predetermined time frame (see Fig 1 and para [0051]), wherein the mobile subscriber device and a second mobile subscriber device form a part of a communication system providing communications service to the mobile subscriber device and the second mobile subscriber device (see Fig 1 and para [0043]); wherein the second mobile subscriber device is independent of the entity and wherein the entity is independent of the communications service provided to the mobile subscriber device and second mobile subscriber device (see Fig 1 and para [0043]).

-- Continued on next page. --

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 09/62792

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

V.2. Citations and explanations:

Claims 5, 12-14 and 19 lack an inventive step under PCT Article 33(3) as being obvious over Pond, in view of Krasner.

Regarding claim 5, Pond discloses the method according to Claim 4. Pond does not disclose wherein using position information comprises: 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. However, Krasner discloses wherein using position information comprises: evaluating a distance between the position information and one or more position values (see Fig 1, 2 and para [0051]-[0052]); and determining whether the distance is less than or equal to a threshold (see Fig 1, 2 and para [0051]-[0052]). It would have been obvious to one skilled in the art to combine the method of Pond with the predetermined range of Krasner, because Pond and Krasner are directed to system and method for mobile device proximity interaction (see abstracts). Furthermore, users benefit from methods that include predetermined range, because such methods facilitate 'using a mobile device enabled for short range proximity signaling' (see Krasner para [0032]).

Regarding claim 12, Pond discloses the method according to Claim 1. Pond does not disclose wherein enabling a mode comprises: selectively enabling a first communications mode comprising a first air interface protocol that uses a first set of frequencies to transmit/receive information based upon Orthogonal Frequency Division Multiplexing (OFDM) and/or Orthogonal Frequency Division Multiple Access (OFDMA). However, Krasner discloses wherein enabling a mode comprises: selectively enabling a first communications mode comprising a first air interface protocol that uses a first set of frequencies to transmit/receive information based upon Orthogonal Frequency Division Multiplexing (OFDM) and/or Orthogonal Frequency Division Multiple Access (OFDMA) (see Fig 1, 3 and para [0059], [0075], [0093]). It would have been obvious to one skilled in the art to combine the method of Pond with the multiple frequency transmission of Krasner, because Pond and Krasner are directed to system and method for mobile device proximity interaction (see abstracts). Furthermore, users benefit from methods that include multiple frequency transmission, because such methods facilitate 'transmit and receive calls and messages using radio frequencies in a radio communication network' (see Pond para [0056]).

Regarding claim 13, Pond and Krasner discloses the method according to Claim 12. Krasner further discloses wherein the first air interface protocol is further based upon Time Division Duplex (TDD) operation wherein the first set of frequencies are used to transmit information over a first time interval and are also used to receive information over a second time interval (see para [0075], [0093] -- 'Time Division Multiple Access').

Regarding claim 14, Pond and Krasner discloses the method according to Claim 12. Krasner further discloses wherein the first set of frequencies comprises licensed and/or un-licensed frequencies (see para [0053]).

Regarding claim 19, Pond discloses the system according to Claim 18. Pond does not disclose wherein 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. However, Krasner discloses wherein 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 (see Fig 1, 2 and para [0051]-[0052]); and determining whether the distance is less than or equal to a threshold (see Fig 1, 2 and para [0051]-[0052]). It would have been obvious to one skilled in the art to combine the method of Pond with the predetermined range of Krasner, because Pond and Krasner are directed to system and method for mobile device proximity interaction (see abstracts). Furthermore, users benefit from methods that include predetermined range, because such methods facilitate 'using a mobile device enabled for short range proximity signaling' (see Krasner para [0032]).

Claims 1 - 26 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Attorney Docket No. 9466-24TSCT2DV PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Karabinis et al.
Application No.: To Be Assigned
Filed: Concurrently Herewith
For: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Date: June 19, 2018

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

REMARKS ACCOMPANYING DIVISIONAL APPLICATION

The present divisional application is being filed for non-elected Claims 9-23 of parent Application No. 15/800,885 that were non-elected claims canceled in response to the Restriction Requirement of May 22, 2018. Claims 9-23 of the parent application have been renumbered herein as Claims 1-15, respectively.

The "Cross-Reference to Related Application" section has been amended to cite the parent application. The specification and drawings are otherwise unchanged from the parent application.

Favorable examination and allowance of the present application are respectfully requested.

Respectfully submitted,



Vernon H. Guthrie
Registration No. 63,798
Attorney for Applicant

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MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Cross-Reference to Related Application

[0001] The present application is a divisional of Application No. 15/800,885, filed November 1, 2017, which is itself a continuation of Application No. 15/251,882, filed August 30, 2016, which is itself a continuation of Application No. 12/264,711, filed November 4, 2008, entitled *"Mobile Device Mode Enablement Responsive to a Proximity Criterion"*, assigned to the assignee of the present invention, 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

[00010] 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.

[00011] 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.

[00012] 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.

[00013] 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."

[00014] 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.

[00015] 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.

[00016] 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.

[00017] 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.

[00018] 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.

[00019] 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.

[00020] 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.

[00021] **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.

[00022] 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.

[00023] 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.

[00024] 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.

[00025] 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.

[00026] **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.

[00027] 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.

[00028] 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.

[00029] 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.

[00030] 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.

[00031] 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.

[00032] 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.

[00033] **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.

[00034] 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.

[00035] 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.

[00036] 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.

[00037] **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.

[00038] 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.

[00039] 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.

[00040] 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.

[00041] 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.

[00042] 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.

[00043] 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.

[00044] 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.

[00045] 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.

[00046] 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.

[00047] 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.

[00048] 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.

[00049] 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.

[00050] 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.

[00051] 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.

[00052] 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.

[00053] 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.

[00054] 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.

[00055] 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.

[00056] 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.

PTO/AIA/15 (10-17)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	9466-24TSCT2DV
First Named Inventor	Peter D. Karabinis
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERIO
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. ☑ **Applicant asserts small entity status.** See 37 CFR 1.27
3. ☐ **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. ☑ **Specification** [*Total Pages* 23] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. ☑ **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 3]
6. **Inventor's Oath or Declaration** [*Total Pages* 2] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. ☐ Newly executed (original or copy)
   b. ☑ A copy from a prior application (37 CFR 1.63(d))
7. ☑ **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   ☐ Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. ☐ Computer Readable Form (CRF)
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      i. ☐ CD-ROM or CD-R (2 copies); or
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ACCOMPANYING APPLICATION PAPERS

10. ☐ **Assignment Papers** (cover sheet & document(s)) Name of Assignee _____
11. ☐ **37 CFR 3.73(c) Statement** (*when there is an assignee*) ☑ **Power of Attorney**
12. ☐ **English Translation Document** (*if applicable*)
13. ☑ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☑ Copies of citations attached
14. ☐ **Preliminary Amendment**
15. ☐ **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. ☐ **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. ☐ **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. ☑ **Other:** REMARKS ACCOMPANYING DIVISIONAL APPLICATION

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

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Name (Print/Type)	Vernon H. Guthrie	Registration No. (Attorney/Agent)	63,798

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Vernon H. Guthrie Jr./Meredith Downing
Attorney Docket Number:	9466-24TSCT2DV
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		785

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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
16/012,513	06/19/2018	2676	785	9466-24TSCT2DV	15	2

CONFIRMATION NO. 1019

FILING RECEIPT

20792
MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

OC000000100845458

Date Mailed: 07/11/2018

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

Inventor(s)

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 20792

Domestic Priority data as claimed by applicant

This application is a DIV of 15/800,885 11/01/2017
which is a CON of 15/251,882 08/30/2016 PAT 9832708
which is a CON of 12/264,711 11/04/2008 PAT 9462411

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 07/09/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/012,513**

Projected Publication Date: 10/18/2018

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Preliminary Class

358

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.

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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: 16/012,513

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	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	15 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	785		TOTAL	

APPLICATION AS AMENDED - PART II

		(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($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	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	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	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.

Notice of References Cited	Application/Control No. 16/012,513	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 MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7780081-B1	08-2010	Liang; Robert C.	G06Q30/0633	235/383
*	B	US-20040143505-A1	07-2004	Kovach, Aram	G06Q10/087	705/23
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929		2003-07-22	STIVORIC JOHN M; et al.	
	2	6769607		2004-08-03	PITRODA SATYAN G; et al.	
	3	6957107		2005-10-18	ROGERS BOBBY E; et al.	
	4	7028897		2006-04-18	FERNANDES JORGE M; et al.	
	5	7133659		2006-11-07	ZALEWSKI THOMAS W; et al.	
	6	7155199		2006-12-26	ZALEWSKI THOMAS W; et al.	
	7	RE 39736		2007-07-17	MORRILL, JR.	
	8	7539241		2009-05-26	DICK CHRISTOPHER H	

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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	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	9	7822644		2010-10-26	ALBERTH JR WILLIAM P; et al.	
	10	7912629		2011-03-22	SUTTER DAVID WILLIAM; et al.	
	11	8023580		2011-09-20	BREMER GORDON F	
	12	8463238		2013-06-11	FORSTALL SCOTT; et al.	
	13	8532069		2013-09-10	BALWANI RAMESH	
	14	8646060		2014-02-04	BEN AYED MOURAD	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030220105		2003-11-27	DAIGREMONT JOHANN; et al.	
	2	20040030601		2004-02-12	POND RUSSELL L; et al.	
	3	20040170430		2004-09-02	GOROKHOV ALEXEI	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	4	20060009234		2006-01-12	FREER CARL J	
	5	20060133633		2006-06-22	HYVONEN LASSI; et al.	
	6	20060145893		2006-07-06	HASSETT JOHN J	
	7	20060159260		2006-07-20	PEREIRA LUIS R; et al.	
	8	20060172700		2006-08-03	WU PETER	
	9	20060194538		2006-08-31	PALIN ARTO; et al.	
	10	20070167147		2007-07-19	KRASNER NORMAN F; et al.	
	11	20070178935		2007-08-02	SHIM CHUNG SEOB; et al.	
	12	20070184837		2007-08-09	HOHL FRITZ; et al.	
	13	20070197261		2007-08-23	HUMBEL ROGER M	
	14	20070243872		2007-10-18	GALLAGHER MICHAEL D; et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	15	20070250393		2007-10-25	ALBERTH JR WILLIAM P; et al.	
	16	20070265984		2007-11-15	SANTHANA PRAKASH	
	17	20070285280		2007-12-13	ROBINSON BENJAMIN P; et al.	
	18	20080040274		2008-02-14	UZO CHIJIOKE CHUKWUEMEKA	
	19	20080140868		2008-06-12	KALAYJIAN NICHOLAS; et al.	
	20	20080146148		2008-06-19	HULVEY ROBERT WILLIA	
	21	20080167966		2008-07-10	RAMSDALE DAVID; et al.	
	22	20080200166		2008-08-21	MCCAMON MICHAEL G	
	23	20080227471		2008-09-18	DANKAR AJAY; et al.	
	24	20080306868		2008-12-11	ROBINSON BENJAMIN P; et al.	
	25	20090023474		2009-01-22	LUO XUN; et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

	26	20090113543		2009-04-30	ADAMS NEIL P; et al.	
	27	20090153367		2009-06-18	LEE YONG WHI	
	28	20090169070		2009-07-02	FADELL ANTHONY	
	29	20090213947		2009-08-27	RAO RAGHAVENDAR M; et al.	
	30	20100067591		2010-03-18	LUO TAO; et al.	
	31	20100265845		2010-10-21	LAMPEN PATRIK	
	32	20110314539		2011-12-22	HORTON MICHAEL	
	33	20120214443		2012-08-23	DAIGLE MARK R	
	34	20130156218		2013-06-20	ANNACONE WILLIAM R; et al.	

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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]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
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	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

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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	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	

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EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	07/30/2018

*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/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT2DV

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	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2018-06-19
Name/Print	Vernon H. Guthrie	Registration Number	63798

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 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.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

Bibliographic Data

Application No: 16/012,513

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 RESPONSIVE TO A PROXIMITY CRITERION

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/19/2018	455	2641	9466-24TSCT2DV
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 DIV of 15800885 11/01/2017

15800885 is a CON of 15251882 08/30/2016 PAT 9832708

15251882 is a CON of 12264711 11/04/2008 PAT 9462411

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/09/2018

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

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UNITED STATES

FILING FEE RECEIVED

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	9466-24TSCT2DV	1019

20792 7590 07/31/2018

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RALEIGH, NORTH CAROLINA 27627
UNITED STATES OF AMERICA

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

MAIL DATE	DELIVERY MODE
07/31/2018	PAPER

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.

Office Action Summary	**Application No.** 16/012,513	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA 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 06/19/2018.

☐ 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) 1-15 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) 1-15 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 06/19/2018 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

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 06/19/2018 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

2. The drawings were received on 06/19/2018. These drawings are considered by examiner.

Claim Rejections - 35 USC § 103

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

4. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-15 are rejected under 35 U.S.C. 103 as being unpatentable over Liang (US 7,780,081), hereinafter "Liang", in vies of Kovach (US 2004/0143505), hereinafter "Kovach".

Regarding **claim 1,** Liang teaches a method comprising:

detecting by a sensor that an item has been displaced in a store; and

establishing a communications link with an electronic device of a customer associated with the item (Abstract),

in response to said detecting, providing for display on said electronic device a price associated with the item (col. 8, line 39 to col. 10, line 20).

Liang does not explicitly teach an item has been displaced in a store.

Kovach, in the same field of endeavor, teaches an item has been displaced in a store (pars [0026-0030] teach the missing merchandise in the store reads on an item has been displaced).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Liang to Kovach, in order to provide the tracking and disposition of merchandise within a retail store environment for convenient and minimize the item/stock losses due to theft (as suggested by Kovach in paragraphs [0002-0006]).

Regarding **claims 2 and 10,** the combination of Liang and Kovach teach the method of Claims 1, 9, Liang does not clearly teach wherein said detecting by a sensor that an item has been displaced comprises: detecting that the item has been placed in a conveyance apparatus.

Kovach, in the same field of endeavor, teaches wherein said detecting by a sensor that an item has been displaced comprises: detecting that the item has been placed in a conveyance apparatus (pars [0026-0030]).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Liang to Kovach, in order to provide the tracking and disposition of merchandise within a retail store environment for convenient and minimize the item/stock losses due to theft (as suggested by Kovach in paragraphs [0002-0006]).

Regarding **claim 3,** the combination of Liang and Kovach teach the method of Claim 2, Liang further teaches wherein said conveyance apparatus comprises a shopping cart (col. 2, lines 29-65 teaches a shopping cart).

Regarding **claim 4,** the combination of Liang and Kovach teach the method of Claim 3, Liang further teaches wherein said detecting is performed by the shopping cart (col. 2, lines 29-65 teaches a shopping cart).

Regarding **claims 5 and 11,** the combination of Liang and Kovach teach the method of Claims 1, 9, Liang further teaches comprising: charging an account associated with said electronic device for the item that has been displaced (col. 9, line 47 to col. 10, line 63).

Regarding **claims 6 and 12,** the combination of Liang and Kovach teach the method of Claims 5, 11, Liang further teaches wherein said charging an account associated with said electronic device is enabled when said electronic device is proximate to a specific location of said store (col. 8, line 39 to col. 10, line 63).

Regarding **claims 7 and 13,** the combination of Liang and Kovach teach the method of Claims 1, 9, Liang further teaches wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology (col. 8, line 39 to col. 10, line 63).

Regarding **claims 8 and 14,** the combination of Liang and Kovach teach the method of Claims 1, 9, Liang further teaches wherein said detecting comprises detecting that the item has been displaced from a shelf of said store (col. 8, line 39 to col. 10, line 63), and wherein the method further comprises: further detecting by the sensor that the item that had been displaced has been restored on the shelf of said store and ceasing from displaying on said electronic device said price associated with the item (col. 8, line 39 to col. 10, line 63).

Regarding **claim 15,** the combination of Liang and Kovach teach the system of Claim 9, Liang further teaches wherein said operations further comprise: in response to said detecting, providing for display on said electronic device a manufacturer associated with the item (col. 7, line 19 to col. 8, line 67).

Regarding to **claim 9**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Conclusion

6. 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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

✓	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								
Final	Original	07/30/2018								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 72/02	07/30/2018	MTV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W4/021 OR H04W4/043 OR H04B1/713	07/30/2018	MTV

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 Karabinis	07/30/2018	MTV
Assignee: Telcom Ventures	07/30/2018	MTV
Double Patent Checked	07/30/2018	MTV
EAST Searched System	07/30/2018	MTV

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:14
S2	55	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:16
S3	0	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store and (RFID tagg$3 barcode bar-code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:17
S4	1033	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:19
S5	8	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same shopping near5 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:22
S6	10	(detect$3 determin$4) same (RFID tagg$3) same (miss$3 displac$3) same (shopping adj3 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:27
S7	97	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same (warehouse store building)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:40
S8	5	S7 AND ((H04W4/021 OR	US-PGPUB;	OR	OFF	2018/07/30

		H04W4/043).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:45
S9	50	S7 AND ((G06F12/1027 OR G06F12/1054 OR G06F17/30132 OR G06F2212/682 OR G06F17/30174 OR G06F17/30575 OR G06F17/30017 OR G06F17/30067 OR G06F17/30215 OR G06F21/50 OR G06F21/88 OR G06F2221/2101 OR G06F2221/2111 OR G06F19/00 OR G06F12/0842 OR G06F12/0864 OR G06F12/121 OR G06F9/30043 OR G06F9/3824 OR G06F12/0804 OR G06F12/082 OR G06F12/0831 OR G06F17/30011 OR G06F17/30023 OR G06F17/30115 OR G06F17/30165 OR G06F17/30233 OR G06F17/30345 OR G06F17/30625 OR G06F17/30631 OR G06F2212/1016 OR G06F2212/604 OR G06F3/14 OR G06F12/0848 OR G06F12/0862 OR G06F12/0866 OR G06F12/0875 OR G06F12/0895 OR G06F12/10 OR G06F12/1018 OR G06F12/12 OR G06F12/1408 OR G06F17/3002 OR G06F17/30035 OR G06F17/30389 OR G06F17/30424 OR G06F17/30442 OR G06F17/30451 OR G06F17/30457 OR G06F17/30477 OR G06F17/30483 OR G06F17/30498 OR G06F17/30516 OR G06F17/30548 OR G06F17/30551 OR G06F17/30554 OR G06F17/30557 OR G06F17/30578 OR G06F17/30616 OR G06F17/30864 OR G06F17/30958 OR G06F19/3418 OR G06F19/3456 OR G06F2212/1021 OR G06F2212/1024 OR G06F2212/1052 OR G06F2212/6026 OR G06F2212/608 OR G06F3/0482 OR G06F3/04842 OR G06F3/0619 OR G06F3/0644 OR G06F3/0652 OR G06F3/0665 OR G06F3/0689 OR H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S10	9	S7 AND ((H04W4/021 OR H04W4/043 OR H04B1/713).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S11	50	S7 AND ((G06Q10/087 OR G06Q30/06 OR G06Q10/08 OR G06Q40/02 OR G06Q20/202 OR G06Q20/208 OR G06Q30/0601 OR G06Q20/042 OR G06Q50/22 OR G06Q50/24 OR G06Q30/0611 OR G06Q10/10 OR G06Q30/0207 OR G06Q30/0621 OR G06Q30/0641 OR G06Q40/12 OR G06Q10/083 OR G06Q20/10 OR G06Q30/01 OR G06Q30/0203 OR G06Q30/0223 OR G06Q30/0239 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46

		G06Q30/0251 OR G06Q30/0255 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0623 OR G06Q50/01).CPC.)				
S12	14	S7 AND ((H04L67/1095 OR H04L47/196 OR H04L61/1582 OR H04L67/06 OR H04L67/10 OR H04L67/1023 OR H04L67/104 OR H04L67/108 OR H04L67/1097 OR H04L67/2842 OR H04L25/0226 OR H04L67/02 OR H04L67/2852).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S13	2	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	USPAT	OR	OFF	2018/07/30 14:08
S14	5	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 14:09

7/ 30/ 2018 4:32:00 PM
C:\ Users\ mvu1\ Documents\ EAST\ Workspaces\ 16012513_Shopping_Cart.wsp

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/012,513	06/19/2018	Peter D. Karabinis	9466-24TSCT2DV

CONFIRMATION NO. 1019

20792
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RALEIGH, NC 27627

PUBLICATION NOTICE



Title:MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Publication No.US-2018-0302840-A1
Publication Date:10/18/2018

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

Attorney Docket No. 9466-24TSCT2DV PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Karabinis et al. Confirmation No.: 1019
Application No.: 16/012,513 Group Art Unit: 2641
Filed: June 19, 2018 Examiner: Michael T. Vu
For: ***MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION***

Date: October 25, 2018

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

AMENDMENT

Applicant provides the present Amendment to address the issues raised in the Office Action mailed July 31, 2018.

It is not believed that an extension of time and/or additional fee(s), including fees for additional claims, are required, beyond those that may otherwise be provided for in documents accompanying this paper. In the event, however, that an extension of time is necessary to allow consideration of this paper, such an extension is hereby petitioned under 37 C.F.R. §1.136(a). Any additional fees believed to be due in connection with this paper may be charged to our Deposit Account No. 50-0220.

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of the Claims:

1. (Currently Amended) A method comprising:

detecting by a sensor that an item has been displaced in a store; and

establishing a communications link between a shopping cart and a smartphone ~~with an electronic device~~ of a customer associated with the item and, in response to said detecting, providing at the smartphone via the communications link ~~for display on said electronic device~~ a price associated with the item.

2. (Currently Amended) The method of Claim 1, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in the shopping cart ~~a conveyance apparatus~~.

3. (Canceled)

4. (Currently Amended) The method of Claim 2 [[3]], wherein said detecting is performed by the shopping cart.

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

charging an account associated with the smartphone ~~said electronic device~~ for the item that has been displaced.

6. (Currently Amended) The method of Claim 5, wherein said charging an account associated with the smartphone ~~said electronic device~~ is enabled when the smartphone ~~said electronic device~~ is proximate [[to]] a specific location within the ~~of said~~ store.

7. (Original) The method of Claim 1, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

8. (Currently Amended) The method of Claim 1,

wherein said detecting comprises detecting that the item has been displaced from a shelf of the ~~said~~ store, and

wherein the method further comprises:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the ~~said~~ store and providing at the smartphone via the communications link a command to delete or change information ~~ceasing from displaying on said electronic device said price~~ associated with the item.

9. (Currently Amended) A system that is configured to perform operations comprising:

detecting by a sensor that an item has been displaced from a shelf of a store; and

establishing a communications link between a shopping cart and a smartphone ~~with an electronic device~~ of a customer associated with the item and, in response to said detecting, providing at the smartphone via the communications link ~~for display on said electronic device~~ a price associated with the item.

10. (Currently Amended) The system of Claim 9, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in the shopping cart ~~a conveyance apparatus~~.

11. (Currently Amended) The system of Claim 9, wherein said operations further comprise:

charging an account associated with the smartphone ~~said electronic device~~ for the item that has been displaced.

12. (Currently Amended) The system of Claim 11, wherein said charging an account associated with the smartphone ~~said electronic device~~ is enabled when the smartphone ~~said electronic device~~ is proximate [[to]] a specific location within the ~~of said~~ store.

13. (Original) The system of Claim 9, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

14. (Currently Amended) The system of Claim 9, wherein said operations further comprise:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the ~~said~~ store and providing at the smartphone via the communications link a command to delete or change information ~~ceasing from displaying on said electronic device said price~~ associated with the item.

15. (Currently Amended) The system of Claim 9, wherein said detecting comprises ~~operations further comprise~~:

~~in response to said~~ detecting~~, providing for display on said electronic device~~ a manufacturer associated with the item.

16. (New) The method of Claim 1, further comprising:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

17. (New) The method of Claim 16, wherein the location within the store comprises a check-out location.

18. (New) The method of Claim 1, wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

19. (New) The system of Claim 9, wherein said operations further comprise:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

20. (New) The system of Claim 19, wherein the location within the store comprises a check-out location.

21. (New) The system of Claim 9, wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

22. (New) A method comprising:

establishing a communications link with a smartphone of a customer in a store;

detecting by a sensor that an item has been displaced in the store; and

providing at the smartphone via the communications link a price associated with the item, in response to said detecting.

23. (New) The method of Claim 22, further comprising:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

24. (New) The method of Claim 23,

wherein the location within the store comprises a check-out location,

wherein said establishing a communications link with a smartphone comprises establishing the communications link between the smartphone and a shopping cart, and

wherein said detecting is performed by the shopping cart and comprises detecting that the item has been placed in the shopping cart.

25. (New) A system that is configured to perform operations comprising:

establishing a communications link with a smartphone of a customer in a store;

detecting by a sensor that an item has been displaced in the store; and

providing at the smartphone via the communications link a price associated with the item, in response to said detecting.

26. (New) The system of Claim 25, wherein said operations further comprise:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

27. (New) The system of Claim 26,

wherein the location within the store comprises a check-out location,

wherein said establishing a communications link with a smartphone comprises establishing the communications link between the smartphone and a shopping cart, and

wherein said detecting is performed by the shopping cart and comprises detecting that the item has been placed in the shopping cart.

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Karabinis, Peter D.
	Art Unit	2641
	Examiner Name	Michael T. Vu
	Attorney Docket Number	9466-24TSCT2DV

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	1	20070129077		2007-06-07	IGUCHI MASAYUKI; et al.	
	2	20070260710		2007-11-08	DOWLING ERIC MORGAN	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
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	Art Unit	2641
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Karabinis, Peter D.
	Art Unit	2641
	Examiner Name	Michael T. Vu
	Attorney Docket Number	9466-24TSCT2DV

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	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2018-10-25
Name/Print	Vernon H. Guthrie	Registration Number	63798

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EFS ID:	34116904
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Filer Authorized By:	Vernon H. Guthrie Jr.
Attorney Docket Number:	9466-24TSCT2DV
Receipt Date:	25-OCT-2018
Filing Date:	19-JUN-2018
Time Stamp:	15:34:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment Type	CARD
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	9466-24TSCT2DV_IDS.pdf	1053391 28ab397f053f698aed436ed34d1aea6c56d1c67e	no	4
Warnings:					
Information:					
2		9466-24TSCT2DV_Amendment.pdf	944258 d5660e3bf01989bd049d12682f34a6a09d97d25b	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Arguments/Remarks Made in an Amendment	7	11
	Claims	2	6
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1

Warnings:					
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3	Fee Worksheet (SB06)	fee-info.pdf	33728 d2105be31a34a461b0c3dae963fcd40f0cfca0af	no	2
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REMARKS

Applicant appreciates the examination of the present application evidenced by the Office Action of July 31, 2018 ("Office Action"). In response, Applicant has amended independent Claims 1 and 9, and dependent Claims 2, 4-6, 8, 10-12, 14, and 15, has canceled dependent Claim 3, and has added new Claims 16-27. These amendments are supported by, for example, paragraphs [0014] and [0033]-[0036] of the present application. For at least the following reasons, Applicant submits that the present application is in condition for allowance, and a Notice of Allowance is respectfully requested in due course.

Amended Independent Claims 1 And 9 Are Patentable

Independent Claims 1 and 9 stand rejected under 35 U.S.C. 103 over U.S. Patent No. 7,780,081 to Liang ("Liang") in view of U.S. Pub. No. 2004/0143505 to Kovach ("Kovach"). (*See* Office Action, pages 3 and 6.) Applicant submits, however, that amended independent Claims 1 and 9 are patentable for at least the following reasons.

First, Applicant has amended independent Claims 1 and 9 to recite "establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting [that the item has been displaced in a store], providing at the smartphone via the communications link a price associated with the item." As an example, the present application describes that "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." (Present Application, paragraph [0034].)

In contrast with "establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting [that the item has been displaced in a store], providing at the smartphone via the communications link a price associated with the item," as recited in amended independent Claims 1 and 9, Liang discusses communicating between (a) a shopping cart computer (or a shelf or pallet) and (b) a

store computer that "contains product information on every item in the store." (*See* Liang, col. 3, lines 46-60 and col. 8, lines 48-52.) In one embodiment, FIG. 3 (provided below) of Liang illustrates a shopping cart 10 that has a cart computer 22 that communicates with a store computer 30.

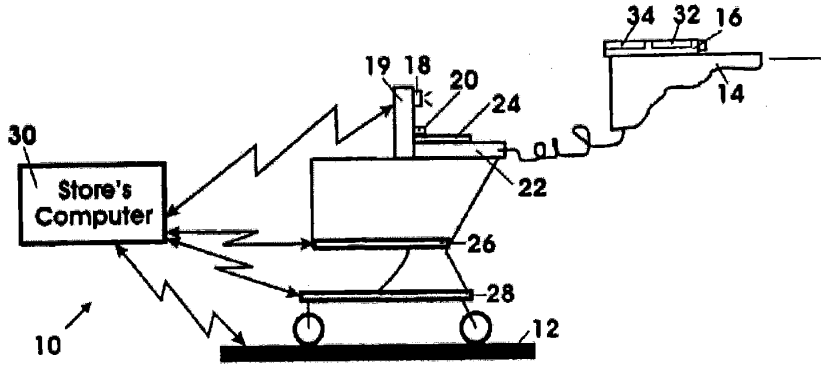


FIG.3

In another embodiment, FIG. 6A (provided below) of Liang illustrates a shelf 602 and a pallet 603 that can communicate with a store computer by a hardwire connection 608 or a wireless interface 610. (*See* Liang, col. 8, lines 48-52.)

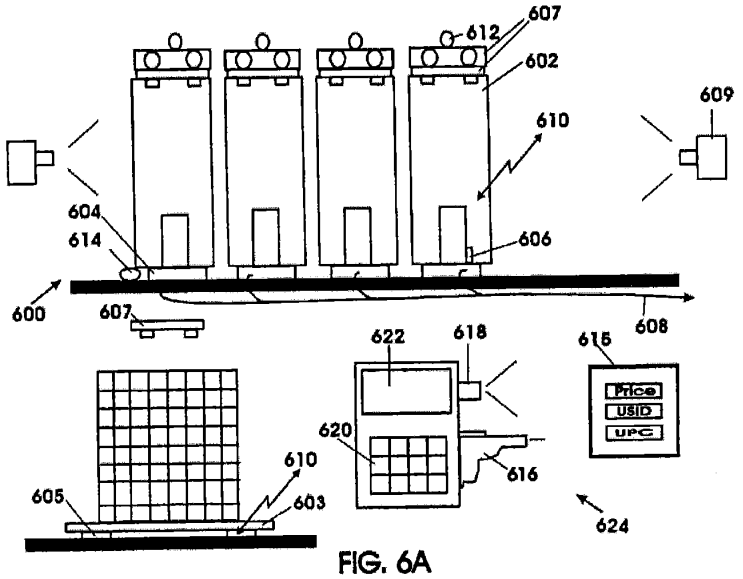


FIG. 6A

Applicant submits that communicating between the **shelf 602/pallet 603 and a store computer** does **not** disclose or suggest communicating between a **shopping cart and a smartphone of a customer**. **Nor** does communicating between the cart computer 22 of the shopping cart 10 and the **store computer 30** disclose or suggest communicating between a shopping cart and a **smartphone of a customer**. For at least these reasons, Liang does not disclose or suggest "establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting [that the item has been displaced in a store], providing at the smartphone via the communications link a price associated with the item," as recited in amended independent Claims 1 and 9.

Moreover, the Office Action relies on the secondary reference, Kovach, for its discussion of missing inventory in a store, which does not disclose or suggest "establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting [that the item has been displaced in a store], providing at the smartphone via the communications link a price associated with the item," as recited in amended independent Claims 1 and 9. (*See* Office Action, page 3.)

For at least these reasons, amended independent Claims 1 and 9 are patentable over Liang in view of Kovach.

Second, the Office Action's combination of Liang and Kovach would not have been obvious. For example, the Office Action appears to rely on Kovach's discussion of identifying stolen merchandise as teaching "detecting by a sensor that an item has been displaced in a store," as recited in amended independent Claims 1 and 9. (*See* Office Action, page 3; and Kovach, paragraphs [0026]-[0030].) Amended independent Claims 1 and 9 further recite, however, "in response to said detecting [that the item has been displaced in a store], providing at the smartphone via the communications link a price associated with the item."

Applicant submits that it would **not** have been **obvious** to identify stolen merchandise, as discussed in Kovach, and to responsively **provide a price of Kovach's stolen merchandise at a smartphone of the customer via a communications link between the smartphone and a shopping cart**. If the customer is sufficiently brazen to steal the merchandise, then that thieving customer would not be interested in being responsively provided with the price of the merchandise at the thieving customer's smartphone. Also, the thieving customer would not be

likely to maintain a communications link with the shopping cart upon detection of the theft, as doing so would appear to hinder the thieving customer's getaway from the store. Accordingly, the Office Action's combination of Liang and Kovach would not have been obvious. For at least this additional reason, amended independent Claims 1 and 9 are patentable over Liang in view of Kovach.

New Independent Claims 22 And 25 Are Patentable

New independent Claims 22 and 25 recite "providing at the smartphone via the communications link [established in a store] a price associated with the item, in response to said detecting [by a sensor that the item has been displaced in the store]." Applicant submits that new independent Claims 22 and 25 are patentable for at least the reason that it would **not** have been **obvious** to identify stolen merchandise, as discussed in Kovach, and to responsively **provide a price of Kovach's stolen merchandise at a smartphone of the customer**. If the customer is sufficiently brazen to steal the merchandise, then that thieving customer would not be interested in being responsively provided with the price of the merchandise at the thieving customer's smartphone. Also, the thieving customer would not be likely, upon detection of the theft, to maintain a communications link that was established in the store, as doing so would appear to hinder the thieving customer's getaway from the store. New independent Claims 22 and 25 are therefore non-obvious in view of Kovach for at least these reasons.

The Dependent Claims Are Patentable

The dependent claims are patentable at least per the patentability of the independent claims from which they depend. Moreover, some of the dependent claims include separate bases for patentability.

For example, new Claims 16, 19, 23, and 26 recite "enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store." Although Liang discusses an "alternative example" in which "payment can be made using the customer's own cell phone," the mere acceptance of **payment by the customer's cell phone** does **not** disclose or suggest **enabling a pay function** of that cell phone **"in response to detecting a short-range signal transmitted from a location within the store,"** as recited in

Claims 16, 19, 23, and 26 (*emphasis added*). (*See* Liang, col. 9, lines 48-50.) For at least this reason, Claims 16, 19, 23, and 26 are separately patentable.

As each of the remaining dependent claims depends from a base claim that is believed to be in condition for allowance, Applicant does not believe that it is necessary to argue the allowability of each of these claims individually. Applicant does not necessarily concur with the interpretation of these claims, or with the bases for rejection set forth in the Office Action. Applicant therefore reserves the right to address the patentability of these claims individually as necessary in the future.

CONCLUSION

Applicant has amended the claims herein for the purpose of advancing the present application to allowance and reserves the right to argue the patentability of the claims as originally filed in one or more future applications. Accordingly, Applicant submits that all pending claims in the present application are in condition for allowance, and a Notice of Allowance is respectfully requested in due course. The Examiner is encouraged to contact the undersigned representative by telephone should any additional issues need to be addressed.

Respectfully submitted,



Vernon H. Guthrie
Registration No. 63,798
Attorney for Applicant

Customer Number 20792
Myers Bigel, P.A.
P.O. Box 37428, Raleigh, NC 27627
919-854-1400
919-854-1401 (Fax)

Electronic Patent Application Fee Transmittal

Application Number:	16012513
Filing Date:	19-Jun-2018
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Attorney Docket Number:	9466-24TSCT2DV

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	6	50	300
INDEPENDENT CLAIMS IN EXCESS OF 3	2201	1	230	230
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**650**

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/012,513	Filing Date 06/19/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ 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

AMENDMENT	10/25/2018	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 26	Minus	** 20	= 6		x $50 =	300
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x $230 =	230
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	530

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) 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	

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** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ARLENE B JONES/
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Notice of References Cited	Application/Control No. 16/012,513	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 MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060085297-A1	04-2006	Minerley; Kevin G.	G06Q10/087	705/28
	B					
	C					
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16012513
Filing Date	2018-06-19
First Named Inventor	Karabinis, Peter D.
Art Unit	2641
Examiner Name	Michael T. Vu
Attorney Docket Number	9466-24TSCT2DV

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070129077		2007-06-07	IGUCHI MASAYUKI; et al.	
	2	20070260710		2007-11-08	DOWLING ERIC MORGAN	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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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		

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EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	12/10/2018

*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/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Karabinis, Peter D.
	Art Unit	2641
	Examiner Name	Michael T. Vu
	Attorney Docket Number	9466-24TSCT2DV

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	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2018-10-25
Name/Print	Vernon H. Guthrie	Registration Number	63798

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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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.
16/012,513	06/19/2018	Peter D. Karabinis	9466-24TSCT2DV	1019

20792 7590 12/11/2018

MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

EXAMINER
VU, MICHAEL T

ART UNIT	PAPER NUMBER
2641	

MAIL DATE	DELIVERY MODE
12/11/2018	PAPER

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.

Office Action Summary	**Application No.** 16/012,513	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA 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 10/25/2018.

☐ 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) 1-2 and 4-15 is/are pending in the application.

5a) Of the above claim(s) 16-27 is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-2 and 4-15 is/are rejected.

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

9) ☑ Claim(s) 16-27 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 is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/25/2018 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Arguments

3. Applicant's arguments with respect to claims 1-2, 4-15 have been considered but are moot in view of the new ground(s) of rejection.

4. Applicant amended claims 1-2, 4-6, 8-12, and 14-15.

5. Applicant canceled claim 3.

6. Applicant newly added claims 16-27.

Election/Restrictions

7. This application contains claims directed to the following patentably distinct species of the claimed invention:

Newly claims 16-27 are restricted that directed to 2 species which identified as below.

Species 1 – claims 1-2, 4-15 directed to detecting by a sensor that an item has been displaced in a store; and establishing a communications link between a shopping cart and a smartphone as recited in the amended claims.

Species 2 – claims 16-27 directed to establishing a communications link with a smartphone of a customer in a store; and enabling a pay function as recited in the added claims.

8. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

9. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

10. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

11. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species 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.

12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

14. Claims 1-2, 4-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liang (US 7,780,081), hereinafter “Liang”, in view of Minerley (US 2006/0085297), hereinafter “MInerley”,.

Regarding **claim 1,** Liang teaches a method comprising:

detecting by a sensor that an item has been displaced in a store (Liang, col. 2, line 28 to col. 3, line 40 teach detect a purchase of product/item reads on an item has been displaced that send through the wireless RFID technologies); and

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting, providing at the smartphone via the communications link a price associated with the item (col. 3, line 9 to col. 4, line 57, and col. 7, lines 19-26 teach the checkout process that used mobile platform such as a mobile phone, Liang further teaches the payment can be made using the customer's own cell phone or PDA or similar wireless device).

Liang does not explicitly teach executing, establishing a communications link between a shopping cart and a smartphone.

Minerley, in the same field of endeavor, teaches establishing a communications link between a shopping cart and a smartphone (pars [0023] [0041] teach the interaction or interfacing the communications link between the shopping cart and the cell phone).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Liang to Minerley, in order to provide the tracking and controlling the inventories need to be monitored to the end-user and/or customer for conveniently (as suggested by Minerley in paragraphs [0002-0005]).

Regarding **claims 2 and 10,** the combination of Liang and Minerley teach the method of Claims 1, 9, Liang further teaches wherein said detecting by a sensor that an

item has been displaced comprises: detecting that the item has been placed the shopping cart (col. 2, lines 29-67 teach the shopping cart).

Regarding **claim 4,** the combination of Liang and Minerley teach the method of Claim 2, Liang further teaches wherein said detecting is performed by the shopping cart (col. 2, lines 29-65 teaches a shopping cart transacting a purchase).

Regarding **claims 5 and 11,** the combination of Liang and Minerley teach the method of Claims 1, 9, Liang further teaches comprising: charging an account associated with the smartphone for the item that has been displaced item (col. 3, line 9 to col. 4, line 57, and col. 7, lines 19-26 teach the checkout process that used mobile platform such as a mobile phone).

Regarding **claims 6 and 12,** the combination of Liang and Minerley teach the method of Claims 5, 11, Liang further teaches wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store (Abstract teach the shopping cart (col. 9, lines 38-53 teach payment can be made using the customer's own cell phone or PDA or similar wireless device).

Regarding **claims 7 and 13,** the combination of Liang and Minerley teach the method of Claims 1, 9, Liang further teaches wherein said detecting comprises using a

Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology (col. 8, line 39 to col. 10, line 63).

Regarding **claims 8 and 14,** the combination of Liang and Minerley teach the method of Claims 1, 9, Liang further teaches wherein said detecting comprises detecting that the item has been displaced from a shelf of the store (col. 8, line 39 to col. 10, line 63), and wherein the method further comprises: further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone via the communications link a command to delete or change information associated with the item (col. 8, line 39 to col. 10, line 63).

Regarding **claim 15,** the combination of Liang and Minerley teach the system of Claim 9, Liang further teaches wherein said detecting comprises: detecting, a manufacturer associated with the item (col. 7, line 19 to col. 8, line 67).

Regarding to **claim 9**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

✓	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								
Final	Original	12/10/2018	12/10/2018	12/10/2018						
	1	✓	26	÷						
	2	✓	27	÷						
	3	-								
	4	✓								
	5	✓								
	6	✓								
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 72/02	12/10/2018	MTV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W4/021 OR H04W4/043 OR H04B1/713	12/10/2018	MTV

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 Karabinis	12/10/2018	MTV
Assignee: Telcom Ventures	12/10/2018	MTV
Double Patent Checked	12/10/2018	MTV
EAST Searched System	12/10/2018	MTV

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	6	"20060085297"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:54
L7	22452	(mobile phone cellular iphone) near4 pay$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
L8	1065	(mobile phone cellular iphone) near4 pay$3 same shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
L9	422	(mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
L10	10	(detect$3 sens$3) near10 (mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:57
L11	35	(mobile phone cellular iphone) near4 pay$3 near9 shop$4 near2 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:58
L12	5080	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) same shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
L13	2484	(mobile phone cellular iphone pda) near9	US-PGPUB;	OR	OFF	2018/12/10

		(pay$3 purchas$3) near9 shopping	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:00
L14	3575	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:01
L15	220	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item same (shop$4 adj cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:02
S1	0	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:14
S2	55	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:16
S3	0	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store and (RFID tagg$3 barcode bar-code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:17
S4	1033	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:19
S5	8	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same shopping near5 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:22
S6	10	(detect$3 determin$4) same (RFID tagg$3) same (miss$3 displac$3) same (shopping adj3 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/07/26 18:27

			IBM_TDB			
S7	97	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same (warehouse store building)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:40
S8	5	S7 AND ((H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S9	50	S7 AND ((G06F12/1027 OR G06F12/1054 OR G06F17/30132 OR G06F2212/682 OR G06F17/30174 OR G06F17/30575 OR G06F17/30017 OR G06F17/30067 OR G06F17/30215 OR G06F21/50 OR G06F21/88 OR G06F2221/2101 OR G06F2221/2111 OR G06F19/00 OR G06F12/0842 OR G06F12/0864 OR G06F12/121 OR G06F9/30043 OR G06F9/3824 OR G06F12/0804 OR G06F12/082 OR G06F12/0831 OR G06F17/30011 OR G06F17/30023 OR G06F17/30115 OR G06F17/30165 OR G06F17/30233 OR G06F17/30345 OR G06F17/30625 OR G06F17/30631 OR G06F2212/1016 OR G06F2212/604 OR G06F3/14 OR G06F12/0848 OR G06F12/0862 OR G06F12/0866 OR G06F12/0875 OR G06F12/0895 OR G06F12/10 OR G06F12/1018 OR G06F12/12 OR G06F12/1408 OR G06F17/3002 OR G06F17/30035 OR G06F17/30389 OR G06F17/30424 OR G06F17/30442 OR G06F17/30451 OR G06F17/30457 OR G06F17/30477 OR G06F17/30483 OR G06F17/30498 OR G06F17/30516 OR G06F17/30548 OR G06F17/30551 OR G06F17/30554 OR G06F17/30557 OR G06F17/30578 OR G06F17/30616 OR G06F17/30864 OR G06F17/30958 OR G06F19/3418 OR G06F19/3456 OR G06F2212/1021 OR G06F2212/1024 OR G06F2212/1052 OR G06F2212/6026 OR G06F2212/608 OR G06F3/0482 OR G06F3/04842 OR G06F3/0619 OR G06F3/0644 OR G06F3/0652 OR G06F3/0665 OR G06F3/0689 OR H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S10	9	S7 AND ((H04W4/021 OR H04W4/043 OR H04B1/713).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S11	50	S7 AND ((G06Q10/087 OR G06Q30/06	US-PGPUB;	OR	OFF	2018/07/30

		OR G06Q10/08 OR G06Q40/02 OR G06Q20/202 OR G06Q20/208 OR G06Q30/0601 OR G06Q20/042 OR G06Q50/22 OR G06Q50/24 OR G06Q30/0611 OR G06Q10/10 OR G06Q30/0207 OR G06Q30/0621 OR G06Q30/0641 OR G06Q40/12 OR G06Q10/083 OR G06Q20/10 OR G06Q30/01 OR G06Q30/0203 OR G06Q30/0223 OR G06Q30/0239 OR G06Q30/0251 OR G06Q30/0255 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0623 OR G06Q50/01).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:46
S12	14	S7 AND ((H04L67/1095 OR H04L47/196 OR H04L61/1582 OR H04L67/06 OR H04L67/10 OR H04L67/1023 OR H04L67/104 OR H04L67/108 OR H04L67/1097 OR H04L67/2842 OR H04L25/0226 OR H04L67/02 OR H04L67/2852).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S13	2	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	USPAT	OR	OFF	2018/07/30 14:08
S14	5	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 14:09
S15	130	(sens$3 RFID tagg$3) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:08
S16	29	(sens$3 RFID tagg$3) same (phone cellular cell mobile pda iphone ipad) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:11
S17	596	(sens$3 RFID tagg$3 link$3 interfac$3) same (phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:19
S18	26	(phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:21
S19	27	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/12/07 16:36

		cart) same (check$3 track$3) near6 (pric$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S20	2061	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:37
S21	511	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S22	249	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S23	33	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:39
S24	4	"20070129077"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:44
S25	3	"20070260710"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:45
S26	403	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) same (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:46
S27	115	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:49
S28	277	(phone cellular cell mobile pda iphone	US-PGPUB;	OR	OFF	2018/12/08

		ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3 (short adj range) RFID) with (shopping adj2 cart)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:53
S29	433	pay near5 function near8 (mobile pda cell cellular phone iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 13:16

12/ 10/ 2018 4:28:54 PM
C:\ Users\ mvu1\ Documents\ EAST\ Workspaces\ 16012513_Shopping_Cart.wsp

Attorney Docket No. 9466-24TSCT2DV PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Karabinis et al.
Application No.: 16/012,513
Filed: June 19, 2018
For: ***MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION***

Confirmation No.: 1019
Group Art Unit: 2641
Examiner: Michael T. Vu

Date: March 7, 2019

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

AMENDMENT ACCOMPANYING
REQUEST FOR CONTINUED EXAMINATION (RCE)

Applicant provides the present Amendment, which accompanies a Request for Continued Examination (RCE), to address the issues raised in the Final Office Action mailed December 11, 2018.

It is not believed that an extension of time and/or additional fee(s)-including fees for net addition of claims-are required, beyond those that may otherwise be provided for in documents accompanying this paper. In the event, however, that an extension of time is necessary to allow consideration of this paper, such an extension is hereby petitioned under 37 C.F.R. §1.136(a). Any additional fees believed to be due in connection with this paper may be charged to our Deposit Account No. 50-0220.

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method comprising:

detecting by a sensor that an item has been displaced in a store; and

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item.

2. (Previously Presented) The method of Claim 1, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in the shopping cart.

3. (Canceled)

4. (Previously Presented) The method of Claim 2, wherein said detecting is performed by the shopping cart.

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

charging an account associated with the smartphone for the item that has been displaced.

6. (Previously Presented) The method of Claim 5, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

7. (Original) The method of Claim 1, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

8. (Previously Presented) The method of Claim 1,

wherein said detecting comprises detecting that the item has been displaced from a shelf of the store, and

wherein the method further comprises:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone via the communications link a command to delete or change information associated with the item.

9. (Currently Amended) A system that is configured to perform operations comprising:

detecting by a sensor that an item has been displaced from a shelf of a store; and

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item.

10. (Previously Presented) The system of Claim 9, wherein said detecting by a sensor that an item has been displaced comprises:

detecting that the item has been placed in the shopping cart.

11. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

charging an account associated with the smartphone for the item that has been displaced.

12. (Previously Presented) The system of Claim 11, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

13. (Original) The system of Claim 9, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

14. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone via the communications link a command to delete or change information associated with the item.

15. (Previously Presented) The system of Claim 9, wherein said detecting comprises a manufacturer associated with the item.

16. (Withdrawn) The method of Claim 1, further comprising:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

17. (Withdrawn) The method of Claim 16, wherein the location within the store comprises a check-out location.

18. (Previously Presented) The method of Claim 1, wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

19. (Withdrawn) The system of Claim 9, wherein said operations further comprise:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

20. (Withdrawn) The system of Claim 19, wherein the location within the store comprises a check-out location.

21. (Previously Presented) The system of Claim 9, wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

22-27. (Canceled)

28. (New) A method comprising:

detecting by a sensor that an item has been displaced from a shelf of a store;

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to the detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item; and

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete or change information associated with the item.

29. (New) The method of Claim 28, wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

30. (New) A system that is configured to perform operations comprising:

detecting by a sensor that an item has been displaced from a shelf of a store;

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to the detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item; and

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete or change information associated with the item.

31. (New) The system of Claim 30, wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

Electronic Acknowledgement Receipt	
EFS ID:	35349254
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Filer Authorized By:	Vernon H. Guthrie Jr.
Attorney Docket Number:	9466-24TSCT2DV
Receipt Date:	07-MAR-2019
Filing Date:	19-JUN-2018
Time Stamp:	10:22:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$650
RAM confirmation Number	030719INTEFSW10231900
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	9466-24TSCT2DV_RCE.pdf	1350137 e331dd71627b2f13025e47ebdb05bb9aef986e15	no	3
Warnings:					
Information:					
2		9466-24TSCT2DV_Amendment.pdf	833575 52d9e558ff07398028891678835 26ab6bc8bff7e	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment Submitted/Entered with Filing of CPA/RCE	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30716 113cc676ea4ea72198c57c4027da9d3b5eaf1a94	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2214428		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16/012,513	Filing Date	2018-06-19	Docket Number (if applicable)	9466-24TSCT2DV	Art Unit	2641
First Named Inventor	Peter D. Karabinis			Examiner Name	Michael T. Vu		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 500220

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

Signature of Registered U.S. Patent Practitioner			
Signature	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2019-03-07
Name	Vernon H. Guthrie	Registration Number	63798

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

REMARKS

Applicant appreciates the examination of the present application evidenced by the Final Office Action of December 11, 2018 ("Final Action"). In response, Applicant has amended independent Claims 1 and 9, has canceled Claims 22-27, and has added new Claims 28-31. For at least the following reasons, Applicant submits that the present application is in condition for allowance, and a Notice of Allowance is respectfully requested in due course.

Election/Restriction Requirement

The Final Action subjects the claims to election/restriction as set forth below:

Species 1: Claims 1, 2, and 4-15; or

Species 2: Claims 16-27.

(*See* Final Action, page 3.) To expedite prosecution, Applicant has canceled Claims 22-27 and hereby elects **Species 1**, including at least Claims 1, 2, and 4-15, **with traverse**. Moreover, Applicant has indicated Claims 16, 17, 19, and 20 as withdrawn.

Applicant traverses with respect to dependent Claims 18 and 21, which recite that "said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone." Claims 18 and 21 are thus consistent with the Final Action's characterization of Species 1 as being directed to "establishing a communications link between a shopping cart and a smartphone." (*See* Final Action, page 3.) Accordingly, Applicant submits that **Claims 18 and 21 belong with Species 1** rather than with Species 2.

Amended Independent Claims 1 And 9 Are Patentable

Independent Claims 1 and 9 stand rejected under 35 U.S.C. 103 over U.S. Patent No. 7,780,081 to Liang ("Liang") in view of U.S. Pub. No. 2006/0085297 to Minerley ("Minerley"). (*See* Final Action, pages 4, 5, and 7.) Applicant submits, however, that amended independent Claims 1 and 9 are patentable for at least the following reasons.

First, amended independent Claims 1 and 9 recite "establishing a communications link between a shopping cart and a smartphone of a customer." As an example, the present

application describes that "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." (Present Application, paragraph [0034].)

In contrast with "establishing a communications link between a shopping cart and a smartphone of a customer," as recited in amended independent Claims 1 and 9, Minerley discusses interacting with inventory. (*See* Minerley, paragraphs [0039] and [0043].) For example, "FIGS. 5 and 6 show an exemplary shopping cart 500 for interaction with inventory." (Minerley, paragraph [0039].) Moreover, "FIG. 7 shows an exemplary cell phone 700 for interaction with inventory." (Minerley, paragraph [0043].) In particular, the shopping cart 500 or the cell phone 700 may include an RFID reader 104 that reads inventory items. (*See* Minerley, paragraphs [0039], [0040], and [0043].)

Minerley does **not** disclose or suggest a communications link **between (a) the shopping cart 500 and (b) the cell phone 700**. Rather, (a) the shopping cart 500 or (b) the cell phone 700 uses RFID to read (c) inventory items. Such RFID interactions between (a) the shopping cart 500 and (c) the inventory items, or between (b) the cell phone 700 and (c) the inventory items, do **not** disclose or suggest "establishing a communications link **between a shopping cart and a smartphone**," as recited in amended independent Claims 1 and 9. (*Emphasis added.*)

Also, the Final Action concedes that "Liang does not explicitly teach executing, establishing a communications link between a shopping cart and a smartphone." (Final Action, page 5.)

For at least the above reasons, amended independent Claims 1 and 9 are patentable over Liang in view of Minerley.

Second, Applicant has amended independent Claims 1 and 9 to clarify "in response to said detecting [that an item has been displaced], providing at the smartphone from the shopping cart via the communications link a price associated with the item." In contrast with providing a price at a customer's smartphone from a shopping cart, Liang discusses payment by a PDA or a cell phone. (*See* Liang, col. 9, lines 48-50.) Such payment **from a cell phone** (or a PDA) to, for

example, a checkout station, does **not** disclose or suggest "providing **at the smartphone from the shopping cart** via the communications link a price associated with the item," as recited in amended independent Claims 1 and 9, much less doing so "in response to said detecting [that an item has been displaced]." (*Emphasis added.*) Nor does Minerley disclose or suggest providing a price at its cell phone 700 from the shopping cart 500. For at least these additional reasons, amended independent Claims 1 and 9 are patentable over Liang in view of Minerley.

New Independent Claims 28 And 30 Are Patentable

New independent Claim 28 is based on a combination of independent Claim 1 and dependent Claim 8, and new independent Claim 30 is based on a combination of independent Claim 9 and dependent Claim 14. Applicant thus submits that new independent Claims 28 and 30 are patentable for at least the reasons discussed above with respect to independent Claims 1 and 9, as well as for at least similar reasons to the reason discussed below with respect to the separate patentability of dependent Claims 8 and 14.

The Dependent Claims Are Patentable

The dependent claims are patentable at least per the patentability of the independent claims from which they depend. Moreover, the dependent claims include separate bases for patentability.

For example, dependent Claims 8 and 14 recite "detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone [of the customer] via the communications link a command to delete or change information associated with the item." In contrast, the cited portions of Liang with respect to Claims 8 and 14 discuss notifying a store computer/security guard that a product has been removed from a shelf. (*See* Final Action, page 7; and Liang, col. 8, line 39 to col. 10, line 63.) Liang's **store computer/security guard** does **not** disclose or suggest the recited **smartphone of a customer**. Nor does Liang's notification that a product has been **removed** from a shelf disclose or suggest detecting that the product has been **restored** on the shelf **and providing at the smartphone of the customer a command to delete or change information associated with the product**. Accordingly, Liang's discussion of notifying a store computer/security guard that a product has

been removed from a shelf does not disclose or suggest "detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone [of the customer] via the communications link a command to delete or change information associated with the item," as recited in Claims 8 and 14. For at least this reason, Claims 8 and 14 are separately patentable.

As each of the remaining dependent claims depends from a base claim that is believed to be in condition for allowance, Applicant does not believe that it is necessary to argue the allowability of each of these claims individually. Applicant does not necessarily concur with the interpretation of these claims, or with the bases for rejection set forth in the Final Action. Applicant therefore reserves the right to address the patentability of these claims individually as necessary in the future.

CONCLUSION

Applicant has amended the claims herein for the purpose of advancing the present application to allowance and reserves the right to argue the patentability of the claims as originally filed in one or more future applications. Accordingly, Applicant submits that all pending claims in the present application are in condition for allowance, and a Notice of Allowance is respectfully requested in due course. The Examiner is encouraged to contact the undersigned representative by telephone should any additional issues need to be addressed.

Respectfully submitted,



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Attorney for Applicant

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Raleigh, North Carolina 27627
Telephone: (919) 854-1400

Electronic Patent Application Fee Transmittal	
Application Number:	16012513
Filing Date:	19-Jun-2018
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Attorney Docket Number:	9466-24TSCT2DV
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	650	650
		Total in USD ($)		**650**

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 Substitute for Form PTO-875	Application or Docket Number 16/012,513	Filing Date 06/19/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ 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

AMENDMENT	03/07/2019	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 24	Minus	** 26	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0		x $230 =	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

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) 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".	/ALLYSON PURNELL/
*** 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.

Notice of References Cited	Application/Control No. 16/012,513	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 MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6944981-B1	09-2005	Garberg; Dennis D.	A47F5/137	186/27
*	B	US-7503504-B2	03-2009	Mitra; Twisampati	G06K19/0719	235/380
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	9466-24TSCT2DV	1019

20792 7590 04/12/2019

MYERS BIGEL, P.A.
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EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

MAIL DATE	DELIVERY MODE
04/12/2019	PAPER

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.

Office Action Summary	**Application No.** 16/012,513	**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 03/07/2019.

☐ 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) 1-2,4-15,18,21 and 28-31 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) 1-2,4-15,18,21 and 28-31 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 06/19/2018 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 is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/07/2019 has been entered.

Claim Rejections - 35 USC § 103

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

4. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section

> 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 4-15, 18, 21, 28-31 are rejected under 35 U.S.C. 103 as being unpatentable over Garberg et (US 6,944,981), hereinafter "Garberg", in view of Mitra (US 7,503,504), hereinafter "Mitra".

Regarding **claim 1,** Garberg teaches a method comprising:

detecting by a sensor that an item has been displaced in a store (col. 1, line 18 to col. 2, line 50 teach detecting the item in the store); and

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to said detecting (col. 1, line 18 to col. 2, line 50 teach the communication links between a mobile device and a shopping cart),

providing at the smartphone from the shopping cart via the communications link a price associated with the item (col. 1, line 18 to col. 2, line 50 teach providing the communication links associated with the prices in the store), and

Garberg does not explicitly teach further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete or change information associated with the item.

Mitra, in the same field of endeavor, teaches detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to

delete or change information associated with the item (col. 5, line 4 to col. 6, line 37 teach detecting the RFID, PDW, transaction, and authorization when modified the information of the items reads on delete or change).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Garberg to Mitra, in order to provide a variety of security transactions communication between the wireless devices for authorization quickly and accurately (as suggested by Mitra in col. 1-2).

Regarding **claim 2,** the combination of Garberg and Mitra teach the method of Claim 1, Garberg further teaches wherein said detecting by a sensor that an item has been displaced comprises: detecting that the item has been placed in the shopping cart (col. 1, line 16 to col. 2, line 50 detecting the item within the store and processing purchase transactions, col. 5, line 5 to col. 6, line 67).

Regarding **claims 4 and 10,** the combination of Garberg and Mitra teach the method of Claims 2, 9, Garberg further teaches wherein said detecting is performed by the shopping cart (col. 1, line 16 to col. 2, line 50 detecting the item within the store and processing purchase transactions, col. 5, line 5 to col. 6, line 67).

Regarding **claims 5 and 11,** the combination of Garberg and Mitra teach the method of Claims 1, 10, Garberg further teaches comprising: charging an account associated with the smartphone for the item that has been displaced (col. 1, line 16 to

col. 2, line 50 detecting the item within the store and processing purchase transactions, col. 5, line 5 to col. 6, line 67 reads on charging an account).

Regarding **claims 6 and 12,** the combination of Garberg and Mitra teach the the method of Claims 5, 11, Garberg further teaches wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store (col. 1, line 16 to col. 2, line 50 detecting the item within the store and processing purchase transactions, col. 5, line 5 to col. 6, line 67 reads on charging an account based on desired location).

Regarding **claims 7 and 13,** the combination of Garberg and Mitra teach the method of Claims 1, 9, Garberg does not clearly teach wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology **and/or** an image recognition technology.

However, Mitra, in the same field of endeavor, teaches wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology **and/or** an image recognition technology (col. 5, lines 9-36 teach the RFID, bar code technologies) .

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Garberg to Mitra, in order to provide a variety of security transactions communication between the wireless devices for authorization quickly and accurately (as suggested by Mitra in col. 1-2).

Regarding **claims 8 and 14,** the combination of Garberg and Mitra teach the method of Claims 1, 9, Garberg does not clearly teach wherein said detecting comprises detecting that the item has been displaced from a shelf of the store, and wherein the method further comprises: further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone via the communications link a command to delete or change information associated with the item.

However, Mitra, in the same field of endeavor, teaches wherein said detecting comprises detecting that the item has been displaced from a shelf of the store, and wherein the method further comprises: further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone via the communications link a command to delete or change information associated with the item (col. 5, line 4 to col. 6, line 37 teach detecting the RFID, PDW, transaction, and authorization when modified the information of the items reads on delete or change).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Garberg to Mitra, in order to provide a variety of security transactions communication between the wireless devices for authorization quickly and accurately (as suggested by Mitra in col. 1-2).

Regarding to **claim 9**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding **claim 15,** the combination of Garberg and Mitra teach the system of Claim 9, Garberg further teaches wherein said detecting comprises a manufacturer associated with the item (col. 1, line 42 to col. 2, line 2, line 50 teach distributing samples and promotional items).

Regarding **claims 18 and 21,** the combination of Garberg and Mitra teach the method of Claims 1, 9, Garberg does not teach wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

Mitra, in the same field of endeavor, teaches wherein said establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone (col. 2, lines 2-8-60 teach transaction identifier and/or between the devices).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Garberg to Mitra, in order to provide a variety of security transactions communication between the wireless devices for authorization quickly and accurately (as suggested by Mitra in col. 1-2).

Regarding to **claim 28**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding **claims 29 and 31,** the combination of Garberg and Mitra teach the method of Claims 28, 30, Garberg does not teach wherein said establishing a communications link between a shopping cart wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

However, Mitra, in the same field of endeavor, teaches wherein said establishing a communications link between a shopping cart wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone (col. 2, lines 2-8-60 teach transaction identifier and/or between the devices).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Garberg to Mitra, in order to provide a variety of security transactions communication between the wireless devices for authorization quickly and accurately (as suggested by Mitra in col. 1-2).

Regarding to **claim 30**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Conclusion

6. 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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

✓	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								
Final	Original	04/09/2019	04/09/2019	04/09/2019						
	1	✓	26	÷						
	2	✓	27	÷						
	3	-	28	✓						
	4	✓	29	✓						
	5	✓	30	✓						
	6	✓	31	✓						
	7	✓								
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	21	✓								
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	24	÷								
	25	÷								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 72/02	04/09/2019	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 Karabinis	04/09/2019	MTV
Assignee: Telcom Ventures	04/09/2019	MTV
Double Patent Checked	04/09/2019	MTV
EAST Searched System	04/09/2019	MTV

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

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:14
S2	55	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:16
S3	0	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store and (RFID tagg$3 barcode bar-code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:17
S4	1033	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:19
S5	8	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same shopping near5 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:22
S6	10	(detect$3 determin$4) same (RFID tagg$3) same (miss$3 displac$3) same (shopping adj3 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:27
S7	97	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same (warehouse store building)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:40
S8	5	S7 AND ((H04W4/021 OR	US-PGPUB;	OR	OFF	2018/07/30

		H04W4/043).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:45
S9	50	S7 AND ((G06F12/1027 OR G06F12/1054 OR G06F17/30132 OR G06F2212/682 OR G06F17/30174 OR G06F17/30575 OR G06F17/30017 OR G06F17/30067 OR G06F17/30215 OR G06F21/50 OR G06F21/88 OR G06F2221/2101 OR G06F2221/2111 OR G06F19/00 OR G06F12/0842 OR G06F12/0864 OR G06F12/121 OR G06F9/30043 OR G06F9/3824 OR G06F12/0804 OR G06F12/082 OR G06F12/0831 OR G06F17/30011 OR G06F17/30023 OR G06F17/30115 OR G06F17/30165 OR G06F17/30233 OR G06F17/30345 OR G06F17/30625 OR G06F17/30631 OR G06F2212/1016 OR G06F2212/604 OR G06F3/14 OR G06F12/0848 OR G06F12/0862 OR G06F12/0866 OR G06F12/0875 OR G06F12/0895 OR G06F12/10 OR G06F12/1018 OR G06F12/12 OR G06F12/1408 OR G06F17/3002 OR G06F17/30035 OR G06F17/30389 OR G06F17/30424 OR G06F17/30442 OR G06F17/30451 OR G06F17/30457 OR G06F17/30477 OR G06F17/30483 OR G06F17/30498 OR G06F17/30516 OR G06F17/30548 OR G06F17/30551 OR G06F17/30554 OR G06F17/30557 OR G06F17/30578 OR G06F17/30616 OR G06F17/30864 OR G06F17/30958 OR G06F19/3418 OR G06F19/3456 OR G06F2212/1021 OR G06F2212/1024 OR G06F2212/1052 OR G06F2212/6026 OR G06F2212/608 OR G06F3/0482 OR G06F3/04842 OR G06F3/0619 OR G06F3/0644 OR G06F3/0652 OR G06F3/0665 OR G06F3/0689 OR H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S10	9	S7 AND ((H04W4/021 OR H04W4/043 OR H04B1/713).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S11	50	S7 AND ((G06Q10/087 OR G06Q30/06 OR G06Q10/08 OR G06Q40/02 OR G06Q20/202 OR G06Q20/208 OR G06Q30/0601 OR G06Q20/042 OR G06Q50/22 OR G06Q50/24 OR G06Q30/0611 OR G06Q10/10 OR G06Q30/0207 OR G06Q30/0621 OR G06Q30/0641 OR G06Q40/12 OR G06Q10/083 OR G06Q20/10 OR G06Q30/01 OR G06Q30/0203 OR G06Q30/0223 OR G06Q30/0239 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46

		G06Q30/0251 OR G06Q30/0255 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0623 OR G06Q50/01).CPC.)				
S12	14	S7 AND ((H04L67/1095 OR H04L47/196 OR H04L61/1582 OR H04L67/06 OR H04L67/10 OR H04L67/1023 OR H04L67/104 OR H04L67/108 OR H04L67/1097 OR H04L67/2842 OR H04L25/0226 OR H04L67/02 OR H04L67/2852).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S13	2	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	USPAT	OR	OFF	2018/07/30 14:08
S14	5	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 14:09
S15	130	(sens$3 RFID tagg$3) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:08
S16	29	(sens$3 RFID tagg$3) same (phone cellular cell mobile pda iphone ipad) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:11
S17	596	(sens$3 RFID tagg$3 link$3 interfac$3) same (phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:19
S18	26	(phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:21
S19	27	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:36
S20	2061	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/12/07 16:37

			IBM_TDB			
S21	511	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S22	249	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S23	33	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:39
S24	4	"20070129077"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:44
S25	3	"20070260710"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:45
S26	403	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) same (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:46
S27	115	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:49
S28	277	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3 (short adj range) RFID) with (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/08 15:53
S29	433	pay near5 function near8 (mobile pda cell cellular phone iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/12/10 13:16

			EPO; JPO; DERWENT; IBM_TDB			
S31	6	"20060085297"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:54
S32	22452	(mobile phone cellular iphone) near4 pay$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S33	1065	(mobile phone cellular iphone) near4 pay$3 same shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S34	422	(mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S35	10	(detect$3 sens$3) near10 (mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:57
S36	35	(mobile phone cellular iphone) near4 pay$3 near9 shop$4 near2 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:58
S37	5080	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) same shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S38	2484	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) near9 shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S39	3575	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item	US-PGPUB; USPAT;	OR	OFF	2018/12/10 15:01

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S40	220	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item same (shop$4 adj cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:02
S41	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:56
S42	5	((shopping adj cart) near8 (identity number) near6 assign$3) same (phone smart mobile pda cellular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:56
S43	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:59
S44	5	"9474012"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/08 13:24
S45	12155	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:15
S46	1885	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:18
S47	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:18
S48	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:20
S49	7	S48 AND ((G06Q30/06 OR G06Q30/0633 OR G06Q30/0641 OR G06Q10/083 OR	USPAT	OR	OFF	2019/04/09 11:21

		G06Q30/0635 OR G06Q10/0836 OR G06Q10/087 OR G06Q20/20 OR G06Q20/343 OR G06Q20/36 OR G06Q30/02 OR G06Q30/0211 OR G06Q30/0214 OR G06Q30/0222 OR G06Q30/0224 OR G06Q30/0242 OR G06Q30/0261 OR G06Q30/0267 OR G06Q30/0601 OR G06Q30/0623 OR G06Q30/0625).CPC.)				
S50	88	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:22

4/9/2019 4:14:50 PM
C:\Users\mvu1\Documents\EAST\Workspaces\16012513_Shopping_Cart.wsp

Electronic Acknowledgement Receipt	
EFS ID:	36403548
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Aaron Wesley Pederson
Filer Authorized By:	
Attorney Docket Number:	9466-24TSCT2DV
Receipt Date:	25-JUN-2019
Filing Date:	19-JUN-2018
Time Stamp:	14:26:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	TLV-Post_AIA_POA_SIGNED.pdf	58874 63651f6a448b0083f58113bc773628cf4f20ee3b	no	1

Warnings:

Information:					
2	Transmittal Letter	1348-001US4_POA_Trans.pdf	212089 e19b5c85d76067ee90f988faeb6ffe4f8171a86f	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	270963	

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

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Application Number	Filing Date

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

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OR

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☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

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.**

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

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

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

Application Number	16/012,513
Filing Date	2018-06-19
First Named Inventor	Peter D. Karabinis
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.001US4

SIGNATURE of Applicant or Patent Practitioner

Signature	/Aaron W. Pederson/	Date (Optional)	2019-06-25
Name	Aaron Pederson	Registration Number	58607
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☐ *Total of _____ forms are submitted.

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

PTO/AIA/82B (07-13)
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Application Number	Filing Date
16/012,513	2018-06-19

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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.)

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☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number: 138517

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

TLV

☐ 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)	2019-06-25
Name	Peter D. Karabinis		
Title			

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

☐ Total of forms are submitted.

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

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

PTO/AIA/82C (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
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

POWER OF ATTORNEY BY APPLICANT

No more than ten (10) patent practitioners total may be appointed as set forth below by name and registration number. This page need not be submitted if appointing the Patent Practitioner(s) associated with a Customer Number (see form PTO/AIA/82B):

Name	Registration Number

Privacy Act Statement

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/012,513	06/19/2018	Peter D. Karabinis	1348.001US4

CONFIRMATION NO. 1019

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

POA ACCEPTANCE LETTER

OC000000109206771

Date Mailed: 06/27/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/25/2019.

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

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

/snguyen/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/012,513	06/19/2018	Peter D. Karabinis	9466-24TSCT2DV

CONFIRMATION NO. 1019

POWER OF ATTORNEY NOTICE

20792
MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

OC000000109206757

Date Mailed: 06/27/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/25/2019.

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

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

/snguyen/

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.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

138517 7590 07/15/2019

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
07/15/2019	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):

apederson@carlsoncaspers.com
eofficeaction@appcoll.com
spadilla@carlsoncaspers.com

Applicant-Initiated Interview Summary	**Application No.** 16/012,513	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA (FITF) Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) MICHAEL T. VU. (3) _____.

(2) Aaron Pederson. (4) _____.

Date of Interview: 10 July 2019.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☑ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1,9,28 and 30.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's representative (Mr. Pederson) discussed and explained the invention of claims 1, 9, 28, and 30 to get clarification and addition advisement of the claims. During the conversation, the Examiner explained the claims invention and also invites the applicant to amend the claims with the steps by steps, e.g., how does it work with detecting the item, shopping cart, mobile device, and the price that associate with the item as to how? However, the applicant's representative will discuss with the applicant to amend the claims, but it was not reached at this time..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	16/012,513
Applicant	:	Telcom Ventures LLC
Filed	:	June 19, 2018
Art Unit	:	2641
Examiner	:	Michael T VU
Confirmation No.:		1019
Docket No.	:	1348.002US4
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

RESPONSE TO NON-FINAL OFFICE ACTION

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

Sir:

In response to the Non-Final Office Action mailed April 12, 2019, please consider the following:

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

Remarks, beginning on page 6 of this paper.

This paper is accompanied by the fee for a 3-month extension of time, extending the period of response from July 12, 2019 to October 12, 2019. 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.

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A method comprising:

receiving, by a smartphone of a customer, an identity of a carrying structure to be used by the customer for carrying products for purchase in a store;

establishing a short-range communications link between the carrying structure and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in or on the carrying structure; ~~an item has been displaced in a store;~~ and

~~establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and,~~ in response to said detecting, providing at the smartphone from the ~~shopping cart~~ carrying structure via the short-range communications link a price associated with the product that is placed in or on the carrying structure. ~~item.~~

2. (Cancelled)

3. (Canceled)

4. (Currently Amended) The method of Claim 1, [[2,]] wherein said detecting is performed by the carrying structure. ~~shopping cart.~~

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

charging an account associated with the smartphone for the product ~~item~~ that has been placed in or on the carrying structure. ~~displaced.~~

6. (Previously Presented) The method of Claim 5, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

7. (Original) The method of Claim 1, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

8. (Currently Amended) The method of Claim 1,

~~wherein said detecting comprises detecting that the item has been displaced from a shelf of the store, and~~

wherein the method further comprises:

~~further~~ detecting by the sensor that the product ~~item~~ that had been placed in or on the carrying structure has been removed from the carrying structure; ~~displaced has been restored on the shelf of the store~~ and

providing at the smartphone via the short-range communications link a command to delete or change information associated with the product. ~~item.~~

9. (Currently Amended) A system that is configured to perform operations comprising:

receiving, by a smartphone of a customer, an identify of a carrying structure to be used by the customer for carrying products for purchase in a store;

establishing a short-range communications link between the carrying structure and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in or on the carrying structure; ~~an item has been displaced from a shelf of a store;~~ and

~~establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and,~~ in response to said detecting, providing at the smartphone from the ~~shopping cart~~ carrying structure via the short-range communications link a price associated with the product that is placed in or on the carrying structure. ~~item.~~

10. (Cancelled)

11. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

charging an account associated with the smartphone for the product ~~item~~ that has been placed in or on the carrying structure. ~~displaced.~~

12. (Previously Presented) The system of Claim 11, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

13. (Original) The system of Claim 9, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

14. (Currently Amended) The system of Claim 9, wherein said operations further comprise:

~~further~~ detecting by the sensor that the product ~~item~~ that had been placed in or on the carrying structure has been removed from the carrying structure; ~~displaced has been restored on the shelf of the store~~ and

providing at the smartphone via the short-range communications link a command to delete or change information associated with the product. ~~item.~~

15. (Currently Amended) The system of Claim 9, wherein said detecting comprises detecting a manufacturer associated with the item.

16. (Withdrawn) The method of Claim 1, further comprising:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

17. (Withdrawn) The method of Claim 16, wherein the location within the store comprises a check-out location.

18. (Cancelled)

19. (Withdrawn) The system of Claim 9, wherein said operations further comprise:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

20. (Withdrawn) The system of Claim 19, wherein the location within the store comprises a check-out location.

21. – 27. (Canceled)

28. (Previously Presented) A method comprising:

detecting by a sensor that an item has been displaced from a shelf of a store;

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to the detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item; and

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete or change information associated with the item.

29. (Previously Presented) The method of Claim 28, wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

30. (Previously Presented) A system that is configured to perform operations comprising:

detecting by a sensor that an item has been displaced from a shelf of a store;

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to the detecting, providing at the smartphone from the shopping cart via the communications link a price associated with the item; and

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete or change information associated with the item.

31. (Previously Presented) The system of Claim 30, wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16012513
Filing Date	2018-06-19
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US4

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8249935	B1	2012-08-21	DiMartino et al.	
	2	8965281	B2	2015-02-24	Raisanen et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20080140667	A1	2008-06-12	LaBiche	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/251,834, 5/9/2019, pp. 1-10	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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 W. Pederson/	Date (YYYY-MM-DD)	2019-09-19
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.**

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.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	37212436
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson/Selina Padilla
Filer Authorized By:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US4
Receipt Date:	19-SEP-2019
Filing Date:	19-JUN-2018
Time Stamp:	14:42:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$820
RAM confirmation Number	E20199IE44379838
Deposit Account	502880
Authorized User	Selina Padilla
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		13480004US2-ResponsetoNFOA_SIGNED.pdf	114673 385d12319126c671fbcc12bc767956dec5536400	yes	7
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	1	
	Amendment/Req. Reconsideration-After Non-Final Reject		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	7	
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	1348002US4-20190919-IDS.pdf	1053274 7c51737215056aaa9c0f3e5f7d03cba0af14753f	no	4
Warnings:					
Information:					
3	Non Patent Literature	20190509-OA_Non-FinalRejection.pdf	369095 19f695353ec73795e9c0b976eda1f289ef7da6da	no	10
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	32765 58e44cfd1dab93d9c5dd5bfa8a1db2f7c511dbf3	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1569807		

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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

REMARKS

This paper is responsive to the Non-Final Office Action dated April 12, 2019 wherein claims 1-2, 4-15, 18, 21, and 28-31 were pending and rejected. With this paper, claims 1, 4, 5, 8, 9, 14, and 15 are amended and claims 2, 10, 18, and 21 are cancelled. Upon entry, claims 1, 3-9, 11-17, 19, 20, and 28-31 will be pending in this application. Reconsideration and further prosecution of the present application is respectfully requested.

Examiner Interview Summary

Applicant's representative, Aaron Pederson (Reg. No. 58,607), thanks Examiner Michael Vu for the opportunity to discuss aspects of the subject application in a telephone call on July 10, 2019. During the call, claims 1, 9, 28, and 30 were discussed. Applicant's representative explained the subject matter of the claims and the Examiner agreed that the subject matter of the claims was likely not disclosed by the references in the current rejections. The Examiner also suggest amending the claims to include step-by-step recitation of the subject matter. Applicant's representative agreed to consider the suggestion.

Applicant believes the substance and scope of the telephone conversation on July 10, 2019 with respect to this application is accurately captured in the summary above.

Rejections Under 35 U.S.C. § 103

Claims 1-2, 4-15, 18, 21, and 28-31 were rejected under 35 USC § 103 as being unpatentable over Garberg et al. (US 6,944,981) in view of Mitra (US 7,503,504). Applicant respectfully traverses these rejections.

Applicant thanks Examiner Vu for the suggestion to include step-by-step recitations in the independent claims. Independent claims 1 and 9 are amended herein to include such step-by-step recitations. Neither Garberg nor Mitra, nor the combination thereof, teach or suggest the language of amended language of independent claims 1 or 9. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection to claims 1 and 9 with respect to Garberg and Mitra.

Claims 4-8, 11-17, and 19 depend from one of claims 1 or 9. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection of these claims for the reasons provided above with respect to claims 1 and 9.

Claims 2, 10, 18, and 21 have been cancelled.

Claims 28 and 30 recite in pertinent part "detecting by a sensor that an item has been displaced from a shelf of a store". Neither Garberg, nor Mitra, nor the combination thereof teach or suggest such language. Garberg relates to a mobile display for samples in a store and does not disclose detecting by a sensor that an item has been displaced in a store. Mitra relates to a financial transaction card and does not remedy this defect. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection to claims 28 and 30 with respect to Garberg and Mitra.

Claims 29 and 31 depend from one of claims 28 or 30. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection of these claims for the reasons provided above with respect to claims 28 and 30.

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.

Customer No. 138517

Date: September 19, 2019

Respectfully submitted,

/Aaron W. Pederson/

Aaron Pederson
Registration No. 58607

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/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/012,513	Filing Date 06/19/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ 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

AMENDMENT	09/19/2019	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 26	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0		x $230 =	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

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) 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".	/VINCENT S BUTLER/
*** 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.

Electronic Patent Application Fee Transmittal	
Application Number:	16012513
Filing Date:	19-Jun-2018
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Aaron Wesley Pederson/Selina Padilla
Attorney Docket Number:	1348.002US4
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $0 paid	2253	1	700	700
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**820**

Notice of References Cited	Application/Control No. 16/012,513	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 MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060165060-A1	07-2006	Dua; Robin	G06Q20/20	370/352
*	B	US-8091780-B2	01-2012	Todd; Jason	A47F9/046	235/380
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
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	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16012513
Filing Date	2018-06-19
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US4

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8249935	B1	2012-08-21	DiMartino et al.	
	2	8965281	B2	2015-02-24	Raisanen et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20080140667	A1	2008-06-12	LaBiche	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/251,834, 5/9/2019, pp. 1-10	

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EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	12/12/2019

*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.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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 W. Pederson/	Date (YYYY-MM-DD)	2019-09-19
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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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

138517 7590 12/19/2019

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
12/19/2019	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):

apederson@carlsoncaspers.com
eofficeaction@appcoll.com
spadilla@carlsoncaspers.com

Office Action Summary	**Application No.** 16/012,513	**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 09/19/2019.

☐ 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) 1,4-9,11-15 and 28-31 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) 1,4-9,11-15 and 28-31 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 _____ 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

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 09/19/2019 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 4-9, and 11-15 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

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

4. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 4-9, 11-15 are rejected under 35 U.S.C. 103 as being unpatentable over Dua (US 2006/0165060), hereinafter "Dua", in view of Todd et al (US 8,091,780), hereinafter "Todd", further in view of Garberg et al (US 6,944,981), hereinafter "Garberg".

Regarding **claim 1,** Dua teaches a method comprising:

receiving, by a smartphone of a customer (pars [0313-0315] teach a mobile device with a wallet application that is connected to a point of sale (POS), an identity of a carrying structure to be used by the customer for carrying products for purchase in a store (pars [0351-0354] teach setup to accept those credentials via RFID readers installed between the mobile device and the POS in a store reads on an identity):

establishing a short-range communications link between the carrying structure and the smartphone responsive to receiving said identity (pars [0353-0354] teach the RFID during a proximity transaction, and par [0026] teach a short range wireless link with a point-of-sale (POS) terminal): and

in response to said detecting, providing at the smartphone from the carrying structure via the short-range communications link a price associated with the product that is placed in (pars [0026] [0353-0354], and [0489] teach response to to the mobile device transaction via the short range communication link that associated with the transaction, and purchase price) **or** on the carrying structure.

Dua does not explicitly teach detecting by a sensor that a product for purchase has been placed in **or** on the carrying structure;

Todd, in the same field of endeavor, teaches detecting by a sensor that a product for purchase has been placed in (col. 3, line 46 to col. 4, line 30 teach the

sensor that detecting the items to be checked out to complete the transaction and verify the prices for each piece of merchandise which reads on the limitation);**or** on the carrying structure.

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua to Todd, in order to provide a comprehensive of the flexible device to improve the financial transactions within the store for user conveniently, and improving the customer`s shopping experience while interfacing with customers at the store in an effective manner (as suggested by Todd in column 1, line 21 to col. 2, line 46).

However, Dua and Todd do not explicitly teach a carrying structure to be used.

Garberg, in the same field of endeavor, teaches a carrying structure to be used (See col. 1, line 49 to col. 3, line 52 teach the shopping cart that is being used, e.g., self-service within the store, in which reads on a carrying structure to be used).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua and Todd to Garberg, in order to provide the shopper receives a benefit at the mobile display and actually consummates the purchase remote from the mobile display within the store for user conveniently (as suggested by Garberg in column 1, line 10 to col. 2, line 50).

Regarding **claim 4,** the combination of Dua, Todd and Garberg teach the method of Claim 1, Dua and Todd do not clearly teach wherein said detecting is performed by the carrying structure.

Garberg, in the same field of endeavor, teaches wherein said detecting is performed by the carrying structure (See col. 1, line 49 to col. 3, line 52 teach the shopping cart that is being used, e.g., self-service within the store, in which reads on a carrying structure to be used).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua and Todd to Garberg, in order to provide the shopper receives a benefit at the mobile display and actually consummates the purchase remote from the mobile display within the store for user conveniently (as suggested by Garberg in column 1, line 10 to col. 2, line 50).

Regarding **claims 5 and 11,** the combination of Dua, Todd and Garberg teach the method of Claims 1, 9, Dua further teaches comprising: charging an account associated with the smartphone for the product that has been placed in (pars [0011-0012], [0041] teach the ability to integrate multiple payment, retail payments, and loyalty accounts on the device) or on the carrying structure.

Regarding **claims 6 and 12,** the combination of Dua, Todd and Garberg teach the method of Claims 5, 11, Dua further teaches wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store (pars [0011-0012], [0041] teach the ability to integrate multiple payment, retail payments, and loyalty accounts on the device).

Regarding **claims 7 and 13,** the combination of Dua, Todd and Garberg teach the method of Claims 1, 9, Dua further teaches wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology (pars [0016] [0019] teach infra-red, NFC, and bar code) **and/or** an image recognition technology.

Regarding **claims 8 and 14,** the combination of Dua, Todd and Garberg teach the the method of Claims 1, 9, Dua teaches wherein the method further comprises: detecting by the sensor that the product that had been placed in (pars [0016-0018]) **or** on the carrying structure has been removed from the carrying structure: and providing at the smartphone via the short-range communications link a command to delete (pars [0016-0018] **or** change information associated with the product.

Dua and Todd do not clearly teach the carrying structure is being used.

Garberg, in the same field of endeavor, teaches the carrying structure is being used.

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua and Todd to Garberg, in order to provide the shopper receives a benefit at the mobile display and actually consummates the purchase remote from the mobile display within the store for user conveniently (as suggested by Garberg in column 1, line 10 to col. 2, line 50).

(See col. 1, line 49 to col. 3, line 52 teach the shopping cart that is being used, e.g., self-service within the store, in which reads on a carrying structure to be used).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua and Todd to Garberg, in order to provide the shopper receives a benefit at the mobile display and actually consummates the purchase remote from the mobile display within the store for user conveniently (as suggested by Garberg in column 1, line 10 to col. 2, line 50).

Regarding **claim 15,** the combination of Dua, Todd and Garberg teach the system of Claim 9, Dua further teaches wherein said detecting comprises detecting a manufacturer associated with the item (pars [0352] [0426] teach selects the items to buy and to pay for the purchases).

Regarding to **claim 9**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

6. Applicant's Remarks/Arguments filed 09/19/2019, have been fully considered but they are not persuasive.

Applicant argued that neither Garberg and Mitra teach "detecting by a sensor that an item has been displaced from a shelf of a store", of claims 28-31, see REMARKS page 7, lines 2-5. The examiner respectfully disagrees with the applicant's argument.

In response, the examiner carefully reviewed the Applicant's Remarks. Garberg teaches the mobile display may be moved intermittently to advantageous locations

throughout the store where shoppers congregate, in which reads on displaced the item was detected (See Abstract).

Moreover, Garberg teaches a shopping cart on location at the retail store and a display into the store, may position the display at advantageous locations during the course of the time of the promotion or move away from areas of restocking, and sampling displays usually located near the aisle or shelf where the product is displayed at retail, in which reads on displaced the item that was detected (See col. 58-64).

Additionally, Garberg teaches the method of converting may also include placement of saleable items into the basket whereby the mobile display is configured to both items displayed on the panel as samples and saleable items from the basket congregate (col. 2, lines 64-67), and Garberg further teaches a readily movable product retainer from which the saleable items, in which reads on displaced the item (col. 3, lines 31-32).

Furthermore, Mitra teaches an radio frequency identification (RFID) tag readers, bar code readers, personal information systems like handheld ones, cell phone digital camera or games, etc. These extension devices have the ability to read codes like RFID, bar code or other kinds of codes. In an embodiment, then through the embedded software and processor and processors (not shown), the extension device has the ability to interpret the codes and take appropriate action. In one such example embodiment, the card is able to read **RFID tags on products in a store inherently includes a sensor that can keep track of the item that located in the store**, and to calculate a running total cost as the user selects items. Then extension device can keep track of the item in a virtual shopping card and also, keep track of items and/or costs. A

user then has the ability to modify the shopping card based on what he is willing to pay and is able to make intelligent shopping decisions based on the cumulative and individual costs of items that is continuously be updated means that items are located in the store and also displayed or displace in the store means can keep track of the items, in which reads on displaced from the shelf of a store, etc. (See col. 5, line12-26).

Dua (US 2006/0165060) teaches between the mobile device and the POS via the short range communication.

Todd (US 8,091,780) teaches the wireless sensor, NFC, RFID that locate the items and check out the items in the store.

In view of the above the rejections using Garberg and Mitra are maintained. This rejection is made FINAL.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garberg et al (US 6,944,981), hereinafter "Garberg", in view of Mitra (US 7,503,504), hereinafter "Mitra".

Regarding **claims 28 and 30,** Garberg teaches a method comprising:

detecting by a sensor that an item has been displaced from a shelf of a store (col. 2, lines 64-67, and col. 3, lines 31-32 teach the shopping cart is provided from a store, and a shopping cart on location at the retail store and a display into the store, may position the display at advantageous locations);

establishing a communications link between a shopping cart and a smartphone of a customer associated with the item and, in response to the detecting (col. 2, lines 64-67, and col. 3, lines 31-32 teach configured to both items displayed on the panel as samples and saleable items detecting (col. 2, lines 64-67, and col. 3, lines 31-32 teach configured to both items), providing at the smartphone from the shopping cart via the communications link a price associated with the item (col. 1, line 49 to col. 2, line 50); and

further detecting by the sensor that the item that had been displaced has been restored on the shelf of the store and providing at the smartphone from the shopping cart via the communications link a command to delete **or** change information associated with the item (col. 1, line 49 to col. 2, line 50).

Garberg, does not clearly teach a sensor that detect the item bas been displace. However, Mitra teaches a sensor that detect the item bas been displace (an radio frequency identification (RFID) tag is able to read **RFID tags on products in a store inherently includes a sensor that can keep track of the item that located in the store**, and to calculate a running total cost as the user selects items, Then extension device can keep track of the item in a virtual shopping card and also, keep track of items and/or costs. A user then has the ability to modify the shopping card based on

what he is willing to pay and is able to make intelligent shopping decisions based on the cumulative and individual costs of items that is continuously be updated means that items are located in the store and also displayed or displace in the store means can keep track of the items, in which reads on displaced from the shelf of a store, etc. (See col. 5, line12-26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Garber, with Mitra's teaching, in order to provide the RFID tags to keep track of the products and/or the items in a store for accountable (as taught by Mitra, col. 5, lines 11-28).

Regarding claims 29 and 31, the combination of Garberg and Mitra teach the method of Claim 28, Garberg further teaches wherein the establishing a communications link between a shopping cart and a smartphone is performed in response to the customer inputting an identity of the shopping cart to the smartphone (col. 2, line 49 to col. 2, line 50 teach the shopping cart and the mobile device that response to the shoppers).

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

✓	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**								
Final	Original	12/12/2019	12/12/2019	12/12/2019						
	1	✓	26	-						
	2	-	27	-						
	3	-	28	✓						
	4	✓	29	✓						
	5	✓	30	✓						
	6	✓	31	✓						
	7	✓								
	8	✓								
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	18	-								
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	20	÷								
	21	-								
	22	-								
	23	-								
	24	-								
	25	-								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 72/02	12/12/2019	MTV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W 4/50	12/12/2019	MTV

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 Karabinis	12/12/2019	MTV
Assignee: Telcom Ventures	12/12/2019	MTV
Double Patent Checked	12/12/2019	MTV
EAST Searched System	12/12/2019	MTV

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

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	7393	H04W48/04.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
L5	117	(sensor sens$3) near15 (shopp$3 buy$3 purchas$3) near8 (store) near9 (mobile celluar portable pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
L6	0	l4 and l5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
L7	86	5 AND ((G06Q30/02 OR G06Q30/0201 OR G06Q10/10 OR G06Q20/1235 OR G06Q30/06 OR G06Q30/0269 OR G06Q10/087 OR G06Q50/01 OR G06Q30/0261 OR G06Q30/0265 OR G06Q30/0631 OR G06Q30/0267 OR G06Q30/0241 OR G06Q30/0255 OR G06Q20/208 OR G06Q30/0202 OR G06Q30/0601 OR G06Q30/0633 OR G06Q30/0635 OR G06Q10/08 OR G06Q10/0838 OR G06Q20/12 OR G06Q30/0203 OR G06Q30/0204 OR G06Q30/0207 OR G06Q30/0251 OR G06Q30/0281 OR G06Q10/06 OR G06Q10/06393 OR G06Q10/101 OR G06Q20/123 OR G06Q20/18 OR G06Q20/202 OR G06Q20/322 OR G06Q20/3223 OR G06Q20/327 OR G06Q20/38 OR G06Q20/3829 OR G06Q20/42 OR G06Q2220/00 OR G06Q30/016 OR G06Q30/0211 OR G06Q30/0226 OR G06Q30/0239 OR G06Q30/0259 OR G06Q30/0621 OR G06Q30/0625 OR G06Q30/0639 OR G06Q30/0641 OR G06Q30/0643).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
L8	39	5 AND ((G06F16/9535 OR G06F16/273 OR G06F16/3344 OR G06F16/4387 OR G06F16/4393 OR G06F16/637 OR G06F16/639 OR G06F21/10 OR G06F21/6236 OR G06F2213/0038 OR G06F2216/01 OR G06F2221/2113 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/12/13 16:43

		G06F2221/2137 OR G06F3/14 OR G06F16/24 OR G06F16/24575 OR G06F16/90328 OR G06F17/27 OR G06F3/011 OR G06F3/013 OR G06F8/00 OR G06F16/9537 OR G06F17/5054 OR G06F1/3234 OR G06F21/57 OR G06F21/602 OR G06F21/74 OR G06F21/85 OR G06F2217/78 OR G06F3/0482 OR G06F3/0484 OR G06F3/0485).CPC.)	IBM_TDB			
L9	9	5 AND ((H04M2203/2044 OR H04M2203/554 OR H04M2203/655 OR H04M2207/18 OR H04M3/42374 OR H04M1/0264).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
L10	25	5 AND ((H04W4/16 OR H04W4/029 OR H04W4/80 OR H04W4/21 OR H04W4/50 OR H04W4/70 OR H04W4/12 OR H04W4/02 OR H04W4/023 OR H04W4/60 OR H04W64/00 OR H04W48/16 OR H04W4/021 OR H04W4/06 OR H04W4/18 OR H04W64/006 OR H04W8/22).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
L11	109	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:44
L12	13	11 AND ((H04W4/029 OR H04W12/06 OR H04W4/023 OR H04W12/00508 OR H04W4/02 OR H04W4/024 OR H04W4/24 OR H04W4/33).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:44
L13	34	("20030055707" | "20050256786" | "20060200378" | "20080306756" | "20090012704" | "20110029997" | "20120095805" | "20120123674" | "20130103539" | "20130282533" | "20140359510" | "20150100383" | "20150269549" | "20160041000" | "6018397" | "6601759" | "6606411" | "6745186" | "6810149" | "6886101" | "6937989" | "7006982" | "7177820" | "7222363" | "7431208" | "7587756" | "7716064" | "8069092" | "8207851" | "8572712" | "8814039" | "8820633" | "8851369" | "8930134").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/13 16:45
L14	4	("20040193413" | "20140033134" | "20140337930" | "20150085111").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/13 16:45
L19	349	("20010014870" | "20010042010" | "20020002504" | "20020004783" | "20020010627" | "20020046084" | "20020065713" | "20020091569" | "20020091571" | "20020107738" | "20020111140" | "20020111907" | "20020116271" | "20020117544" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/13 16:45

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S1	0	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:14
S2	55	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:16
S3	0	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store and (RFID tagg$3 barcode bar-code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:17
S4	1033	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:19
S5	8	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same shopping near5 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:22
S6	10	(detect$3 determin$4) same (RFID tagg$3) same (miss$3 displac$3) same (shopping adj3 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:27
S7	97	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same (warehouse store building)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:40
S8	5	S7 AND ((H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/07/30 12:45

			EPO; JPO; DERWENT; IBM_TDB			
S9	50	S7 AND ((G06F12/1027 OR G06F12/1054 OR G06F17/30132 OR G06F2212/682 OR G06F17/30174 OR G06F17/30575 OR G06F17/30017 OR G06F17/30067 OR G06F17/30215 OR G06F21/50 OR G06F21/88 OR G06F2221/2101 OR G06F2221/2111 OR G06F19/00 OR G06F12/0842 OR G06F12/0864 OR G06F12/121 OR G06F9/30043 OR G06F9/3824 OR G06F12/0804 OR G06F12/082 OR G06F12/0831 OR G06F17/30011 OR G06F17/30023 OR G06F17/30115 OR G06F17/30165 OR G06F17/30233 OR G06F17/30345 OR G06F17/30625 OR G06F17/30631 OR G06F2212/1016 OR G06F2212/604 OR G06F3/14 OR G06F12/0848 OR G06F12/0862 OR G06F12/0866 OR G06F12/0875 OR G06F12/0895 OR G06F12/10 OR G06F12/1018 OR G06F12/12 OR G06F12/1408 OR G06F17/3002 OR G06F17/30035 OR G06F17/30389 OR G06F17/30424 OR G06F17/30442 OR G06F17/30451 OR G06F17/30457 OR G06F17/30477 OR G06F17/30483 OR G06F17/30498 OR G06F17/30516 OR G06F17/30548 OR G06F17/30551 OR G06F17/30554 OR G06F17/30557 OR G06F17/30578 OR G06F17/30616 OR G06F17/30864 OR G06F17/30958 OR G06F19/3418 OR G06F19/3456 OR G06F2212/1021 OR G06F2212/1024 OR G06F2212/1052 OR G06F2212/6026 OR G06F2212/608 OR G06F3/0482 OR G06F3/04842 OR G06F3/0619 OR G06F3/0644 OR G06F3/0652 OR G06F3/0665 OR G06F3/0689 OR H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S10	9	S7 AND ((H04W4/021 OR H04W4/043 OR H04B1/713).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S11	50	S7 AND ((G06Q10/087 OR G06Q30/06 OR G06Q10/08 OR G06Q40/02 OR G06Q20/202 OR G06Q20/208 OR G06Q30/0601 OR G06Q20/042 OR G06Q50/22 OR G06Q50/24 OR G06Q30/0611 OR G06Q10/10 OR G06Q30/0207 OR G06Q30/0621 OR G06Q30/0641 OR G06Q40/12 OR G06Q10/083 OR G06Q20/10 OR G06Q30/01 OR G06Q30/0203 OR G06Q30/0223 OR G06Q30/0239 OR G06Q30/0251 OR G06Q30/0255 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0623 OR G06Q50/01).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46

S12	14	S7 AND ((H04L67/1095 OR H04L47/196 OR H04L61/1582 OR H04L67/06 OR H04L67/10 OR H04L67/1023 OR H04L67/104 OR H04L67/108 OR H04L67/1097 OR H04L67/2842 OR H04L25/0226 OR H04L67/02 OR H04L67/2852).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S13	2	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	USPAT	OR	OFF	2018/07/30 14:08
S14	5	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 14:09
S15	130	(sens$3 RFID tagg$3) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:08
S16	29	(sens$3 RFID tagg$3) same (phone cellular cell mobile pda iphone ipad) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:11
S17	596	(sens$3 RFID tagg$3 link$3 interfac$3) same (phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:19
S18	26	(phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:21
S19	27	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:36
S20	2061	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:37
S21	511	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-	US-PGPUB; USPAT;	OR	OFF	2018/12/07 16:38

		mobile smartmobile) near9 (shopping adj2 cart) same (price item)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S22	249	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S23	33	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:39
S24	4	"20070129077"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:44
S25	3	"20070260710"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:45
S26	403	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) same (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:46
S27	115	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:49
S28	277	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3 (short adj range) RFID) with (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/08 15:53
S29	433	pay near5 function near8 (mobile pda cell cellular phone iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 13:16

S31	6	"20060085297"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:54
S32	22452	(mobile phone cellular iphone) near4 pay$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S33	1065	(mobile phone cellular iphone) near4 pay$3 same shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S34	422	(mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S35	10	(detect$3 sens$3) near10 (mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:57
S36	35	(mobile phone cellular iphone) near4 pay$3 near9 shop$4 near2 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:58
S37	5080	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) same shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S38	2484	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) near9 shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S39	3575	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/12/10 15:01

			DERWENT; IBM_TDB			
S40	220	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item same (shop$4 adj cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:02
S41	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:56
S42	5	((shopping adj cart) near8 (identity number) near6 assign$3) same (phone smart mobile pda cellular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:56
S43	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:59
S44	5	"9474012"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/08 13:24
S45	12155	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:15
S46	1885	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:18
S47	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:18
S48	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:20
S49	7	S48 AND ((G06Q30/06 OR G06Q30/0633 OR G06Q30/0641 OR G06Q10/083 OR G06Q30/0635 OR G06Q10/0836 OR G06Q10/087 OR G06Q20/20 OR G06Q20/343 OR G06Q20/36 OR	USPAT	OR	OFF	2019/04/09 11:21

		G06Q30/02 OR G06Q30/0211 OR G06Q30/0214 OR G06Q30/0222 OR G06Q30/0224 OR G06Q30/0242 OR G06Q30/0261 OR G06Q30/0267 OR G06Q30/0601 OR G06Q30/0623 OR G06Q30/0625).CPC.)				
S50	88	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:22
S51	1	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:09
S52	13	customer same (short adj range) same (check$4 adj out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:12
S53	5	customer same (short adj range) same (check$4 adj out) same (counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:13
S54	13	shopp$3 same (short adj range) same (check$4 adj out) same (counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:14
S55	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/18 12:15
S56	280	shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/10/18 12:19

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S57	52	shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:19
S58	111	(phone iphone mobile PDA cellular) same shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:21
S59	0	(phone iphone mobile PDA cellular) same (shopp$3 adj card) same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:04
S60	1	(phone iphone mobile PDA cellular) same (shopp$3 adj card) same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:04
S61	670	(phone iphone mobile PDA cellular) same (wallet basket cart) same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:07
S62	21	(phone iphone mobile PDA cellular) same (wallet basket cart) same (short adj range) same (purchas$3 near8 store)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:08
S63	6	(phone iphone mobile PDA cellular) same (short adj range) same (wallet basket cart) same (check$3 adj2 out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:10
S64	6	(phone iphone mobile PDA cellular) same (short adj range) same (wallet basket cart (carry$3 near2 structure)) same (check$3 adj2 out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:12
S65	3456	(wallet basket cart (carry$3 near2	US-PGPUB;	OR	OFF	2019/10/18

		structure)) near9 (check$3 adj2 out)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:14
S66	1760	(wallet basket cart (carry$3 near2 structure)) near9 (check$3 adj2 out) same purchas$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:14
S67	254	(wallet basket cart (carry$3 near2 structure)) near9 (check$3 adj2 out) same purchas$3 same pric$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:15
S68	762	sens$3 same carry$3 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:06
S69	4	sens$3 same carry$3 same (short-range (short adj range)) same (purchas$3 buy$3 pay$3) near6 (product merchant merchandise item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:08
S70	21	sensor same (carry$3 basket) same (short-range (short adj range)) same (purchas$3 buy$3 pay$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:10
S71	184	sens$3 near9 carry$3 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:16
S72	192	sens$3 near9 (basket carry$3) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:17
S73	59	2004/0143550	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2019/12/12 15:18

			IBM_TDB			
S74	1	10/324537	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:18
S75	2	sens$3 near9 (basket carry$3) same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:21
S76	310	sens$3 same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:25
S77	4	sens$3 same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3) near9 ((check$ adj out) checkout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:27
S78	71	sens$3 near15 (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:27
S81	117	(sensor sens$3) near15 (shopp$3 buy$3 purchas$3) near8 (store) near9 (mobile celluar portable pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:32
S82	2	11/040847	USPAT	OR	OFF	2019/12/12 16:56
S83	18	11/040847	US-PGPUB; USPAT	OR	OFF	2019/12/12 16:56

12/13/2019 4:46:31 PM
C:\Users\mvu1\Documents\EAST\Workspaces\16012513_Shopping_Cart.wsp

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16012513
Filing Date	2018-06-19
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US4

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20040143550	A1	2004-07-22	Creamer et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	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							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

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]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/251,834, 12/17/2019, pp. 1-14	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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 W. Pederson/	Date (YYYY-MM-DD)	2020-03-19
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.**

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.

Electronic Acknowledgement Receipt	
EFS ID:	38916337
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson/Sage Kruse
Filer Authorized By:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US4
Receipt Date:	19-MAR-2020
Filing Date:	19-JUN-2018
Time Stamp:	16:19:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$120
RAM confirmation Number	E20203IG21057636
Deposit Account	502880
Authorized User	Sage Kruse
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SupplementalIDS1348002US4.pdf	1053266 60a2392cac3477517331cd3b518727a1a1b1fcf9	no	4
Warnings:					
Information:					
2	Non Patent Literature	20191217OAFinalRejection1348002US5.pdf	12934894 6ad05728aac9ecb7a20beec05c8262e629727e88	no	14
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30644 34627fb52b03ce93b1c9de4db5148d0b6f88cfc2	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	14018804		

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.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Patent Application Fee Transmittal					
Application Number:	16012513				
Filing Date:	19-Jun-2018				
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION				
First Named Inventor/Applicant Name:	Peter D. Karabinis				
Filer:	Aaron Wesley Pederson/Sage Kruse				
Attorney Docket Number:	1348.002US4				
Filed as Small Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**120**

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

CPC							
Symbol						**Type**	**Version**
H04W	/	48	/	04		F	2013-01-01
H04W	/	4	/	029		I	2018-02-01
G06Q	/	30	/	0601		I	2013-01-01
H04W	/	4	/	023		I	2013-01-01
H04L	/	67	/	18		I	2013-01-01
H04W	/	4	/	80		I	2018-02-01
H04W	/	76	/	10		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)	16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641	19 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

U.S. Patent and Trademark Office — Part of Paper No.: 20200319

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

INTERNATIONAL CLASSIFICATION					
CLAIMED					
H04W	/	4	/	02	
NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
455	404-407

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
INTERFERENCE	TEXT SEARCHED	404.1	404.2	405	407	

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641	19 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

U.S. Patent and Trademark Office — Part of Paper No.: 20200319

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	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		19		28								
	2	10	11		20		29								
	3	11	12		21		30								
2	4	12	13		22		31								
3	5	13	14		23	7	32								
4	6	14	15		24	8	33								
5	7		16		25	15	34								
6	8		17		26	16	35								
9	9		18		27										

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641 (Primary Examiner)	19 March 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

U.S. Patent and Trademark Office Part of Paper No.: 20200319

Applicant-Initiated Interview Summary	**Application No.** 16/012,513	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA (FITF) Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) MICHAEL T. VU. (3) _____.

(2) Aaron W. Pederson. (4) _____.

Date of Interview: 18 March 2020.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☑ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1,4-9,11-15 and 28-31.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's representative authorized entry of an Examiner's Amendment to incorporate the change all of independent claims 1, 9, and cancel claims 28-31, in order to expedite prosecution of the application in condition for allowance.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

138517 7590 03/26/2020

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: 03/26/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/26/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

138517 7590 03/26/2020

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 EFS-Web or by facsimile to (571) 273-2885, on the date below.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/26/2020

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/SB/122) attached.

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

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

1 _____
2 _____
3 _____

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

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

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

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

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

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

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

138517 7590 03/26/2020

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Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 03/26/2020

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

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

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

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

PTOL-85 (Rev. 02/11)

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	**Application No.** 16/012,513	**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 03/18/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are See Continuation Sheet . 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. 03/18/2020.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

Continuation of 3. The allowed claim(s) is/are: 1,4-9,11-15 and 32-35

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with Aaron W. Pederson on March 18, 2020.

Please amend the applicant as follows:

4. **Claims 1, 4-5, 8-9, 11, and 14 have been amended.**

5. **Claims 16-17, 19-20, and 28-31 have been canceled.**

6. **Claims 32-35 have been newly added.**

Claim 1 (Currently Amended) A method comprising:

receiving, by a smartphone of a customer, an identity of a shopping cart for carrying products for purchase in a store;

establishing a short-range communications link between shopping cart and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in shopping cart; and

in response to said detecting, sending from the shopping cart to the smartphone via the short-range communications link a price associated with the product that is placed in the shopping cart.

Claim 4 (Currently Amended) The method of Claim 1, wherein said detecting is performed by the shopping cart.

Claim 5 (Currently Amended) The method of Claim 1, further comprising:

charging an account associated with the smartphone for the product that has been placed in the shopping cart.

.

Claim 8 (Currently Amended) The method of Claim 1, wherein the method further comprises: detecting by the sensor that the product that had been placed in shopping cart has been removed from the shopping cart; and

sending from the shopping cart to the smartphone via the short-range communications link a command to delete or change information associated with the product.

Claim 9 (Currently Amended) A system that is configured to perform operations comprising:

receiving, by a smartphone of a customer, an identify of a shopping cart for carrying products for purchase in a store;

establishing a short-range communications link between the shopping cart and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in the shopping cart; and

in response to said detecting, sending from the shopping cart to the smartphone via the short-range communications link a price associated with the product that is placed in the shopping cart.

Claim 11 (Currently Amended) The system of Claim 9, wherein said operations further comprise: charging an account associated with the smartphone for the product that has been placed in the shopping cart.

Claim 14 (Currently Amended) The system of Claim 9, wherein said operations further comprise: detecting by the sensor that the product that had been placed in the shopping cart has been removed from the shopping cart; and sending from the shopping cart to the smartphone via the short-range communications link a command to delete or change information associated with the product.

Claim 32 (New) The method of Claim 1, further comprising: enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

Claim 33 (New) The method of Claim 32, wherein the location within the store comprises a check-out location.

Claim 34 (New) The system of Claim 9, wherein said operations further comprise: enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

Claim 35 (New) The system of Claim 34, wherein the location within the store comprises a check-out location.

Allowable Subject Matter

7. **Claims 1, 4-9, 11-15, 32-35** are allowed.

8. The following is an examiner's statement of reasons for allowance:

With respect to claims 1 and 9, the closest prior art of record, Dua (US 2006/0165060) teaches a method comprising:

receiving, by a smartphone of a customer, an identity of a shopping cart for carrying products for purchase in a store;

However, Dua alone or in combination fails teaches or fairly suggest;

establishing a short-range communications link between shopping cart and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in shopping cart; and

in response to said detecting, sending from the shopping cart to the smartphone via the short-range communications link a price associated with the product that is placed in the shopping cart.

Dependent claims 4-8, 11-15, and 32-35 are allowable for the same reason as set forth above.

Conclusion

9. 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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/012,513	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 72/02	03/18/2020	MTV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W 4/50	12/12/2019	MTV

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 Karabinis	03/18/2020	MTV
Assignee: Telcom Ventures	03/18/2020	MTV
Double Patent Checked	03/18/2020	MTV
EAST Searched System	03/18/2020	MTV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
Interference	Text Searched	03/18/2020	MTV

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	sens$3 near9 (detect$3 determin$4) same (bought buy purchas$3 plac$3) same (shopping adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/19 17:10
L2	1	sens$3 near9 (detect$3 determin$4) same (bought buy purchas$3 plac$3) same (shopping adj card) same store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:11
L3	3	("20030158796" | "20040262386" | "20050071234").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/19 17:11
L4	2	1 AND ((G06Q10/087).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/19 17:11
L5	2	1 AND ((G07F9/026).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/19 17:11
L6	252	(sensor sens$3) near15 (shopp$3 buy$3 purchas$3) near8 (store) same (mobile celluar portable pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:12
L7	36	6 AND ((H04W4/029 OR H04W4/80 OR H04W4/02 OR H04W4/70 OR H04W4/12 OR H04W4/18 OR H04W4/21 OR H04W4/50 OR H04W12/06 OR H04W4/023 OR H04W4/16 OR H04W64/00 OR H04W12/001 OR H04W48/16 OR H04W4/021 OR H04W4/024 OR H04W4/026 OR H04W4/06 OR H04W4/60 OR H04W8/22).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:13
L8	0	(sens$3 RFID tagg$3 (short adj range)) and (phone cellular cell mobile	US-PGPUB; USPAT;	OR	OFF	2020/03/19 17:17

		pda iphone ipad) and (identity near6 (shopping adj card)) and ((charg$3 pric$3 paid pay bought checkout check-out) and (plac$3 put) near9 (shopping adj card)).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L9	1	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same sens$3 same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:17
L10	1365474	(455/$.ccls. 370/$.ccls. 379/$.ccls. 705/$.ccls. 709/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:30
L11	49	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same sens$3 same (RFID Wifi Wi-fi (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:31
L12	8	10 and 11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:32
L13	1	12 AND ((H04W4/02 OR H04W4/024 OR H04W4/026 OR H04W4/029 OR H04W4/18).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:32
L14	8	12 AND ((G06Q30/02 OR G06Q20/202 OR G06Q30/0207 OR G06Q30/0214 OR G06Q30/0223 OR G06Q30/0226 OR G06Q30/0234 OR G06Q30/0238 OR G06Q30/0239 OR G06Q30/0251 OR G06Q30/0253 OR G06Q30/0267 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0277 OR G06Q30/0601 OR G06Q30/0633 OR G06Q30/0639 OR G06Q90/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/19 17:32
L15	3	("7830259" | "7937723" | "8172096").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/19 17:32
S1	0	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:14
S2	55	sens$3 near9 (detect$3 determin$4)	US-PGPUB;	OR	OFF	2018/07/26

		near9 displac$3 same store	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:16
S3	0	sens$3 near9 (detect$3 determin$4) near9 displac$3 same store and (RFID tagg$3 barcode bar-code)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:17
S4	1033	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:19
S5	8	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same shopping near5 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:22
S6	10	(detect$3 determin$4) same (RFID tagg$3) same (miss$3 displac$3) same (shopping adj3 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/26 18:27
S7	97	(detect$3 determin$4) near9 (miss$3 displac$3) near9 item same (warehouse store building)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:40
S8	5	S7 AND ((H04W4/021 OR H04W4/043).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45
S9	50	S7 AND ((G06F12/1027 OR G06F12/1054 OR G06F17/30132 OR G06F2212/682 OR G06F17/30174 OR G06F17/30575 OR G06F17/30017 OR G06F17/30067 OR G06F17/30215 OR G06F21/50 OR G06F21/88 OR G06F2221/2101 OR G06F2221/2111 OR G06F19/00 OR G06F12/0842 OR G06F12/0864 OR G06F12/121 OR G06F9/30043 OR G06F9/3824 OR G06F12/0804 OR G06F12/082 OR G06F12/0831 OR G06F17/30011 OR G06F17/30023 OR G06F17/30115 OR G06F17/30165 OR G06F17/30233 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:45

		G06F17/30345 OR G06F17/30625 OR G06F17/30631 OR G06F2212/1016 OR G06F2212/604 OR G06F3/14 OR G06F12/0848 OR G06F12/0862 OR G06F12/0866 OR G06F12/0875 OR G06F12/0895 OR G06F12/10 OR G06F12/1018 OR G06F12/12 OR G06F12/1408 OR G06F17/3002 OR G06F17/30035 OR G06F17/30389 OR G06F17/30424 OR G06F17/30442 OR G06F17/30451 OR G06F17/30457 OR G06F17/30477 OR G06F17/30483 OR G06F17/30498 OR G06F17/30516 OR G06F17/30548 OR G06F17/30551 OR G06F17/30554 OR G06F17/30557 OR G06F17/30578 OR G06F17/30616 OR G06F17/30864 OR G06F17/30958 OR G06F19/3418 OR G06F19/3456 OR G06F2212/1021 OR G06F2212/1024 OR G06F2212/1052 OR G06F2212/6026 OR G06F2212/608 OR G06F3/0482 OR G06F3/04842 OR G06F3/0619 OR G06F3/0644 OR G06F3/0652 OR G06F3/0665 OR G06F3/0689 OR H04W4/021 OR H04W4/043).CPC.)				
S10	9	S7 AND ((H04W4/021 OR H04W4/043 OR H04B1/713).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S11	50	S7 AND ((G06Q10/087 OR G06Q30/06 OR G06Q10/08 OR G06Q40/02 OR G06Q20/202 OR G06Q20/208 OR G06Q30/0601 OR G06Q20/042 OR G06Q50/22 OR G06Q50/24 OR G06Q30/0611 OR G06Q10/10 OR G06Q30/0207 OR G06Q30/0621 OR G06Q30/0641 OR G06Q40/12 OR G06Q10/083 OR G06Q20/10 OR G06Q30/01 OR G06Q30/0203 OR G06Q30/0223 OR G06Q30/0239 OR G06Q30/0251 OR G06Q30/0255 OR G06Q30/0268 OR G06Q30/0276 OR G06Q30/0623 OR G06Q50/01).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S12	14	S7 AND ((H04L67/1095 OR H04L47/196 OR H04L61/1582 OR H04L67/06 OR H04L67/10 OR H04L67/1023 OR H04L67/104 OR H04L67/108 OR H04L67/1097 OR H04L67/2842 OR H04L25/0226 OR H04L67/02 OR H04L67/2852).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/07/30 12:46
S13	2	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	USPAT	OR	OFF	2018/07/30 14:08
S14	5	(sens$3 RFID tagg$3) near8 (item merchandise) near8 (displac$3 miss$3) near9 store	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/07/30 14:09

			EPO; JPO; DERWENT; IBM_TDB			
S15	130	(sens$3 RFID tagg$3) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:08
S16	29	(sens$3 RFID tagg$3) same (phone cellular cell mobile pda iphone ipad) same ((charg$3 pric$3) near6 (item merchandise)) near8 (cart person people buyer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:11
S17	596	(sens$3 RFID tagg$3 link$3 interfac$3) same (phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:19
S18	26	(phone cellular cell mobile pda iphone ipad) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:21
S19	27	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (check$3 track$3) near6 (pric$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:36
S20	2061	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:37
S21	511	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S22	249	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:38
S23	33	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-	US-PGPUB; USPAT;	OR	OFF	2018/12/07 16:39

		mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S24	4	"20070129077"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:44
S25	3	"20070260710"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:45
S26	403	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) same (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:46
S27	115	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3) near9 (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/07 16:49
S28	277	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near10 (link$4 interfac$3 (short adj range) RFID) with (shopping adj2 cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/08 15:53
S29	433	pay near5 function near8 (mobile pda cell cellular phone iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 13:16
S31	6	"20060085297"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:54
S32	22452	(mobile phone cellular iphone) near4 pay$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56

S33	1065	(mobile phone cellular iphone) near4 pay$3 same shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S34	422	(mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:56
S35	10	(detect$3 sens$3) near10 (mobile phone cellular iphone) near4 pay$3 near9 shop$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:57
S36	35	(mobile phone cellular iphone) near4 pay$3 near9 shop$4 near2 cart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 14:58
S37	5080	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) same shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S38	2484	(mobile phone cellular iphone pda) near9 (pay$3 purchas$3) near9 shopping	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:00
S39	3575	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:01
S40	220	(mobile phone cellular iphone pda) near9 (pay$3 paid purchas$3) near9 item same (shop$4 adj cart)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/10 15:02
S41	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2019/04/05 14:56

			DERWENT; IBM_TDB			
S42	5	((shopping adj cart) near8 (identity number) near6 assign$3) same (phone smart mobile pda cellular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:56
S43	20	((shopping adj cart) near8 (identity number) near6 assign$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/05 14:59
S44	5	"9474012"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/04/08 13:24
S45	12155	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:15
S46	1885	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone)	USPAT	OR	OFF	2019/04/09 11:18
S47	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:18
S48	7	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) with (item product) near10 (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:20
S49	7	S48 AND ((G06Q30/06 OR G06Q30/0633 OR G06Q30/0641 OR G06Q10/083 OR G06Q30/0635 OR G06Q10/0836 OR G06Q10/087 OR G06Q20/20 OR G06Q20/343 OR G06Q20/36 OR G06Q30/02 OR G06Q30/0211 OR G06Q30/0214 OR G06Q30/0222 OR G06Q30/0224 OR G06Q30/0242 OR G06Q30/0261 OR G06Q30/0267 OR G06Q30/0601 OR G06Q30/0623 OR G06Q30/0625).CPC.)	USPAT	OR	OFF	2019/04/09 11:21
S50	88	(delet$3 modif$3 withdraw$3 deduct$3 chang$3) same (item product) same (mobile phone portable pda iphone smartphone smart-phone) same (shopp$3 adj2 cart)	USPAT	OR	OFF	2019/04/09 11:22

S51	1	16/012513	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:09
S52	13	customer same (short adj range) same (check$4 adj out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:12
S53	5	customer same (short adj range) same (check$4 adj out) same (counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:13
S54	13	shopp$3 same (short adj range) same (check$4 adj out) same (counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:14
S55	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/18 12:15
S56	280	shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:19
S57	52	shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:19

S58	111	(phone iphone mobile PDA cellular) same shopp$3 same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 12:21
S59	0	(phone iphone mobile PDA cellular) same (shopp$3 adj card) same (short adj range) same ((check$4 adj out) counter purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:04
S60	1	(phone iphone mobile PDA cellular) same (shopp$3 adj card) same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:04
S61	670	(phone iphone mobile PDA cellular) same (wallet basket cart) same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:07
S62	21	(phone iphone mobile PDA cellular) same (wallet basket cart) same (short adj range) same (purchas$3 near8 store)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:08
S63	6	(phone iphone mobile PDA cellular) same (short adj range) same (wallet basket cart) same (check$3 adj2 out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:10
S64	6	(phone iphone mobile PDA cellular) same (short adj range) same (wallet basket cart (carry$3 near2 structure)) same (check$3 adj2 out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:12
S65	3456	(wallet basket cart (carry$3 near2 structure)) near9 (check$3 adj2 out)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:14
S66	1760	(wallet basket cart (carry$3 near2 structure)) near9 (check$3 adj2 out) same purchas$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2019/10/18 13:14

			DERWENT; IBM_TDB			
S67	254	(wallet basket cart (carry$3 near2 structure)) near9 (check$3 adj2 out) same purchas$3 same pric$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/10/18 13:15
S68	762	sens$3 same carry$3 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:06
S69	4	sens$3 same carry$3 same (short-range (short adj range)) same (purchas$3 buy$3 pay$3) near6 (product merchant merchandise item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:08
S70	21	sensor same (carry$3 basket) same (short-range (short adj range)) same (purchas$3 buy$3 pay$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:10
S71	184	sens$3 near9 carry$3 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:16
S72	192	sens$3 near9 (basket carry$3) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:17
S73	59	2004/0143550	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:18
S74	1	10/324537	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:18
S75	2	sens$3 near9 (basket carry$3) same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/12/12 15:21

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S76	310	sens$3 same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:25
S77	4	sens$3 same (short-range (short adj range)) same (shopp$3 buy$3 purchas$3) near9 ((check$ adj out) checkout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:27
S78	71	sens$3 near15 (short-range (short adj range)) same (shopp$3 buy$3 purchas$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/12 15:27
S81	117	(sensor sens$3) near15 (shopp$3 buy$3 purchas$3) near8 (store) near9 (mobile celluar portable pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/12 15:32
S82	2	11/040847	USPAT	OR	OFF	2019/12/12 16:56
S83	18	11/040847	US-PGPUB; USPAT	OR	OFF	2019/12/12 16:56
S85	7393	H04W48/04.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
S86	117	(sensor sens$3) near15 (shopp$3 buy$3 purchas$3) near8 (store) near9 (mobile celluar portable pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
S87	0	S85 and S86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:42
S88	86	S86 AND ((G06Q30/02 OR G06Q30/0201 OR G06Q10/10 OR G06Q20/1235 OR G06Q30/06 OR	US-PGPUB; USPAT; USOCR;	OR	ON	2019/12/13 16:43

		G06Q30/0269 OR G06Q10/087 OR G06Q50/01 OR G06Q30/0261 OR G06Q30/0265 OR G06Q30/0631 OR G06Q30/0267 OR G06Q30/0241 OR G06Q30/0255 OR G06Q20/208 OR G06Q30/0202 OR G06Q30/0601 OR G06Q30/0633 OR G06Q30/0635 OR G06Q10/08 OR G06Q10/0838 OR G06Q20/12 OR G06Q30/0203 OR G06Q30/0204 OR G06Q30/0207 OR G06Q30/0251 OR G06Q30/0281 OR G06Q10/06 OR G06Q10/06393 OR G06Q10/101 OR G06Q20/123 OR G06Q20/18 OR G06Q20/202 OR G06Q20/322 OR G06Q20/3223 OR G06Q20/327 OR G06Q20/38 OR G06Q20/3829 OR G06Q20/42 OR G06Q2220/00 OR G06Q30/016 OR G06Q30/0211 OR G06Q30/0226 OR G06Q30/0239 OR G06Q30/0259 OR G06Q30/0621 OR G06Q30/0625 OR G06Q30/0639 OR G06Q30/0641 OR G06Q30/0643).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S89	39	S86 AND ((G06F16/9535 OR G06F16/273 OR G06F16/3344 OR G06F16/4387 OR G06F16/4393 OR G06F16/637 OR G06F16/639 OR G06F21/10 OR G06F21/6236 OR G06F2213/0038 OR G06F2216/01 OR G06F2221/2113 OR G06F2221/2137 OR G06F3/14 OR G06F16/24 OR G06F16/24575 OR G06F16/90328 OR G06F17/27 OR G06F3/011 OR G06F3/013 OR G06F8/00 OR G06F16/9537 OR G06F17/5054 OR G06F1/3234 OR G06F21/57 OR G06F21/602 OR G06F21/74 OR G06F21/85 OR G06F2217/78 OR G06F3/0482 OR G06F3/0484 OR G06F3/0485).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
S90	9	S86 AND ((H04M2203/2044 OR H04M2203/554 OR H04M2203/655 OR H04M2207/18 OR H04M3/42374 OR H04M1/0264).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
S91	25	S86 AND ((H04W4/16 OR H04W4/029 OR H04W4/80 OR H04W4/21 OR H04W4/50 OR H04W4/70 OR H04W4/12 OR H04W4/02 OR H04W4/023 OR H04W4/60 OR H04W64/00 OR H04W48/16 OR H04W4/021 OR H04W4/06 OR H04W4/18 OR H04W64/006 OR H04W8/22).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:43
S92	109	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) near9 (detect$3 track$3 check$3) near6 (price item)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:44

S93	13	S92 AND ((H04W4/029 OR H04W12/06 OR H04W4/023 OR H04W12/00508 OR H04W4/02 OR H04W4/024 OR H04W4/24 OR H04W4/33).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/13 16:44
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S97	290	(phone cellular cell mobile pda iphone ipad smartphone smart-phone smart-mobile smartmobile) near9 (shopping adj2 cart) same sens$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/17 13:30
S98	116	S97 AND ((H04W4/029 OR H04W4/021 OR H04W4/02 OR H04W4/30 OR H04W4/33 OR H04W4/80 OR H04W4/40 OR H04W4/023 OR H04W4/024 OR H04W4/026 OR H04W4/35 OR H04W4/025 OR H04W4/18 OR H04W4/20 OR H04W4/23 OR H04W4/38 OR H04W4/70).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/17 13:31
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S101	27	("20030215110" | "20040111320" | "20040128514" | "20080104227" | "20080242275" | "20090262975" | "20100114344" | "20100134278" | "20100199296" | "20100280826" | "20100322035" | "20110019999" | "20110028160" | "20110029359" | "20110029360" | "20110029362" | "20110029364" | "20110029370" | "20110054890" | "20110150240" | "20110161076" | "20120165046" | "6356905" | "7739705" | "8660581" | "9064398" | "9270807").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/17 13:34
S102	487	("1774653" | "20010042024" | "20020060542" | "20020095342" | "20020154974" | "20020156551" | "20020165638" | "20020165643" | "20020165790" | "20020174021" | "20030028284" | "20030152679" | "20030170357" | "20030185948" | "20040068348" | "20040081729" | "20040093650" | "20040098167" | "20040117063" | "20040146602" | "20040216339" | "20040217166" | "20040221790" | "20040249497" | "20050008463" | "20050047895" | "20050072651" | "20050080520" | "20050104547" | "20050149414" | "20050177446" | "20050216126" | "20050230472" | "20050238465" | "20060147087" | "20060163350" | "20060178777" | "20060206235" | "20060220809" | "20060221072" | "20060235570" | "20060241827" | "20060244588" | "20060279421" | "20060293810" | "20070005179" | "20070017855" | "20070061210" | "20070125727" | "20070150368" | "20070284442" | "20070293978" | "20080031491" | "20080041644" | "20080075566" | "20080075568" | "20080075569" | "20080077511" | "20080105445" | "20080140253" | "20080154720" | "20080201227" | "20080226129" | "20080267759" | "20080281515" | "20080281664" |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/17 13:34

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	16/012,513
Applicant	:	Telcom Ventures LLC
Filed	:	June 19, 2018
Art Unit	:	2641
Examiner	:	Michael T VU
Confirmation No.:		1019
Docket No.	:	1348.002US4
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

AMENDMENT UNDER 37 C.F.R. 1.312

Mail Stop: Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant acknowledges receipt of a Notice of Allowance in the above-identified patent application and respectfully requests the following amendment be entered prior to the issuance of a patent in this matter, please consider the following:

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

Remarks, beginning on page 5 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.

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A method comprising:

receiving, by a smartphone of a customer, an identity of a shopping cart for carrying products for purchase in a store;

establishing a short-range communications link between the shopping cart and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in the shopping cart; and

in response to said detecting, sending from the shopping cart to the smartphone via the short-range communications link a price associated with the product that is placed in the shopping cart.

2. (Cancelled)

3. (Cancelled)

4. (Previously Presented) The method of Claim 1, wherein said detecting is performed by the shopping cart.

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

charging an account associated with the smartphone for the product that has been placed in the shopping cart.

6. (Previously Presented) The method of Claim 5, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

7. (Original) The method of Claim 1, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

8. (Currently Amended) The method of Claim 1, wherein the method further comprises:

detecting by the sensor that the product that had been placed in the shopping cart has been removed from the shopping cart; and

sending from the shopping cart to the smartphone via the short-range communications link a command to delete or change information associated with the product.

9. (Previously Presented) A system that is configured to perform operations comprising:

receiving, by a smartphone of a customer, an identify of a shopping cart for carrying products for purchase in a store;

establishing a short-range communications link between the shopping cart and the smartphone responsive to receiving said identity;

detecting by a sensor that a product for purchase has been placed in the shopping cart; and

in response to said detecting, sending from the shopping cart to the smartphone via the short-range communications link a price associated with the product that is placed in the shopping cart.

10. (Cancelled)

11. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

charging an account associated with the smartphone for the product that has been placed in the shopping cart.

12. (Previously Presented) The system of Claim 11, wherein said charging an account associated with the smartphone is enabled when the smartphone is proximate a specific location within the store.

13. (Previously Presented) The system of Claim 9, wherein said detecting comprises using a Radio Frequency tagging technology, a bar-code technology and/or an image recognition technology.

14. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

detecting by the sensor that the product that had been placed in the shopping cart has been removed from the shopping cart; and

sending from the shopping cart to the smartphone via the short-range communications link a command to delete or change information associated with the product.

15. (Previously Presented) The system of Claim 9, wherein said detecting comprises detecting a manufacturer associated with the item.

16. – 31. (Cancelled)

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

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

33. (Previously Presented) The method of Claim 32, wherein the location within the store comprises a check-out location.

34. (Previously Presented) The system of Claim 9, wherein said operations further comprise:

enabling a pay function of the smartphone in response to detecting a short-range signal transmitted from a location within the store.

35. (Previously Presented) The system of Claim 34, wherein the location within the store comprises a check-out location.

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

138517 7590 03/26/2020
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 EFS-Web or by facsimile to (571) 273-2885, on the date below.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	06/19/2018	Peter D. Karabinis	1348.002US4	1019

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/26/2020

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/SB/122) attached.

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

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

1 Carlson, Caspers, Vandenburgh, & Lindquist, P.A.
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: Telcom Ventures, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Miami, Florida

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

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

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 502880

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /Aaron W. Pederson/ Date April 13, 2020

Typed or printed name Aaron W. Pederson Registration No. 58607

Electronic Acknowledgement Receipt	
EFS ID:	39138464
Application Number:	16012513
International Application Number:	
Confirmation Number:	1019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson/Sage Kruse
Filer Authorized By:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US4
Receipt Date:	13-APR-2020
Filing Date:	19-JUN-2018
Time Stamp:	13:39:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$500
RAM confirmation Number	E20204CD40123118
Deposit Account	502880
Authorized User	Sage Kruse
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		312Amendment1348002US4.pdf	77098 7c53f0852d6eefa70c9cc3d2575ef65713951e65	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment after Notice of Allowance (Rule 312)	1	1
	Claims	2	4
	Applicant Arguments/Remarks Made in an Amendment	5	5

Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	IssueFeeTransmittal1348002US4.pdf	1598167 2759f1624d90be215f556d310678c512c0d64c45	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30571 e1a238efdf112e69c5e60667fa9545fedc48e004	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1705836		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

REMARKS

Claims 1, 4-9, 11-15, and 32-35 were pending and have been allowed. A Notice of Allowance was mailed on March 26, 2020. With this paper, claims 1 and 8 are amended to correct grammatical and typographical errors. These amendments do not affect the substance of the examination and do not require a new search. These amendments do not contain new matter.

This amendment is submitted contemporaneous with the payment of the issue fee. Entry of this amendment is earnestly solicited.

SUMMARY

For the reasons set out above, Applicant respectfully submits that the application is in condition for grant. If anything further is necessary to place the application in better condition for grant, the Office is asked to contact Applicant's undersigned representative at the telephone number below.

Customer No. 138517

Date: April 13, 2020

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

Respectfully submitted,

/Aaron W. Pederson/

Aaron Pederson
Registration No. 58,607

Tel no. (612) 436-9609

Electronic Patent Application Fee Transmittal

Application Number:	16012513
Filing Date:	19-Jun-2018
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Aaron Wesley Pederson/Sage Kruse
Attorney Docket Number:	1348.002US4

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

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

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20040143550	A1	2004-07-22	Creamer et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

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							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

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]

EFS Web 2.1.18

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	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/251,834, 12/17/2019, pp. 1-14	

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	04/16/2020

*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/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16012513
	Filing Date	2018-06-19
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US4

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 W. Pederson/	Date (YYYY-MM-DD)	2020-03-19
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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

OK TO ENTER: /M.T.V/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	16/012,513
Applicant	:	Telcom Ventures LLC
Filed	:	June 19, 2018
Art Unit	:	2641
Examiner	:	Michael T VU
Confirmation No.:		1019
Docket No.	:	1348.002US4
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

AMENDMENT UNDER 37 C.F.R. 1.312

Mail Stop: Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant acknowledges receipt of a Notice of Allowance in the above-identified patent application and respectfully requests the following amendment be entered prior to the issuance of a patent in this matter, please consider the following:

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

Remarks, beginning on page 5 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.

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/012,513	05/19/2020	10660015	1348.002US4	1019

138517 7590 04/29/2020

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.

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

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

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

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

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

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

Peter D. Karabinis, Cary, NC;
Telcom Ventures, LLC, Miami, FL;
Rajendra Singh, Indian Creek Village, 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.

IR103 (Rev. 10/09)