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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356

CONFIRMATION NO. 1092

PUBLICATION NOTICE



OC000000111947516

57838
 SHUMAKER LOOP & KENDRICK, LLP
 101 E. KENNEDY
 SUITE 2800
 TAMPA, FL 33602

Title: TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

Publication No. US-2019-0318368-A1

Publication Date: 10/17/2019

NOTICE OF PUBLICATION OF APPLICATION

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

The publication may be accessed through the USPTO's 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 Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

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Alexandria, Virginia 22313-1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/456,490	10/01/2019	10430811	A12875-088356	1092

57838 7590 09/11/2019
SHUMAKER LOOP & KENDRICK, LLP
101 E. KENNEDY
SUITE 2800
TAMPA, FL 33602

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):

Steven A. Roberts, Tampa, FL;
AFTERWORDS, INC., Tampa, FL;
Drew Peloubet, Tampa, FL;

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356

57838
SHUMAKER LOOP & KENDRICK, LLP
101 E. KENNEDY
SUITE 2800
TAMPA, FL 33602

CONFIRMATION NO. 1092
POA ACCEPTANCE LETTER



Date Mailed: 08/26/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/21/2019.

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

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

/dtdinh/

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)

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.

57838 7590 07/25/2019
SHUMAKER LOOP & KENDRICK, LLP
101 E. KENNEDY
SUITE 2800
TAMPA, FL 33602

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.
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356	1092

TITLE OF INVENTION: TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

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	10/25/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
SINGH, GURKANWALJIT	3683	705-007290

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 Shumaker, Loop & Kendrick, LLP

2 Jeffrey B. Fabian

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)

AFTERWORDS, INC.

Tampa, FL

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. 57838

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 /Jeffrey B. Fabian/

Date August 21, 2019

Typed or printed name Jeffrey B. Fabian

Registration No. 70,164

Electronic Patent Application Fee Transmittal

Application Number:	16456490			
Filing Date:	28-Jun-2019			
Title of Invention:	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM			
First Named Inventor/Applicant Name:	Steven A. Roberts			
Filer:	Jeffrey Bruce Fabian/Charise Christianson			
Attorney Docket Number:	A12875-088356			
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

Electronic Acknowledgement Receipt

EFS ID:	36943274
Application Number:	16456490
International Application Number:	
Confirmation Number:	1092
Title of Invention:	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM
First Named Inventor/Applicant Name:	Steven A. Roberts
Customer Number:	57838
Filer:	Jeffrey Bruce Fabian/Charise Christianson
Filer Authorized By:	Jeffrey Bruce Fabian
Attorney Docket Number:	A12875-088356
Receipt Date:	21-AUG-2019
Filing Date:	28-JUN-2019
Time Stamp:	18:18:18
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	E20198KI18427738
Deposit Account	
Authorized User	

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

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Fees_Transmittal_Afterwords_1nc.pdf	106555	no	1
			24d79a6aff91e015d1ac0931bb7804b62364abc5		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30383	no	2
			1e36c50670138818e0532b1bbd25c4fea2d0a3b3		

Warnings:

Information:

Total Files Size (in bytes):			136938
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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: PA..

Document Description: Power of Attorney

PTO/AIA/82B (07-13)

Approved for use through 01/31/2018. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY BY APPLICANTI hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date
16/456,490	6-28-2019

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

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

Number: 57838

OR

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

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

- ☒ The address associated with the above-mentioned Customer Number

OR

- ☐ The address associated with Customer Number:

OR

- ☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

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

AFTERWORDS, INC.

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

SIGNATURE of Applicant for Patent

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

Signature

Date (Optional)

Name

Title

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

- ☐ Total of 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.

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.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention****TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM**

As the below named inventor, I hereby declare that:

This declaration
is directed to:

The attached application, or

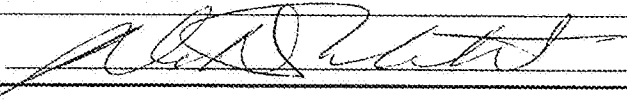
United States application or PCT international application number 16/456,490filed on June 28, 2019

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

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

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTORInventor: Drew PeloubetDate (Optional): 8/14/19Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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.

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

Title of
Invention

TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number 16/456,490

filed on June 28, 2019

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

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

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

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Steven A. Roberts

Date (Optional): _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt

EFS ID:	36941587
Application Number:	16456490
International Application Number:	
Confirmation Number:	1092
Title of Invention:	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM
First Named Inventor/Applicant Name:	Steven A. Roberts
Customer Number:	57838
Filer:	Jeffrey Bruce Fabian/Charise Christianson
Filer Authorized By:	Jeffrey Bruce Fabian
Attorney Docket Number:	A12875-088356
Receipt Date:	21-AUG-2019
Filing Date:	28-JUN-2019
Time Stamp:	16:41:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA.PDF	1059701	no	1
			87e16ffa88addf330f114b0b4524d2ff1e648c2a		

Warnings:

Information:					
2	Oath or Declaration filed	OATH_DP.PDF	889181	no	1
			b325033911a2876c92c7b3c7a8617c2b4ab0e926		
Warnings:					
Information:					
3	Oath or Declaration filed	OATH_SR.PDF	852779	no	1
			b91ea6ddcc25e60567b99af7298bec0c369fbdad0		
Warnings:					
Information:					
Total Files Size (in bytes):			2801661		
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.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

57838 7590 07/25/2019
SHUMAKER LOOP & KENDRICK, LLP
101 E. KENNEDY
SUITE 2800
TAMPA, FL 33602

EXAMINER

SINGH, GURKANWALJIT

ART UNIT

PAPER NUMBER

3683

DATE MAILED: 07/25/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356	1092

TITLE OF INVENTION: TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

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	10/25/2019

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.

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)

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.

57838 7590 07/25/2019
SHUMAKER LOOP & KENDRICK, LLP
 101 E. KENNEDY
 SUITE 2800
 TAMPA, FL 33602

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.
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356	1092

TITLE OF INVENTION: TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

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	10/25/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
SINGH, GURKANWALJIT	3683	705-007290

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

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

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

2. For printing on the patent front page, list

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

1 _____

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

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

(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. _____



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/456,490	06/28/2019	Steven A. Roberts	A12875-088356	1092
57838	7590	07/25/2019	EXAMINER	
SHUMAKER LOOP & KENDRICK, LLP			SINGH, GURKANWALJIT	
101 E. KENNEDY			ART UNIT	
SUITE 2800			PAPER NUMBER	
TAMPA, FL 33602			3683	

DATE MAILED: 07/25/2019

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b); (2) 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. 16/456,490	Applicant(s) Roberts et al.	
	Examiner GURKANWALJIT SINGH	Art Unit 3683	AIA (FITF) Status Yes

-- 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 Applicant's claims filed 06/28/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-19. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: _____.

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

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

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

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

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____. 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
---	--

/GURKANWALJIT SINGH/
Primary Examiner, Art Unit 3683

Notice of Pre-AIA or AIA Status

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

DETAILED ACTION

1. The following Office action is in response to communication filed on June 28, 2019.
Claims 1-19 are currently pending and have been allowed.

Allowable Subject Matter

2. Claims 1-19 are allowed.

Reasons for allowance

3. As per the independent claims the following is an examiner's statement of reasons for allowance: The prior art of record most closely resembling Applicant's claimed invention are Proud et al., (US 2010/0070376), Riordan et al., (US 6,078,891), and Tillman (US 2003/0216981).

Proud discloses and automated system for facilitating sales in dynamically-changing mobile retail environments includes a vendor/supplier connector module, a carrier connector module, a provisioning module, and a point-of-sale (POS) customization module. The vendor/supplier connector module facilitates automated exchange of product data with a plurality of different vendors or suppliers of products or services. The carrier connector module facilitates automated exchange of transportation data with a plurality of different carriers, with the transportation data corresponding to specific mobile retail environments. The provisioning

module automatically determines, based on the product data and on the transportation data, products or services corresponding to a specific mobile retail environment. The POS customization module automatically generates re-configuration data for each of a plurality of POS interfaces. The re-configuration data limits each of the plurality of POS interfaces to facilitating sales of only the subset of the set of products or services that corresponds to a specific mobile retail environment.

Riordan provides a system and method for the collection of marketing data simultaneously captures at a point-of-sale all financial and non-financial data pertaining to a specific consumer transaction. An electronic invoice is constructed from the captured data and transmitted to a credit authorization location via a communication link necessarily established to transmit a credit authorization request for the transaction. The electronic invoice contains line item data for each item purchased as part of the transaction. The invoice is organized around the identification number of the payment vehicle employed by the customer to pay for the transaction, thus linking the purchasing information contained in the invoice to a particular consumer. The credit authorization location receives the transmitted electronic invoice and forwards the invoice to a data warehouse, which may be located in a location remote from the credit authorization location. The data warehouse comprises a plurality of related data structures for storing the received data. The related data structures facilitate simple and flexible analysis and searching of the collected market data.

Tillman discloses one or more networked computers (18) receives input from a customer (12) specifying two or more vendors having vendor web sites (14) from which to purchase goods or services during an online shopping session, receives input from the two or more vendors indicating that the customer has purchased goods or services at the two or more vendor web sites during the online shopping session, and outputs a single online receipt (32) to the customer reflecting all goods or services purchased at the two or more vendor web sites during the online shopping session. Sales tax may be collected from the customer for goods or

services purchased during the online shopping session and electronically disbursed tax to one or more tax authorities. Payment for the goods or services purchased during the online shopping session may be electronically collected and disbursed to vendors. Credits for one or more purchased goods or services may also be disbursed. Reports may be generated based on a plurality of data collected during POS transactions.

However, the combination of Proud, Riordan, and Tillman fails to teach or suggest the limitations, of the independent claims, of implementing transaction-specific surveys comprising:

- (a) a point-of-sale interface used in conducting a commercial transaction between a consumer and a vendor, the point-of-sale interface being configured to record transaction data relating to the commercial transaction wherein the transaction data comprises at least one purchase detail identifier and a survey token;
- (b) a survey server computing device configured to receive and store the transaction data generated by the point-of-sale interface, wherein:
 - (i) the survey server computing device comprises (A) a vendor database storing a plurality of purchase detail identifiers, and (B) a campaign data structure having survey question data and a configurable Condition that is satisfied by the detection of a given purchase detail identifier; and wherein
 - (ii) the survey server computing device is configured to perform the operations comprising (A) receiving a survey token, (B) retrieving the transaction data having the stored survey token corresponding to the received survey token, (C) determining whether the transaction data includes the given purchase detail identifier such that the configurable Condition is satisfied, and if the configurable Condition is satisfied, generating a Survey Question using the given survey question data and the purchase detail identifier, and (D) generating a Survey Module comprising software code for displaying the at least one Survey Question;
- (c) a vendor survey interface configured to perform the operations comprising: (i) transmitting the survey token to the survey server computing device; (ii) receiving from the survey server computing device the Survey Module, (iii) generating a graphical user interface on a display screen; (iv) running the Survey

Module to display the at least one Survey Question as an integrated component within the graphical user interface; (v) generating a Respondent Header based on user-generated inputs in response to the at least one Survey Question; and (vi) transmitting the Respondent Header to the survey server computing device.

As per the dependent claims, these claims depend on the allowed independent claims and incorporate the limitations thereof, and are therefore allowed for at least the same rationale as applied to the independent claims, and incorporated herein.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GURKANWALJIT SINGH whose telephone number is (571)270-5392. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached on 571-272-6724. 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

Art Unit: 3683

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.

/GURKANWALJIT SINGH/

Primary Examiner, Art Unit 3683

<i>Notice of References Cited</i>	Application/Control No. 16/456,490		Applicant(s)/Patent Under Reexamination Roberts et al.	
	Examiner GURKANWALJIT SINGH		Art Unit 3683	Page 1 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100070376-A1	03-2010	Proud; Brett	G06Q20/20	705/21
*	B	US-8328094-B2	12-2012	Proud; Brett	G06Q20/20	235/383
*	C	US-20110196754-A1	08-2011	Proud; Brett	G06Q20/20	705/16
*	D	US-20030018550-A1	01-2003	Rotman, Frank Lewis	G06Q30/02	705/35
*	E	US-20070100728-A1	05-2007	Rotman; Frank Lewis	G06Q30/02	705/36R
*	F	US-20100076813-A1	03-2010	Ghosh; Debashis	G06Q30/02	705/7.34
*	G	US-8417561-B2	04-2013	Ghosh; Debashis	G06Q30/0205	705/7.34
*	H	US-20090006151-A1	01-2009	Zarghami; Jay	G06Q10/06375	705/7.31
*	I	US-20070050229-A1	03-2007	Tatro; Edward	G06Q10/087	705/15
*	J	US-7937286-B2	05-2011	Newman; Alan B.	G06Q30/02	705/7.31
*	K	US-8027891-B2	09-2011	Preston; Patricia	G06Q40/00	705/30
*	L	US-8255268-B2	08-2012	Rane; Rajendra R.	G06Q30/0202	705/7.33
*	M	US-20060151598-A1	07-2006	Chen; Yen-Fu	G06Q20/20	235/380

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.

<i>Notice of References Cited</i>	Application/Control No. 16/456,490		Applicant(s)/Patent Under Reexamination Roberts et al.	
	Examiner GURKANWALJIT SINGH		Art Unit 3683	Page 2 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7792697-B2	09-2010	Bhagchandani; Puneet B.	G06Q30/02	705/14.49
*	B	US-7328169-B2	02-2008	Temares; Mark E.	G06Q30/02	705/14.25
*	C	US-20020026348-A1	02-2002	Fowler, Malcolm R.	G06Q30/02	705/14.11
*	D	US-20070055597-A1	03-2007	Patel; Karteek	G06Q30/0206	705/35
*	E	US-6839682-B1	01-2005	Blume; Matthias	G06Q30/02	705/14.4
*	F	US-6078891-A	06-2000	Riordan; John	G06Q20/20	705/16
*	G	US-5832458-A	11-1998	Jones; Charles R.	G06Q20/202	705/14.26
*	H	US-20030216981-A1	11-2003	Tillman, Michael	G06Q20/04	705/34
*	I	US-20100010905-A1	01-2010	Arzumanyan; Andre	G06Q20/0453	705/21
*	J	US-20110087519-A1	04-2011	Fordyce, III; Edward W.	G06Q30/02	705/7.29
*	K	US-20100280881-A1	11-2010	Faith; Patrick	G06Q10/06375	705/7.34
*	L	US-9208481-B2	12-2015	Arzumanyan; Andre	G06Q20/0453	1/1
*	M	US-20120109709-A1	05-2012	Fordyce, III; Edward W.	G06Q30/02	705/7.29

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.

<i>Notice of References Cited</i>	Application/Control No. 16/456,490		Applicant(s)/Patent Under Reexamination Roberts et al.	
	Examiner GURKANWALJIT SINGH		Art Unit 3683	Page 3 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20140372184-A1	12-2014	Blumenthal; Mark	G06Q30/0217	705/7.41
*	B	US-20160247111-A1	08-2016	Blumenthal; Marc	G06Q10/06395	1/1
	C					
	D					
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	I					
	J					
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	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.

<i>Search Notes</i> 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.
	Examiner GURKANWALJIT SINGH	Art Unit 3683

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
EAST search	07/18/2019	GS
NPL search (sub. similar search strategy as East): ProQuest, IEEE, Google, ACM	07/18/2019	GS
Google Patents	07/18/2019	GS

/GURKANWALJIT SINGH/ Primary Examiner, Art Unit 3683	
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<i>Search Notes</i> 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.
	Examiner GURKANWALJIT SINGH	Art Unit 3683

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
705	all	07/18/2019	GS
706	all	07/18/2019	GS
235	all	07/18/2019	GS
G06Q	30/all, 10/all, 20/all	07/18/2019	GS
G07G	1/all	07/18/2019	GS
Y04S	10/all	07/18/2019	GS
Y10S	707/all	07/18/2019	GS

/GURKANWALJIT SINGH/ Primary Examiner, Art Unit 3683	
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<i>Index of Claims</i> 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.
	Examiner GURKANWALJIT SINGH	Art Unit 3683

✓	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	07/19/2019								
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	2	=								
	3	=								
	4	=								
	5	=								
	6	=								
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	13	=								
	14	=								
	15	=								
	16	=								
	17	=								
	18	=								
	19	=								

Issue Classification 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.	
	Examiner GURKANWALJIT SINGH	Art Unit 3683	

CPC						
Symbol					Type	Version
G06Q	/	30	/	0201	F	2013-01-01
G06Q	/	10	/	06395	I	2013-01-01
G06Q	/	30	/	0205	I	2013-01-01
G06Q	/	30	/	0202	I	2013-01-01
G06Q	/	20	/	20	I	2013-01-01
Y10S	/	707	/	99933	A	2013-01-01
Y04S	/	10	/	54	A	2013-01-01
G07G	/	1	/	0009	A	2013-01-01
H04B	/	5	/	0025	A	2013-01-01
G07G	/	1	/	14	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 19	
/GURKANWALJIT SINGH/ Primary Examiner, Art Unit 3683 (Primary Examiner) _____ (Date) 18 July 2019		O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.
	Examiner GURKANWALJIT SINGH	Art Unit 3683

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06Q	/	30	/ 00
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
705	7.29

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
705	21	35	7.34	7.31	7.33	7.41
706	15	52				
235	380	379				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/GURKANWALJIT SINGH/ Primary Examiner, Art Unit 3683	18 July 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 16/456,490	Applicant(s)/Patent Under Reexamination Roberts et al.
	Examiner GURKANWALJIT SINGH	Art Unit 3683

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47
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CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11												
	3		12												
	4		13												
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	6		15												
	7		16												
	8		17												
	9		18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 19	
/GURKANWALJIT SINGH/ Primary Examiner, Art Unit 3683 (Primary Examiner) _____ (Date) _____		18 July 2019	O.G. Print Claim(s) 1
			O.G. Print Figure 2

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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		
	Filing Date		2019-06-28
	First Named Inventor	Steven A. Roberts	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	A12875-088356	

U.S.PATENTS						
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	8328094	B2	2012-12-11	Proud, et al.	
	2	8417561	B2	2013-04-09	Ghosh, et al.	
	3	7937286	B2	2011-05-03	Newman,et al.	
	4	8027891	B2	2011-09-27	Preston, et al.	
	5	8255268	B2	2012-08-28	Rane, et al.	
	6	7792697	B2	2010-09-07	Bhagchandani, et al.	
	7	7328169	B2	2008-02-05	Temares, et al.	
	8	6839682	B1	2005-01-04	Blume, et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number	A12875-088356	

9	6078891	A	2000-06-20	Riordan, et al.	
10	5832458	A	1998-11-03	Jones	
11	9208481	B2	2015-12-08	Arzumanyan, et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

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	20100070376	A1	2010-03-18	Proud, et al.	
	2	20110196754	A1	2011-08-11	Proud, et al.	
	3	20030018550	A1	2003-01-23	Rotman, et al.	
	4	20070100728	A1	2007-05-03	Rotman, et al.	
	5	20100076813	A1	2010-03-25	Ghosh, et al.	
	6	20090006151	A1	2009-01-01	Zarghami, et al.	

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

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number		A12875-088356

7	20070050229	A1	2007-03-01	Tatro, et al.	
8	20060151598	A1	2006-07-13	Chen, et al.	
9	20020026348	A1	2002-02-28	Fowler, et al.	
10	20070055597	A1	2007-03-08	Patel, et al.	
11	20030216981	A1	2003-11-20	Tillman	
12	20100010905	A1	2010-01-14	Arzumanyan, et al.	
13	20110087519	A1	2011-04-14	Fordyce, III et al.	
14	20100280881	A1	2010-11-04	Faith, et al.	
15	20120109709	A1	2012-05-03	Fordyce, III et al.	
16	20140372184	A1	2014-12-18	Blumenthal	
17	20160247111	A1	2016-08-25	Blumenthal	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number	A12875-088356	

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FOREIGN PATENT DOCUMENTS

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

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	Ron Borzekowski, Elizabeth K. Kiser, The choice at the checkout: Quantifying demand across payment instruments, International Journal of Industrial Organization, Volume 26, Issue 4, July 2008, Pages 889-902, ISSN 0167-7187	☐
	2	Shankar, Venkatesh, and Sridhar Balasubramanian. "Mobile marketing: a synthesis and prognosis." Journal of Interactive Marketing 23.2 (2009): 118-129	☐
	3	Lang, M. C. (2010). Entrepreneurial idea identification through online social networks. (Order No. 3440018, Morgan State University). ProQuest Dissertations and Theses, 145	☐

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EXAMINER SIGNATURE

Examiner Signature	/GURKANWALJIT SINGH/	Date Considered	07/19/2019
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*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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	939339	((point adj of adj sale) or POS or point-of-sale)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:31
S2	7132	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:33
S3	7132	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:34
S4	7132	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:35
S5	155	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:35
S6	112	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:36
S7	93	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:39

		((time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)))				
S8	37	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))) and (trend\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:40
S9	36	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:41
S10	15	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:42
S11	15	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5)) and (report\$5 with (graph or graphical or graph\$5) with trend\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:42
S12	15	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5	US-PGPUB; USPAT;	OR	ON	2014/02/14 21:44

		or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5)) and (report\$5 with (graph or graphical or graph\$5) with trend\$5) and (((payment or pay\$5) near5 type) or cash or credit or (credit near3 card))	USOCR			
S13	15	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5)) and (report\$5 with (graph or graphical or graph\$5) with trend\$5) and ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/14 21:45
S14	9	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with (payment near5 type))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:51
S15	9	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:52
S17	12	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:54

		near5 (type or cash or credit or (credit near3 card))))				
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S19	1	("2010/0070376").URPN.	USPAT	OR	OFF	2014/02/20 18:57
S20	14	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:57
S21	15	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:58
S22	9	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 18:59
S23	12	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:00

		((credit near3 card)))				
S24	12	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or ((credit or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:00
S25	11	("20030061132" "20040088190" "20050055275" "20060080631" "20080109375" "20080140503" "20080208760" "20090299896" "20100076812" "20100241462" "6070147").PN. OR ("8417561").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/20 19:02
S26	116	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:03
S27	23	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card)))) and (market near3 trend)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:04
S28	15	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:06
S29	15	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:07
S30	16	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:08

		((trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))				
S31	77	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:09
S32	20	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 19:11
S35	87085	(G06Q\$/\$\$)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:47
S36	9	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:48
S37	6	S36 AND ((G06Q30/0201).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:49
S38	223991	(G06Q\$/\$\$.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:49
S39	7150	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:52
S40	4761	S38 and S39	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:52

S41	157	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:52
S42	137	S38 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:52
S43	46555	("705").CLAS.	USPAT; USOCR	OR	OFF	2014/02/20 23:57
S44	26	S43 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:57
S45	157	S39 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:57
S46	9	S36 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/20 23:57
S47	116	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:02
S48	14	S43 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:02
S49	6219	(705/7.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2014/02/21 00:03
S50	4965	(705/14.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2014/02/21 00:03
S51	6	S49 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:03
S52	0	S50 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:03
S53	113	S38 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:14
S54	75	S53 AND ((G06Q30/02 OR G06Q20/20 OR H04L2209/20 OR H04L2209/56 OR H04L2209/805 OR H04L9/3247 OR H04L63/08 OR H04L63/0823 OR H04L63/14 OR H04L63/168 OR H04L67/02 OR G06F21/60 OR G06F21/6218 OR G06F17/30716).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:21
S55	33	("20020116252" "20100287029" "20110251870" "7792897"	US-PGPUB;	OR	ON	2014/02/21 00:26

		"20040230472" "20080033587" "20110087546" "6151582" "6633851" "20110035278" "20110087547" "5500513" "7328169" "7890367" "20010016819" "20050090911" "20110093327" "20110093335" "7451134" "8195500" "20070083430" "20080262900" "20080270363" "20090299536" "20110035280" "20110251907" "6839682" "8306846" "20040225556" "20110087519" "20110087550" "7937286" "8224687").PN.	USPAT; USOCR			
S56	15	("20020026348" "20020082920" "20040088221" "20060143072" "20070055597" "20070100728" "20090048884" "20090276293" "20090327045" "6839682" "7328169" "7451134" "7792697" "7853469" "7890367").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:31
S57	5	("20060151598" "20070179836" "7937286" "8027891" "8255268").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2014/02/21 00:31
S58	30	("20010037206" "20020052776" "20020072974" "20020107719" "20020123957" "20020174013" "20030027635" "20030088436" "20030093414" "20030149623" "20030204436" "20040059634" "4331973" "4355372" "4603232" "5822744" "5893098" "5913204" "6233564" "6236975" "6256663" "6334110" "6456981" "6505168" "6594638" "6778807" "6826540" "6836773" "7181696" "RE31951").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2014/02/21 00:32
S59	1	("6078891").PN.	USPAT; USOCR	OR	OFF	2014/02/21 00:52
S60	31	("3956615" "4319336" "4340810" "4355372" "4438824" "4799156" "4943963" "4951196" "4972504" "5103392" "5202977" "5253345" "5315093" "5331544" "5490060" "5490252" "5491473" "5499385" "5513102" "5521363" "5557518" "5557780" "5590196" "5590197" "5592378" "5592560" "5604804" "5608874" "5684965" "5687322" "5832460").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2014/02/21 00:52
S61	1	("5832458").PN.	USPAT; USOCR	OR	OFF	2014/02/21 00:53
S62	0	("20030316981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2014/02/21 01:01
S63	1	("20030216981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2014/02/21 01:01
S80	22745	transaction near5 (pattern)	US- PGPUB;	OR	ON	2018/01/19 14:52

			USPAT; USOCR			
S81	215	(transaction near5 (pattern)) same (marketing)	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S82	46	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S83	47	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S84	64	((transaction near5 (pattern)) same (marketing)) and (merchant or shop or retail or store or seller) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S85	39	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S86	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:53
S87	9	((transaction near5 (pattern or trend)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2018/01/19 14:54
S88	22	("20020161721" "20030055727" "20030088460" "20030115135" "20030158819" "20040039876" "20040064373" "20050021480" "20050165651" "20070050258" "20070069013" "20080201213" "20100114677" "20120253940" "20140100932" "20140122272" "5448044" "6240394" "6636908" "8170936" "8548859" "8626593").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/01/19 14:55
S89	0	("9208481").URPN.	USPAT	OR	OFF	2018/01/19 14:55
S90	81	("2011/0087519").URPN.	USPAT	OR	OFF	2018/01/19 14:55
S91	26	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-	US-PGPUB; USPAT	OR	OFF	2018/03/18 18:44

		20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-20100280881-\$ or US-20120109709-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.				
S92	969	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and survey	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 18:44
S93	1	S91 and S92	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 18:45
S94	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 18:51
S95	2032	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 18:54
S96	2087	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile))	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 19:08
S97	92	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity)	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 19:09
S98	15	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey)	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 19:11

S99	3	((transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey) and (survey with (transactional or transaction or product or (merchant or shop or retail or store or facility or facilities or seller) or (employee or staff)))	US-PGPUB; USPAT; USOCR	OR	ON	2018/03/18 19:13
S100	1043615	((point adj of adj sale) or POS or point-of-sale)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S101	15133	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S102	15133	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S103	15133	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S104	328	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S105	240	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S106	193	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08

		transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))				
S107	74	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S108	10	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with (payment near5 type))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S109	10	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S110	16	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S111	87	("20010016825" "20010037250" "20020049656" "20020087384" "20020087522" "20020178451" "20030023456" "20030046701" "20030093323" "20030093798" "20030172090" "20030191698" "20030220841" "20030229897" "20040210450" "20050132407" "20070050279" "20070112673" "20070198432" "20080132212" "20090132813" "20090172035"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:08

		"20100057534" "20100064327" "20100189089" "20110055915" "20110196754" "20110313826" "20110314487" "20110314488" "20110314489" "20110314490" "20110314507" "5367452" "5412193" "5873069" "5973619" "6003008" "6014090" "6060993" "6133853" "6151582" "6177887" "6188991" "6343317" "6390366" "6460020" "6609107" "6754636" "6873260" "6882290" "6920319" "6988078" "7103008" "7171369" "7177826" "7206757" "7298327" "7535367" "7599691" "7681790" "7685953" "7747704" "7783507" "7797204" "7853272").PN. OR ("8328094").URPN.				
S112	48	("2010/0070376").URPN.	USPAT	OR	OFF	2019/03/28 08:08
S113	15	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S114	17	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S115	10	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S116	16	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S117	16	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or (credit or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S118	16	("20030061132" "20040088190"	US-	OR	OFF	2019/03/28

		"20050055275" "20060080631" "20080109375" "20080140503" "20080208760" "20090299896" "20100076812" "20100241462" "6070147").PN. OR ("8417561").URPN.	PGPUB; USPAT; USOCR			08:08
S119	162	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S120	29	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card)))) and (market near3 trend)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S121	19	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S122	19	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S123	40	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S124	178	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4 or data or information or course	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08

		or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))				
S125	24	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S126	202552	(G06Q\$/\$\$)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S127	10	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S128	8	S127 AND ((G06Q30/0201).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S129	386556	(G06Q\$/\$\$).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S130	15133	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S131	8930	S129 and S130	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S132	328	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S133	309	S129 and S132	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08

S134	53842	("705").CLAS.	USPAT; USOCR	OR	OFF	2019/03/28 08:08
S135	35	S134 and S132	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S136	328	S130 and S132	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S137	10	S127 and S132	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S138	162	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S139	18	S134 and S138	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S140	7280	(705/7.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/03/28 08:08
S141	6415	(705/14.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/03/28 08:08
S142	9	S140 and S138	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S143	2	S141 and S138	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S144	145	S129 and S138	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S145	81	S144 AND ((G06Q30/02 OR G06Q20/20 OR H04L2209/20 OR H04L2209/56 OR H04L2209/805 OR H04L9/3247 OR H04L63/08 OR H04L63/0823 OR H04L63/14 OR H04L63/168 OR H04L67/02 OR G06F21/60 OR G06F21/6218 OR G06F17/30716).CPC.)	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S146	33	("20020116252" "20100287029" "20110251870" "7792897" "20040230472" "20080033587" "20110087546" "6151582" "6633851" "20110035278" "20110087547" "5500513" "7328169" "7890367" "20010016819" "20050090911" "20110093327" "20110093335" "7451134" "8195500" "20070083430" "20080262900" "20080270363" "20090299536" "20110035280" "20110251907" "6839682" "8306846" "20040225556" "20110087519" "20110087550" "7937286" "8224687").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08

S147	15	("20020026348" "20020082920" "20040088221" "20060143072" "20070055597" "20070100728" "20090048884" "20090276293" "20090327045" "6839682" "7328169" "7451134" "7792697" "7853469" "7890367").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S148	5	("20060151598" "20070179836" "7937286" "8027891" "8255268").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S149	30	("20010037206" "20020052776" "20020072974" "20020107719" "20020123957" "20020174013" "20030027635" "20030088436" "20030093414" "20030149623" "20030204436" "20040059634" "4331973" "4355372" "4603232" "5822744" "5893098" "5913204" "6233564" "6236975" "6256663" "6334110" "6456981" "6505168" "6594638" "6778807" "6826540" "6836773" "7181696" "RE31951").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:08
S150	1	("6078891").PN.	USPAT; USOCR	OR	OFF	2019/03/28 08:08
S151	31	("3956615" "4319336" "4340810" "4355372" "4438824" "4799156" "4943963" "4951196" "4972504" "5103392" "5202977" "5253345" "5315093" "5331544" "5490060" "5490252" "5491473" "5499385" "5513102" "5521363" "5557518" "5557780" "5590196" "5590197" "5592378" "5592560" "5604804" "5608874" "5684965" "5687322" "5832460").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:08
S152	1	("5832458").PN.	USPAT; USOCR	OR	OFF	2019/03/28 08:08
S153	0	("20030316981").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:08
S154	1	("20030216981").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:08
S155	25535	transaction near5 (pattern)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S156	231	(transaction near5 (pattern)) same (marketing)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S157	50	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:08
S158	51	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or	US-PGPUB;	OR	ON	2019/03/28 08:08

		point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	USPAT; USOCR			
S159	70	((transaction near5 (pattern)) same (marketing)) and (merchant or shop or retail or store or seller) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S160	44	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S161	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S162	11	((transaction near5 (pattern or trend)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US- PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S163	22	("20020161721" "20030055727" "20030088460" "20030115135" "20030158819" "20040039876" "20040064373" "20050021480" "20050165651" "20070050258" "20070069013" "20080201213" "20100114677" "20120253940" "20140100932" "20140122272" "5448044" "6240394" "6636908" "8170936" "8548859" "8626593").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/03/28 08:09
S164	2	("9208481").URPN.	USPAT	OR	OFF	2019/03/28 08:09
S165	120	("2011/0087519").URPN.	USPAT	OR	OFF	2019/03/28 08:09
S166	26	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-20100280881-\$ or US-20120109709-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.	US- PGPUB; USPAT	OR	OFF	2019/03/28 08:09
S167	1039	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5	US- PGPUB; USPAT;	OR	ON	2019/03/28 08:09

		or send\$5) with (data or ((sale or transaction) near3 information) or information)) and survey	USOCR			
S168	1	S166 and S167	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S169	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S170	2235	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S171	2357	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile))	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S172	102	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S173	16	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09
S174	4	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey) and (survey with (transactional or transaction or product or (merchant or shop or retail or store or facility or facilities or seller) or (employee	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/28 08:09

		or staff)))				
S175	28	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-20100280881-\$ or US-20120109709-\$ or US-20140372184-\$ or US-20160247111-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:33
S204	1051368	((point adj of adj sale) or POS or point-of-sale)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S205	15762	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S206	15762	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S207	15762	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S208	344	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S209	254	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S210	206	((point adj of adj sale) or POS or point-	US-	OR	ON	2019/07/18

		of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))	PGPUB; USPAT; USOCR			18:25
S211	83	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S212	11	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with (payment near5 type))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S213	11	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S214	17	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S215	89	("20010016825" "20010037250" "20020049656" "20020087384" "20020087522" "20020178451" "20030023456" "20030046701" "20030093323" "20030093798" "20030172090" "20030191698" "20030220841" "20030229897" "20040210450" "20050132407"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:25

		"20070050279" "20070112673" "20070198432" "20080132212" "20090132813" "20090172035" "20100057534" "20100064327" "20100189089" "20110055915" "20110196754" "20110313826" "20110314487" "20110314488" "20110314489" "20110314490" "20110314507" "5367452" "5412193" "5873069" "5973619" "6003008" "6014090" "6060993" "6133853" "6151582" "6177887" "6188991" "6343317" "6390366" "6460020" "6609107" "6754636" "6873260" "6882290" "6920319" "6988078" "7103008" "7171369" "7177826" "7206757" "7298327" "7535367" "7599691" "7681790" "7685953" "7747704" "7783507" "7797204" "7853272").PN. OR ("8328094").URPN.				
S216	54	("2010/0070376").URPN.	USPAT	OR	OFF	2019/07/18 18:25
S217	16	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S218	18	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S219	11	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S220	17	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S221	17	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25

		near5 (type or method or cash or credit or ((credit or debit) near3 card))))				
S222	17	("20030061132" "20040088190" "20050055275" "20060080631" "20080109375" "20080140503" "20080208760" "20090299896" "20100076812" "20100241462" "6070147").PN. OR ("8417561").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:25
S223	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S224	30	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card)))) and (market near3 trend)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S225	20	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S226	20	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S227	41	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25
S228	187	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:25

		or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))				
S229	25	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S230	212428	(G06Q\$\$/\$\$)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S231	11	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S232	9	S231 AND ((G06Q30/0201).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S233	398031	(G06Q\$\$/\$\$).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S234	15762	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S235	9261	S233 and S234	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S236	344	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S237	323	S233 and S236	US-PGPUB;	OR	ON	2019/07/18 18:26

			USPAT; USOCR			
S238	53819	("705").CLAS.	USPAT; USOCR	OR	OFF	2019/07/18 18:26
S239	35	S238 and S236	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S240	344	S234 and S236	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S241	11	S231 and S236	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S242	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S243	18	S238 and S242	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S244	7279	(705/7.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/07/18 18:26
S245	6410	(705/14.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/07/18 18:26
S246	9	S244 and S242	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S247	2	S245 and S242	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S248	152	S233 and S242	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S249	84	S248 AND ((G06Q30/02 OR G06Q20/20 OR H04L2209/20 OR H04L2209/56 OR H04L2209/805 OR H04L9/3247 OR H04L63/08 OR H04L63/0823 OR H04L63/14 OR H04L63/168 OR H04L67/02 OR G06F21/60 OR G06F21/6218 OR G06F17/30716).CPC.)	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S250	33	("20020116252" "20100287029" "20110251870" "7792897" "20040230472" "20080033587" "20110087546" "6151582" "6633851" "20110035278" "20110087547" "5500513" "7328169" "7890367" "20010016819" "20050090911" "20110093327" "20110093335" "7451134" "8195500" "20070083430" "20080262900" "20080270363" "20090299536" "20110035280" "20110251907" "6839682" "8306846"	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26

		"20040225556" "20110087519" "20110087550" "7937286" "8224687").PN.				
S251	15	("20020026348" "20020082920" "20040088221" "20060143072" "20070055597" "20070100728" "20090048884" "20090276293" "20090327045" "6839682" "7328169" "7451134" "7792697" "7853469" "7890367").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S252	5	("20060151598" "20070179836" "7937286" "8027891" "8255268").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S253	30	("20010037206" "20020052776" "20020072974" "20020107719" "20020123957" "20020174013" "20030027635" "20030088436" "20030093414" "20030149623" "20030204436" "20040059634" "4331973" "4355372" "4603232" "5822744" "5893098" "5913204" "6233564" "6236975" "6256663" "6334110" "6456981" "6505168" "6594638" "6778807" "6826540" "6836773" "7181696" "RE31951").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:26
S254	1	("6078891").PN.	USPAT; USOCR	OR	OFF	2019/07/18 18:26
S255	31	("3956615" "4319336" "4340810" "4355372" "4438824" "4799156" "4943963" "4951196" "4972504" "5103392" "5202977" "5253345" "5315093" "5331544" "5490060" "5490252" "5491473" "5499385" "5513102" "5521363" "5557518" "5557780" "5590196" "5590197" "5592378" "5592560" "5604804" "5608874" "5684965" "5687322" "5832460").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:26
S256	1	("5832458").PN.	USPAT; USOCR	OR	OFF	2019/07/18 18:26
S257	0	("20030316981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:26
S258	1	("20030216981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:26
S259	26349	transaction near5 (pattern)	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S260	237	((transaction near5 (pattern)) same (marketing))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S261	53	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3	US- PGPUB; USPAT;	OR	ON	2019/07/18 18:26

		sale)) near8 (device or system))	USOCR			
S262	54	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S263	73	((transaction near5 (pattern)) same (marketing)) and (merchant or shop or retail or store or seller) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S264	46	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S265	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S266	11	((transaction near5 (pattern or trend)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S267	22	("20020161721" "20030055727" "20030088460" "20030115135" "20030158819" "20040039876" "20040064373" "20050021480" "20050165651" "20070050258" "20070069013" "20080201213" "20100114677" "20120253940" "20140100932" "20140122272" "5448044" "6240394" "6636908" "8170936" "8548859" "8626593").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:26
S268	2	("9208481").URPN.	USPAT	OR	OFF	2019/07/18 18:26
S269	134	("2011/0087519").URPN.	USPAT	OR	OFF	2019/07/18 18:26
S270	26	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-20100280881-\$ or US-20120109709-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:26

S271	1061	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and survey	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S272	1	S270 and S271	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S273	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S274	2316	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:26
S275	2440	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S276	109	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S277	18	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S278	6	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27

		shopper) with survey) and (survey with (transactional or transaction or product or (merchant or shop or retail or store or facility or facilities or seller) or (employee or staff)))				
S279	1051368	((point adj of adj sale) or POS or point-of-sale)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S280	15762	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S281	15762	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S282	15762	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S283	344	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S284	254	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S285	206	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S286	83	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit)	US-PGPUB;	OR	ON	2019/07/18 18:27

		with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5)	USPAT; USOCR			
S287	11	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with (payment near5 type))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S288	11	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S289	17	(((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S290	89	("20010016825" "20010037250" "20020049656" "20020087384" "20020087522" "20020178451" "20030023456" "20030046701" "20030093323" "20030093798" "20030172090" "20030191698" "20030220841" "20030229897" "20040210450" "20050132407" "20070050279" "20070112673" "20070198432" "20080132212" "20090132813" "20090172035" "20100057534" "20100064327" "20100189089" "20110055915" "20110196754" "20110313826" "20110314487" "20110314488" "20110314489" "20110314490" "20110314507" "5367452" "5412193" "5873069" "5973619" "6003008" "6014090" "6060993" "6133853" "6151582" "6177887" "6188991" "6343317" "6390366" "6460020"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:27

		"6609107" "6754636" "6873260" "6882290" "6920319" "6988078" "7103008" "7171369" "7177826" "7206757" "7298327" "7535367" "7599691" "7681790" "7685953" "7747704" "7783507" "7797204" "7853272").PN. OR ("8328094").URPN.				
S291	54	("2010/0070376").URPN.	USPAT	OR	OFF	2019/07/18 18:27
S292	16	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S293	18	((point adj of adj sale) or POS or point-of-sale) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S294	11	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S295	17	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S296	17	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5 or transaction) near5 (type or method or cash or credit or (credit or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S297	17	("20030061132" "20040088190" "20050055275" "20060080631" "20080109375" "20080140503" "20080208760" "20090299896" "20100076812" "20100241462" "6070147").PN. OR ("8417561").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:27
S298	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27

S299	30	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card)))) and (market near3 trend)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S300	20	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S301	20	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (market with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S302	41	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S303	187	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S304	25	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27

		or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((trend\$4) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))				
S305	212428	(G06Q\$\$/\$\$)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S306	11	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S307	9	S306 AND ((G06Q30/0201).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S308	398031	(G06Q\$\$/\$\$).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S309	15762	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S310	9261	S308 and S309	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S311	344	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S312	323	S308 and S311	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S313	53819	("705").CLAS.	USPAT; USOCR	OR	OFF	2019/07/18 18:27
S314	35	S313 and S311	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S315	344	S309 and S311	US-PGPUB; USPAT;	OR	ON	2019/07/18 18:27

			USOCR			
S316	11	S306 and S311	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S317	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S318	18	S313 and S317	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S319	7279	(705/7.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/07/18 18:27
S320	6410	(705/14.\$\$.CCLS.	USPAT; USOCR	OR	OFF	2019/07/18 18:27
S321	9	S319 and S317	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:27
S322	2	S320 and S317	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S323	152	S308 and S317	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S324	84	S323 AND ((G06Q30/02 OR G06Q20/20 OR H04L2209/20 OR H04L2209/56 OR H04L2209/805 OR H04L9/3247 OR H04L63/08 OR H04L63/0823 OR H04L63/14 OR H04L63/168 OR H04L67/02 OR G06F21/60 OR G06F21/6218 OR G06F17/30716).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S325	33	("20020116252" "20100287029" "20110251870" "7792897" "20040230472" "20080033587" "20110087546" "6151582" "6633851" "20110035278" "20110087547" "5500513" "7328169" "7890367" "20010016819" "20050090911" "20110093327" "20110093335" "7451134" "8195500" "20070083430" "20080262900" "20080270363" "20090299536" "20110035280" "20110251907" "6839682" "8306846" "20040225556" "20110087519" "20110087550" "7937286" "8224687").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S326	15	("20020026348" "20020082920" "20040088221" "20060143072" "20070055597" "20070100728" "20090048884" "20090276293" "20090327045" "6839682" "7328169" "7451134" "7792697" "7853469" "7890367").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S327	5	("20060151598" "20070179836" "7937286" "8027891" "8255268").PN.	US-PGPUB;	OR	ON	2019/07/18 18:28

			USPAT; USOCR			
S328	30	("20010037206" "20020052776" "20020072974" "20020107719" "20020123957" "20020174013" "20030027635" "20030088436" "20030093414" "20030149623" "20030204436" "20040059634" "4331973" "4355372" "4603232" "5822744" "5893098" "5913204" "6233564" "6236975" "6256663" "6334110" "6456981" "6505168" "6594638" "6778807" "6826540" "6836773" "7181696" "RE31951").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:28
S329	1	("6078891").PN.	USPAT; USOCR	OR	OFF	2019/07/18 18:28
S330	31	("3956615" "4319336" "4340810" "4355372" "4438824" "4799156" "4943963" "4951196" "4972504" "5103392" "5202977" "5253345" "5315093" "5331544" "5490060" "5490252" "5491473" "5499385" "5513102" "5521363" "5557518" "5557780" "5590196" "5590197" "5592378" "5592560" "5604804" "5608874" "5684965" "5687322" "5832460").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:28
S331	1	("5832458").PN.	USPAT; USOCR	OR	OFF	2019/07/18 18:28
S332	0	("20030316981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:28
S333	1	("20030216981").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:28
S334	26349	transaction near5 (pattern)	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S335	237	((transaction near5 (pattern)) same (marketing))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S336	53	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S337	54	((transaction near5 (pattern)) same (marketing)) and merchant and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S338	73	((transaction near5 (pattern)) same (marketing)) and (merchant or shop or retail or store or seller) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28

S339	46	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S340	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S341	11	((transaction near5 (pattern or trend)) same (marketing)) and ((merchant or shop or retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S342	22	("20020161721" "20030055727" "20030088460" "20030115135" "20030158819" "20040039876" "20040064373" "20050021480" "20050165651" "20070050258" "20070069013" "20080201213" "20100114677" "20120253940" "20140100932" "20140122272" "5448044" "6240394" "6636908" "8170936" "8548859" "8626593").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/18 18:28
S343	2	("9208481").URPN.	USPAT	OR	OFF	2019/07/18 18:28
S344	134	("2011/0087519").URPN.	USPAT	OR	OFF	2019/07/18 18:28
S345	26	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-20100280881-\$ or US-20120109709-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:28
S346	1061	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and survey	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S347	1	S345 and S346	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S348	7	((transaction near5 (pattern)) same (marketing)) and ((merchant or shop or	US-PGPUB;	OR	ON	2019/07/18 18:28

		retail or store or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	USPAT; USOCR			
S349	2316	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and (transaction with (path or route))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S350	2440	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S351	109	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity)	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S352	18	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey)	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S353	6	(transaction near5 (customer or buyer or shopper)) and ((merchant or shop or retail or store or facility or facilities or seller) near10 location) and ((POS or point-of-sale or (point near3 of near3 sale)) near8 (device or system or terminal)) and ((employee or staff) with (data or information or profile) with identity) and ((customer or buyer or shopper) with survey) and (survey with (transactional or transaction or product or (merchant or shop or retail or store or facility or facilities or seller) or (employee or staff)))	US- PGPUB; USPAT; USOCR	OR	ON	2019/07/18 18:28
S354	28	(US-20100070376-\$ or US-20110196754-\$ or US-20030018550-\$ or US-20070100728-\$ or US-20100076813-\$ or US-20090006151-\$ or US-20070050229-\$ or US-20060151598-\$ or US-20020026348-\$ or US-20070055597-\$ or US-20030216981-\$ or US-20100010905-\$ or US-20110087519-\$ or US-	US- PGPUB; USPAT	OR	OFF	2019/07/18 18:28

		20100280881-\$ or US-20120109709-\$ or US-20140372184-\$ or US-20160247111-\$).did. or (US-8328094-\$ or US-8417561-\$ or US-7937286-\$ or US-8027891-\$ or US-8255268-\$ or US-7792697-\$ or US-7328169-\$ or US-6839682-\$ or US-6078891-\$ or US-5832458-\$ or US-9208481-\$).did.				
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EAST Search History (I nterference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S33	9	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2014/02/20 19:22
S34	15	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5)) and (report\$5 with (graph or graphical or graph\$5) with trend\$5) and ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2014/02/20 19:22
S64	223608	(G06Q\$/\$\$).cpc.	US-PGPUB; USPAT	OR	ON	2014/02/20 23:53
S65	9	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54
S66	9	S64 and S65	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54
S67	15	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54

		((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and (time near5 (transact\$5 or sale)) and ((transaction or sale) with time with (amount or pric\$5 or payment)) and (trend\$5) and (report\$5) and ((creat\$5 or generat\$5 or produc\$5) near5 report\$5) and (report\$5 with (graph or graphical or graph\$5)) and (report\$5 with (graph or graphical or graph\$5) with trend\$5) and ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card)))				
S68	15	S64 and S67	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54
S69	18	(TAVARES near3 SILVIO).in.	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54
S70	12	(FAHY near3 SUSAN).in.	US-PGPUB; USPAT	OR	ON	2014/02/20 23:54
S71	56	(CARLSON near3 DENNIS).in.	US-PGPUB; USPAT	OR	ON	2014/02/20 23:55
S72	11	S69 and S70 and S71	US-PGPUB; USPAT	OR	ON	2014/02/20 23:56
S73	140309	("705").CLAS.	US-PGPUB; USPAT	OR	OFF	2014/02/20 23:58
S74	21889	(705/14.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2014/02/20 23:59
S75	17951	(705/7.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2014/02/20 23:59
S76	118	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2014/02/21 00:00
S77	113	S64 and S76	US-PGPUB; USPAT	OR	ON	2014/02/21 00:21
S78	25	S74 and S76	US-PGPUB; USPAT	OR	ON	2014/02/21 00:22
S79	13	S75 and S76	US-PGPUB; USPAT	OR	ON	2014/02/21 00:22
S176	10	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and ((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08

		(credit near3 card))))				
S177	385401	(G06Q\$\$/\$\$).cpc.	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S178	10	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S179	10	S177 and S178	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S180	33	(TAVARES near3 SILVIO).in.	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S181	19	(FAHY near3 SUSAN).in.	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S182	63	(CARLSON near3 DENNIS).in.	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S183	18	S180 and S181 and S182	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S184	176792	("705").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:08
S185	29517	(705/14.\$\$).CCLS.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:08
S186	24235	(705/7.\$\$).CCLS.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:08
S187	162	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S188	145	S177 and S187	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S189	28	S185 and S187	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S190	19	S186 and S187	US-PGPUB; USPAT	OR	ON	2019/03/28 08:08
S191	28	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:34
S192	26	S191 AND ((G06Q30/02 OR G06Q20/20 OR G06Q30/0201 OR G06Q30/0202 OR G06Q30/0205 OR G06Q10/06375 OR G06Q10/06395 OR G07G1/14 OR	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:36

		G07G1/0009 OR Y04S10/54 OR G06F16/2358 OR H04B5/0025 OR Y10S707/99933).CPC.)				
S193	170230	(G06Q30/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:36
S194	85264	(G06Q20/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:36
S195	159310	(G06Q10/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:37
S196	7225	(G07G1/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:37
S197	37399	(Y04S10/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:37
S198	245124	(G06F16/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:37
S199	13681	(H04B5/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:38
S200	54531	(Y10S707/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:38
S201	25988	("706").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:39
S202	81959	("235").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/03/28 08:39
S203	40	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))))	US-PGPUB; USPAT	OR	ON	2019/03/28 08:39
S355	11	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S356	396876	(G06Q\$\$/\$\$).cpc.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26

S357	11	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S358	11	S356 and S357	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S359	35	(TAVARES near3 SILVIO).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S360	21	(FAHY near3 SUSAN).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S361	65	(CARLSON near3 DENNIS).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S362	20	S359 and S360 and S361	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S363	176787	("705").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:26
S364	29512	(705/14.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:26
S365	24241	(705/7.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:26
S366	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S367	152	S356 and S366	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S368	28	S364 and S366	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S369	19	S365 and S366	US-PGPUB; USPAT	OR	ON	2019/07/18 18:26
S370	11	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S371	396876	(G06Q\$\$/\$\$).cpc.	US-PGPUB;	OR	ON	2019/07/18 18:28

			USPAT			
S372	11	((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units)) and (market with trend with ((payment or pay\$5) near5 (type or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S373	11	S371 and S372	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S374	35	(TAVARES near3 SILVIO).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S375	21	(FAHY near3 SUSAN).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S376	65	(CARLSON near3 DENNIS).in.	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S377	20	S374 and S375 and S376	US-PGPUB; USPAT	OR	ON	2019/07/18 18:28
S378	176787	("705").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:28
S379	29512	(705/14.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:28
S380	24241	(705/7.\$\$.CCLS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S381	169	((point adj of adj sale) or POS or point-of-sale) and (trend\$4 with ((payment or pay\$5) near5 (type or method or cash or credit or (credit near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:29
S382	152	S371 and S381	US-PGPUB; USPAT	OR	ON	2019/07/18 18:29
S383	28	S379 and S381	US-PGPUB; USPAT	OR	ON	2019/07/18 18:29
S384	19	S380 and S381	US-PGPUB; USPAT	OR	ON	2019/07/18 18:29
S385	28	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S386	26	S385 AND ((G06Q30/02 OR G06Q20/20 OR G06Q30/0201 OR G06Q30/0202 OR G06Q30/0205 OR G06Q10/06375 OR G06Q10/06395 OR G07G1/14 OR G07G1/0009 OR Y04S10/54 OR G06F16/2358 OR H04B5/0025 OR Y10S707/99933).CPC.)	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29

S387	175230	(G06Q30/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S388	87818	(G06Q20/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S389	164526	(G06Q10/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S390	7550	(G07G1/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S391	35929	(Y04S10/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S392	254650	(G06F16/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S393	14397	(H04B5/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S394	54620	(Y10S707/\$\$).CPC.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S395	26009	("706").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S396	81951	("235").CLAS.	US-PGPUB; USPAT	OR	OFF	2019/07/18 18:29
S397	41	((((point adj of adj sale) or POS or point-of-sale) with (terminal or system or unit) with (collect\$5 or record\$5 or transmit\$5 or send\$5) with (data or ((sale or transaction) near3 information) or information)) and (((point adj of adj sale) or POS or point-of-sale) with (terminals or systems or units) with aggregat\$5) and ((market or business or retail) with (trend\$4 or data or information or course or direction) with ((payment or pay\$5) near5 (type or method or cash or credit or ((credit or debt or debit) near3 card))))	US-PGPUB; USPAT	OR	ON	2019/07/18 18:29

7/ 19/ 2019 1:53:12 PM
C:\ Users\ gsingh\ Documents\ EAST\ Workspaces\ 16456490 transaction specific customer survey system.wsp

Bibliographic Data

Application No: 16/456,490

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /GURKANWALJIT SINGH/

Examiner's Signature

Initials

Title: TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/28/2019	705	3683	A12875-088356
RULE			

APPLICANTS

AFTERWORDS, INC., Tampa, FL,

INVENTORS

Steven A. Roberts Tampa, FL, UNITED STATES

Drew Peloubet Tampa, FL, UNITED STATES

CONTINUING DATA

This application is a CIP of 16279387 02/19/2019

16279387 is a CON of 14997434 01/15/2016

14997434 has PRO of 62104043 01/15/2015

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/11/2019

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

SHUMAKER LOOP & KENDRICK, LLP

101 E. KENNEDY

SUITE 2800

TAMPA, FL 33602

UNITED STATES

FILING FEE RECEIVED

\$865

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

**Title of
Invention**

TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐

The attached application, or

☒

United States application or PCT international application number 14/997,434

filed on January 15, 2016

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

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

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

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Drew Peloubet

Date (Optional) : _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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.

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

Title of
Invention

TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐

The attached application, or

☒

United States application or PCT international application number 14/997,434

filed on January 15, 2016

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

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

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

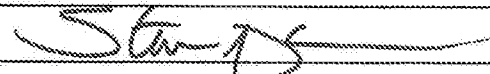
WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Steven A. Roberts

Date (Optional) : _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt

EFS ID:	36580135
Application Number:	16456490
International Application Number:	
Confirmation Number:	1092
Title of Invention:	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM
First Named Inventor/Applicant Name:	Steven A. Roberts
Customer Number:	57838
Filer:	Jeffrey Bruce Fabian/Charise Christianson
Filer Authorized By:	Jeffrey Bruce Fabian
Attorney Docket Number:	A12875-088356
Receipt Date:	15-JUL-2019
Filing Date:	28-JUN-2019
Time Stamp:	12:20:57
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	Oath or Declaration filed	OATH_Peloubet.pdf	126325	no	1
			4b6ac7abd616035eda31ba1019112ed0f3868037		

Warnings:

Information:					
2	Oath or Declaration filed	OATH_Roberts.pdf	126287	no	1
			ee27ad64c6e0356fee8eb43e65a02a96cea0b3cd		
Warnings:					
Information:					
Total Files Size (in bytes):			252612		
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.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY,DOCKET,NO	TOT CLAIMS	IND CLAIMS
16/456,490	06/28/2019		865	A12875-088356	19	2

CONFIRMATION NO. 1092

FILING RECEIPT

57838
SHUMAKER LOOP & KENDRICK, LLP
101 E. KENNEDY
SUITE 2800
TAMPA, FL 33602



0000000109367935

Date Mailed: 07/12/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Steven A. Roberts, Tampa, FL;
Drew Peloubet, Tampa, FL;

Applicant(s)

AFTERWORDS, INC., Tampa, FL;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 16/279,387 02/19/2019
which is a CON of 14/997,434 01/15/2016
which claims benefit of 62/104,043 01/15/2015

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: 07/11/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/456,490**

Projected Publication Date: 10/17/2019

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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NOT GRANTED

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
16/456,490

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	19 minus 20 =	*
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*
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))		

RATE(\$)	FEE(\$)
N/A	75
N/A	330
N/A	380
x 50 =	0.00
x 230 =	0.00
	0.00
	0.00
TOTAL	785

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

(Column 1)

(Column 2)

(Column 3)

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2019-06-28
	First Named Inventor	Steven A. Roberts	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	A12875-088356	

U.S.PATENTS						
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	8328094	B2	2012-12-11	Proud, et al.	
	2	8417561	B2	2013-04-09	Ghosh, et al.	
	3	7937286	B2	2011-05-03	Newman,et al.	
	4	8027891	B2	2011-09-27	Preston, et al.	
	5	8255268	B2	2012-08-28	Rane, et al.	
	6	7792697	B2	2010-09-07	Bhagchandani, et al.	
	7	7328169	B2	2008-02-05	Temares, et al.	
	8	6839682	B1	2005-01-04	Blume, et al.	

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

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number	A12875-088356	

9	6078891	A	2000-06-20	Riordan, et al.	
10	5832458	A	1998-11-03	Jones	
11	9208481	B2	2015-12-08	Arzumanyan, et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

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	20100070376	A1	2010-03-18	Proud, et al.	
	2	20110196754	A1	2011-08-11	Proud, et al.	
	3	20030018550	A1	2003-01-23	Rotman, et al.	
	4	20070100728	A1	2007-05-03	Rotman, et al.	
	5	20100076813	A1	2010-03-25	Ghosh, et al.	
	6	20090006151	A1	2009-01-01	Zarghami, et al.	

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

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number		A12875-088356

7	20070050229	A1	2007-03-01	Tatro, et al.	
8	20060151598	A1	2006-07-13	Chen, et al.	
9	20020026348	A1	2002-02-28	Fowler, et al.	
10	20070055597	A1	2007-03-08	Patel, et al.	
11	20030216981	A1	2003-11-20	Tillman	
12	20100010905	A1	2010-01-14	Arzumanyan, et al.	
13	20110087519	A1	2011-04-14	Fordyce, III et al.	
14	20100280881	A1	2010-11-04	Faith, et al.	
15	20120109709	A1	2012-05-03	Fordyce, III et al.	
16	20140372184	A1	2014-12-18	Blumenthal	
17	20160247111	A1	2016-08-25	Blumenthal	

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

Application Number		
Filing Date		2019-06-28
First Named Inventor	Steven A. Roberts	
Art Unit		
Examiner Name		
Attorney Docket Number	A12875-088356	

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

FOREIGN PATENT DOCUMENTS

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

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	Ron Borzekowski, Elizabeth K. Kiser, The choice at the checkout: Quantifying demand across payment instruments, International Journal of Industrial Organization, Volume 26, Issue 4, July 2008, Pages 889-902, ISSN 0167-7187	☐
	2	Shankar, Venkatesh, and Sridhar Balasubramanian. "Mobile marketing: a synthesis and prognosis." Journal of Interactive Marketing 23.2 (2009): 118-129	☐
	3	Lang, M. C. (2010). Entrepreneurial idea identification through online social networks. (Order No. 3440018, Morgan State University). ProQuest Dissertations and Theses, 145	☐

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

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	2019-06-28
First Named Inventor	Steven A. Roberts
Art Unit	
Examiner Name	
Attorney Docket Number	A12875-088356

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	/Jeffrey B. Fabian/	Date (YYYY-MM-DD)	2019-06-28
Name/Print	Jeffrey B. Fabian	Registration Number	70164

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 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.

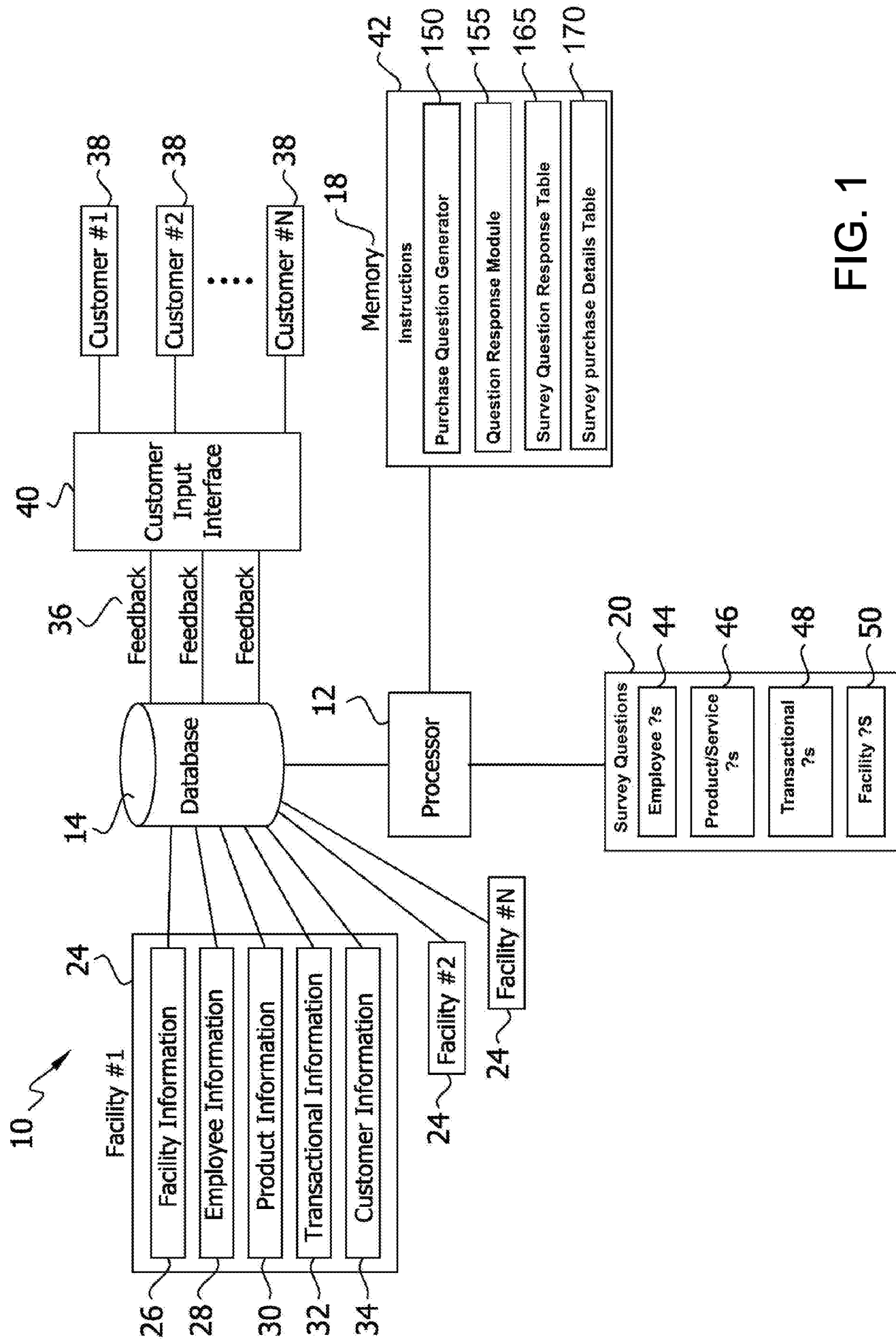


FIG. 1

FIG. 2

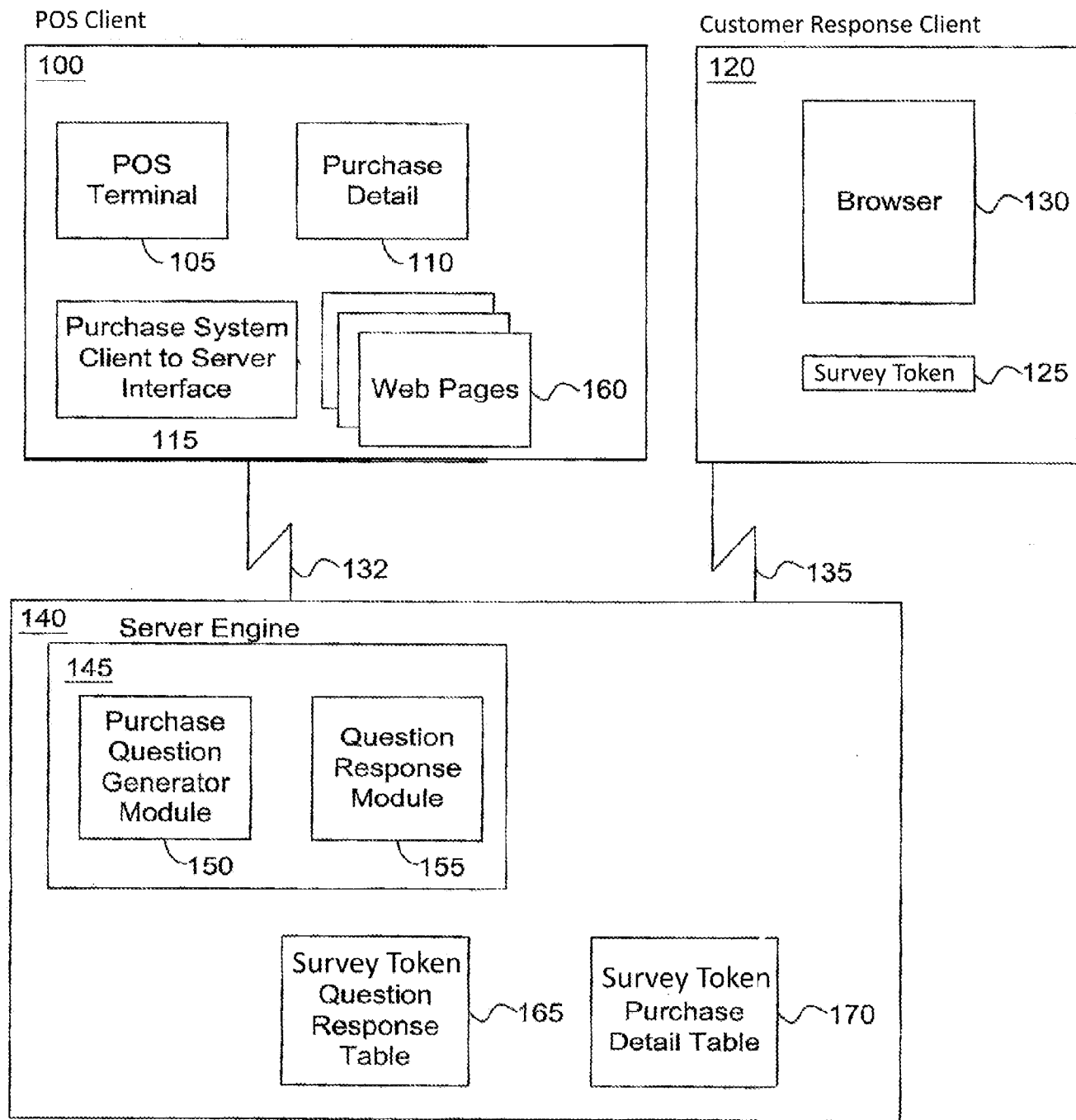


FIG. 3

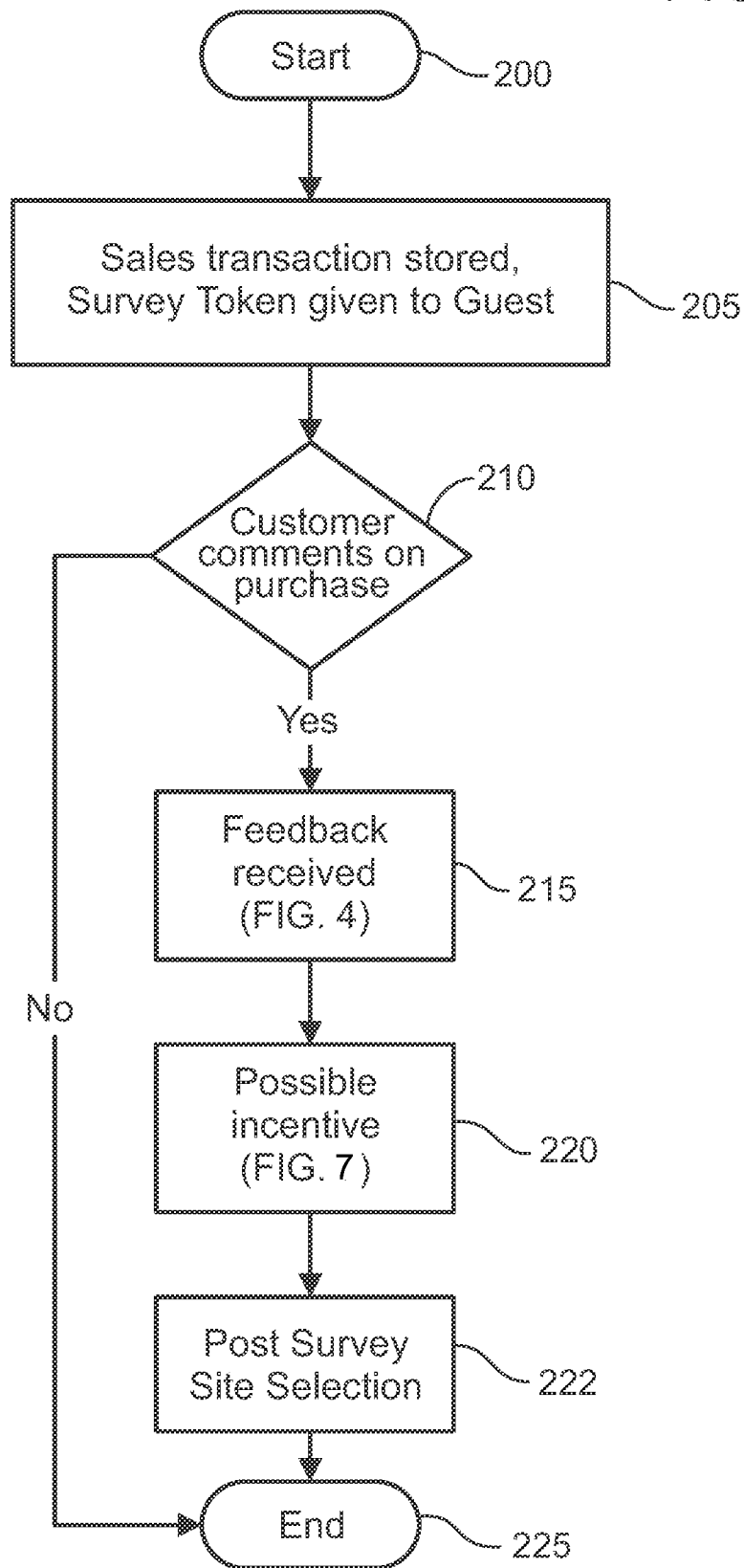


FIG. 4

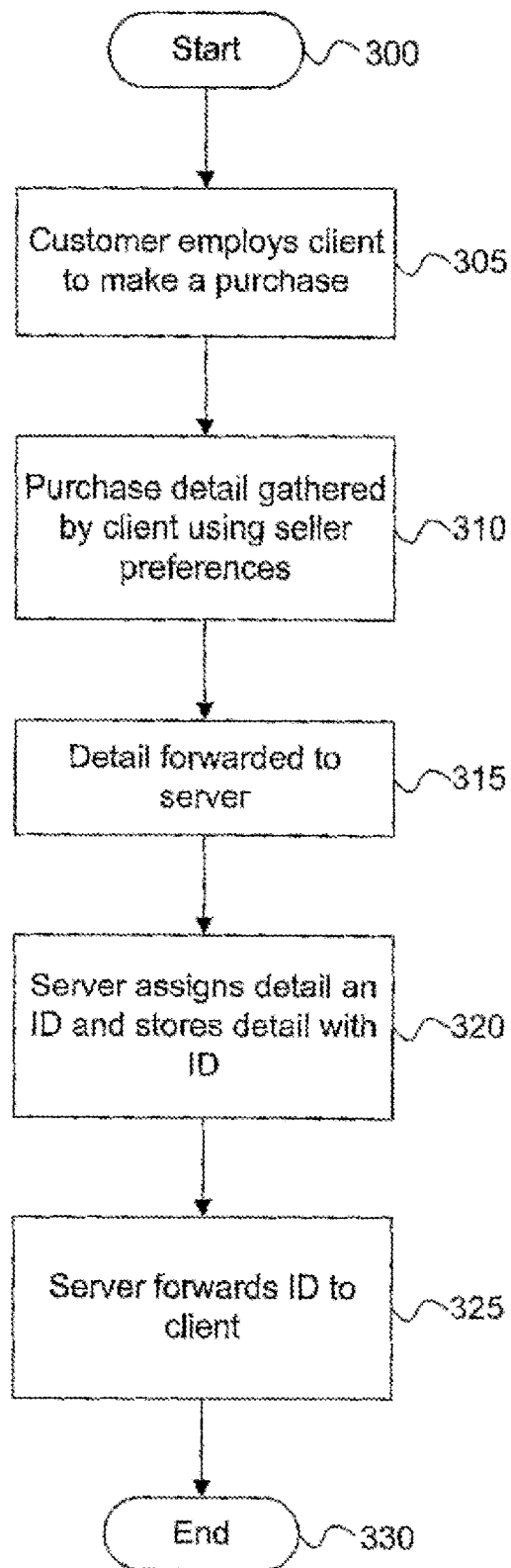


FIG. 5

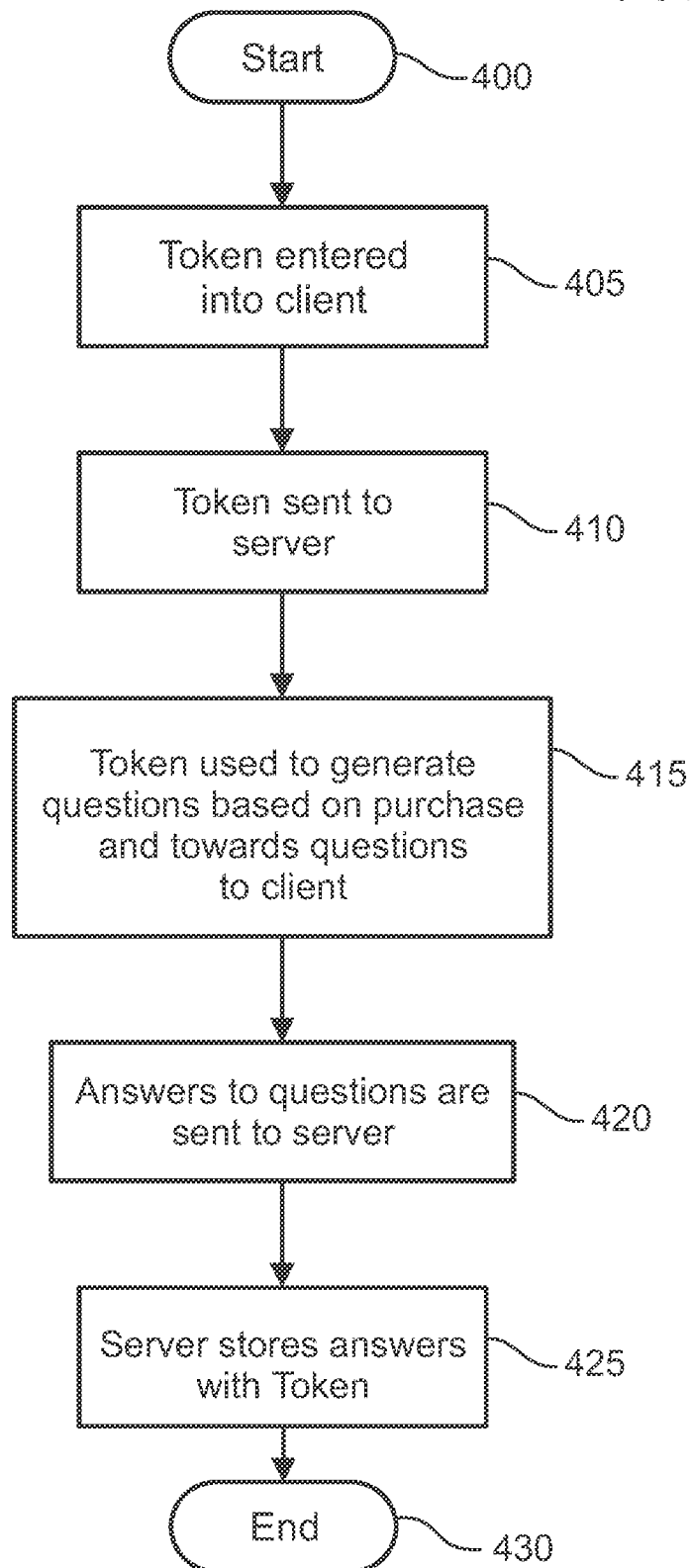


FIG. 6

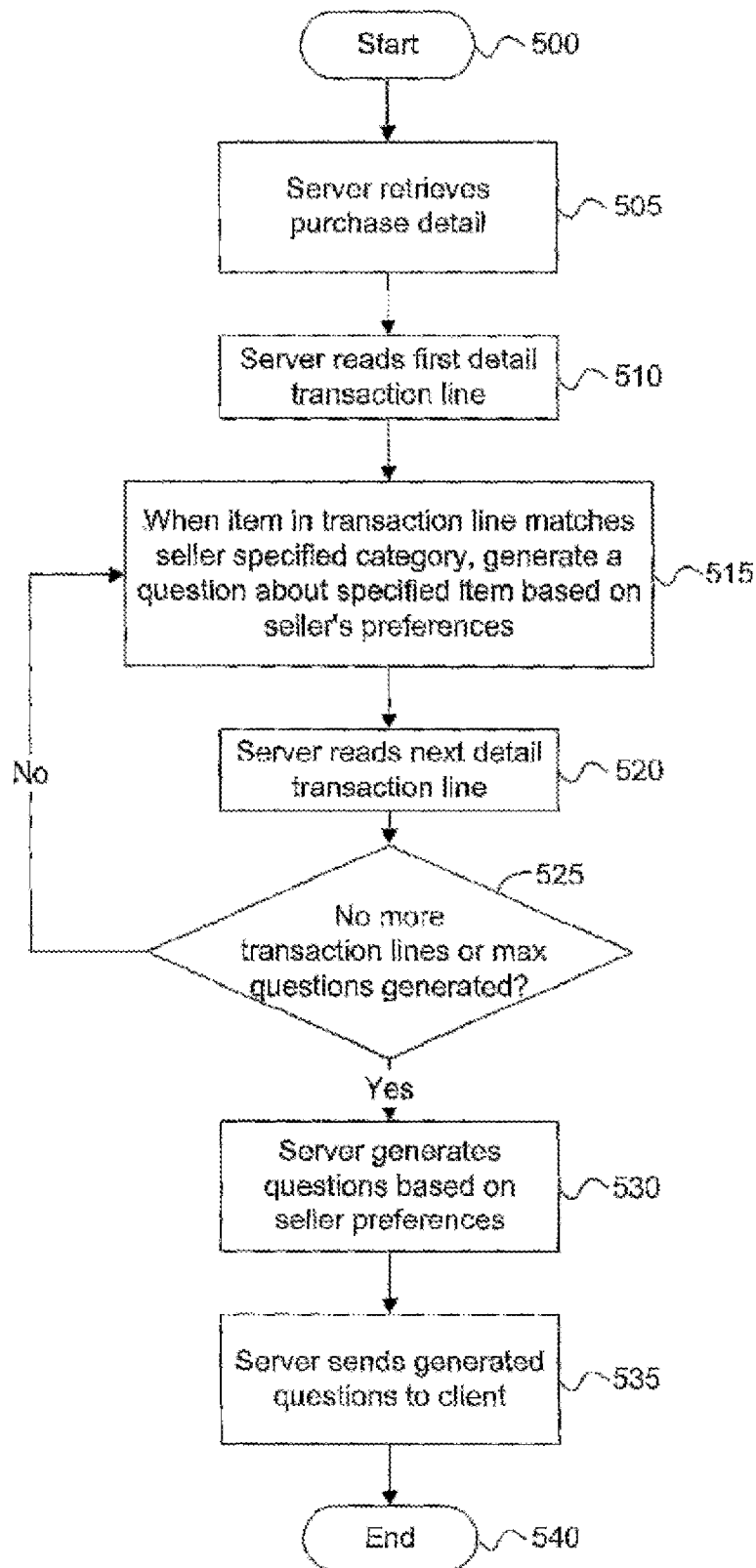


FIG. 7

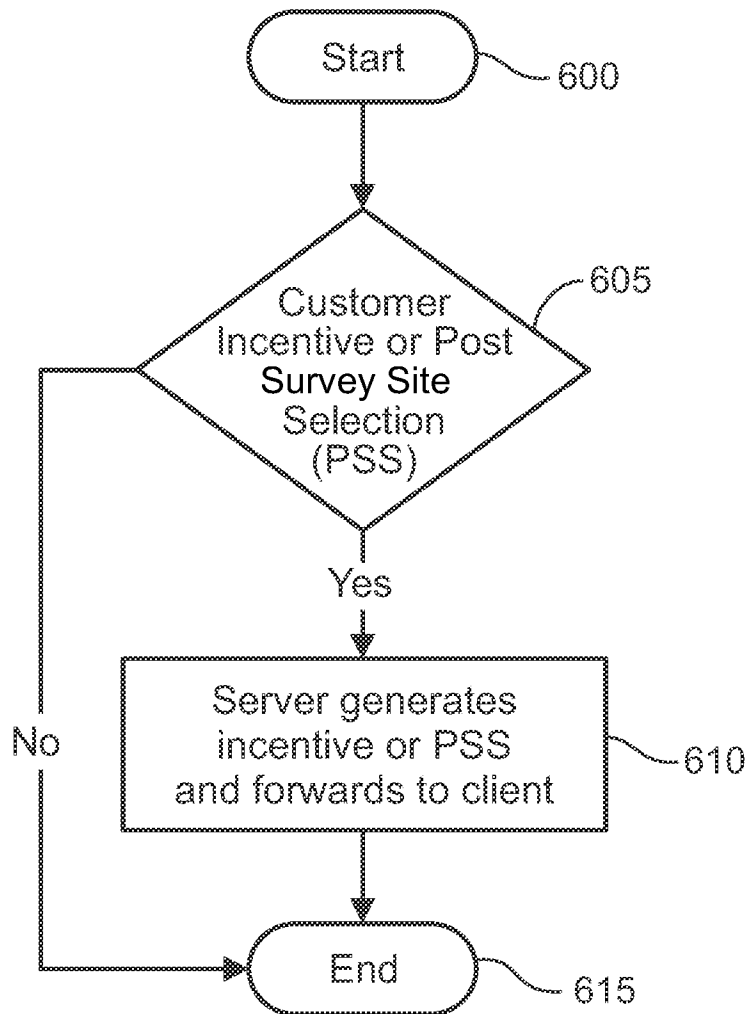


FIG. 8

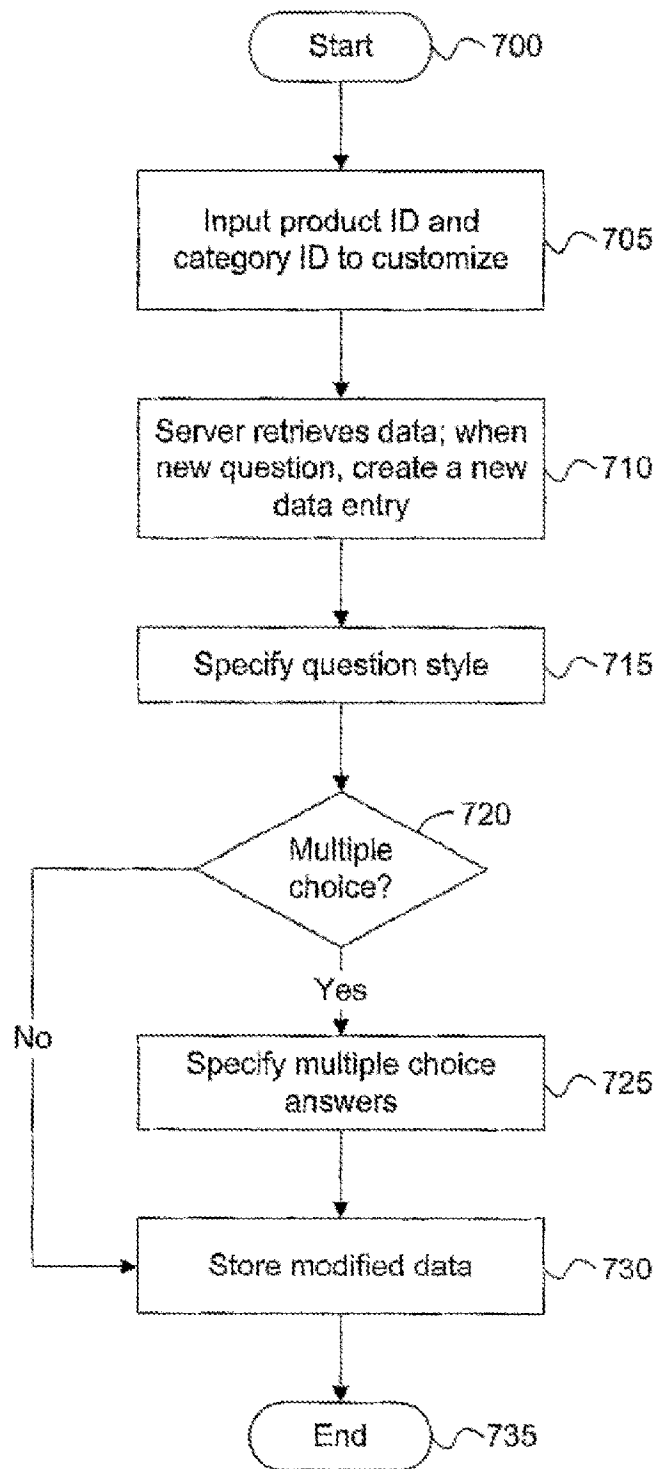


FIG. 9

810 {

Did you enjoy your boneless wings?

No Not Really Yes Very Good Great!!

Did you enjoy your Taco Salad?

Very Bad Not Good Acceptable Good Great!!

How was your server, Tiffany?

Very Bad Not Good Acceptable Good Great!!

Will you return?

Yes No

Done

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

First Named Inventor/Applicant Name:

Steven A. Roberts

Filer:

Jeffrey Bruce Fabian/Charise Christianson

Attorney Docket Number:

A12875-088356

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:

LATE FILING FEE FOR OATH OR DECLARATION	2051	1	80	80
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Petition:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				865

Electronic Acknowledgement Receipt

EFS ID:	36446183
Application Number:	16456490
International Application Number:	
Confirmation Number:	1092
Title of Invention:	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM
First Named Inventor/Applicant Name:	Steven A. Roberts
Customer Number:	57838
Filer:	Jeffrey Bruce Fabian/Charise Christianson
Filer Authorized By:	Jeffrey Bruce Fabian
Attorney Docket Number:	A12875-088356
Receipt Date:	28-JUN-2019
Filing Date:	
Time Stamp:	14:16:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$865
RAM confirmation Number	070119INTEFSW00000456505605
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	Application Data Sheet	ADS_Continuation_in_Part.pdf	133134	no	9
			d11dd350ac23ca1301466e0ab815142c47a dc74f		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2		Second_Continuation_Patent_Application.pdf	388828	yes	59
			a1ac1d888e42f19bcb2a08759cea8b6a 60591		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	50	
	Claims		51	58	
	Abstract		59	59	
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	Continuation_in_Part_IDS.pdf	50686	no	6
			75ec866116017b1f14fa5e29e56be783f656 8968		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Non Patent Literature	NPL_SHANKA_ETAL.pdf	1653133	no	12
			c4f77a7648477b3c4c536ab92ae278e8470 608f4		
Warnings:					
Information:					

5	Non Patent Literature	NPL_LANG.pdf	5275362 3cd856233c4c003ee51fbdacc193ecd46014b45	no	145
Warnings:					
Information:					
6	Non Patent Literature	NPL_BORZEKOWSKI_ETAL.pdf	1212463 2f1216e70063bb335170b0353ea333b7a2ad23fa	no	34
Warnings:					
Information:					
7	Drawings-only black and white line drawings	Drawings_Second_Continuation2.pdf	6085577 5eb1694ebbb01b3463e03538ccb9aa4e4b2f09e	no	9
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	37054 ebbf48d72ab46633fa734dc8d62350cb04e7a723	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			14836237		
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.					

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1							
Legal Name							
Prefix	Given Name	Middle Name		Family Name		Suffix	
	Steven	A.		Roberts			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service							
City	Tampa	State/Province	FL	Country of Residence	US		
Mailing Address of Inventor:							
Address 1		4010 W. Boy Scout Blvd.					
Address 2		Suite 300					
City	Tampa			State/Province	FL		
Postal Code	33607			Country	US		
Inventor 2							
Legal Name							
Prefix	Given Name	Middle Name		Family Name		Suffix	
	Drew			Peloubet			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service							
City	Tampa	State/Province	FL	Country of Residence	US		
Mailing Address of Inventor:							
Address 1		4010 W. Boy Scout Blvd.					
Address 2		Suite 300					
City	Tampa			State/Province	FL		
Postal Code	33607			Country	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. 							

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

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

Customer Number	57838		
Email Address	jfabian@shumaker.com	Add Email	Remove Email
Email Address	patdocketing@slk-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		
Attorney Docket Number	A12875-088356	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	9	Suggested Figure for Publication (if any)	

Filing By Reference:

I jwam njcrrc rf gqargri ufcl dgg e l nnjga rgrl wpcdpc l ac sl bcp13 S A /// a(l b 15 ADP / 35 (Bml nr am njcrrc rf gqargri gl nnjga rgrl n ncpdg ajs bge qncagga rgrl l b l wbp uge eq pc cge dgg b l wbm cqrq cl cdy nppdpcgl nppnwg dhp rgrl s q c nprtdcbg rfc nppmrg rc qargri q c jmu gc "Bm cqrq cl cdy rgrl j r ec l dhp rgrl " l b "Dm pge l Nppnwg l dhp rgrl "(Dm pfc ns pmpc qnd dgg e b rc sl bcp15 ADP / 31 (rfc bcqppn rgrl l b l wbp uge qnd rfc nppcql r nnjga rgrl pc pncj acb wrf gq pcdpc l ac rmrf c npt gns qwdgg b nnjga rgrl q hcar rmanl bggrl q l b pcos gpc cl r qnd 15 ADP / 35 (		
nn a rml l s cpndrf c npt ns dcb nn a rml	Dgg e (	l rc car pncp r pr pA l rp

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing. ☐

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	57838		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation in part of	16279387	2019-02-19
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16279387	Continuation of	14997434	2016-01-15
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14997434	Claims benefit of provisional	62104043	2015-01-15
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).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove
			Access Code (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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

☐	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	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

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)

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

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](#)

☒ Inventor
☐ Legal Representative under 35 U.S.C. 117
☐ Joint Inventor
☐ 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. ☒

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Country	US	Postal Code	33607
Phone Number		Fax Number	
Email Address			

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Assignee Information including Non-Applicant Assignee Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

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:

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

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

Signature:

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

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

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

Signature	/Jeffrey B. Fabian/		Date (YYYY-MM-DD)	2019-06-28
First Name	Jeffrey B.	Last Name	Fabian	Registration Number
70164				

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	A12875-088356
		Application Number	
Title of Invention	TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM		

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

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TRANSACTION-SPECIFIC CUSTOMER SURVEY SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

[001] This application is a continuation in part of co-pending U.S. Non-provisional Application 16/279,387 filed February 19, 2019, which application is incorporated herein by reference.

TECHNICAL FIELD

[002] The present invention relates to a computer method and system for receiving customer feedback and information relating to a purchase, and more particularly, automatically generating a particular questionnaire for each purchase and linking the questionnaire results to transaction data.

BACKGROUND

[003] In any business, keeping customers satisfied is critical. Many techniques have been used to determine the level of customer satisfaction. One technique provides for analyzing sales histories and related product matrices. However, only limited information is typically gathered from sales histories. For example, while analyzing sales history for a particular product or group of products may provide information about which products are beginning to weaken in sales, little if any information is provided about why particular products are slowing in sales. Furthermore, although sales history may provide information about regional buying trends, it usually cannot indicate why a particular customer was dissatisfied.

[004] Getting customer response through the use of generic surveys has several disadvantages. First, surveys tend to be impersonal and ask general questions such as “How was your meal?” or “Would you shop here again?” that are not unique to a particular customer’s experience. Second, surveys are often unnecessarily cumbersome to complete. For example, a

survey may ask for the product name, identifier (survey token), serial number, store purchased from, purchase price, purchase date, and a host of other questions unrelated to a particular customer's feedback. While the answers to these questions may be important to determine which product or service the customer is commenting on, a customer looking over this type of survey often determines that too much work must be done that is unrelated to their particular transaction and foregoes answering any of the questions in the survey.

[005] Many merchants, such as retail establishments, restaurants and other service providers, use modern Point-of-Sale (POS) systems that capture rich details around their customers' purchasing activity. This information, herein referred to as a customer-check, receipt, bill or simply check, however, has never been made available for the customer to interact with in terms of survey and satisfaction. With most POS systems, check-level data can include: the server or cashier, the date and time of service, the check duration, the table, the location, the mode, and each item ordered on the check plus modifications, comps, etc. applied to the check – this is *rich* data to the customer. Other systems provide customer satisfaction surveys but they ask only a pre-determined set of questions and rarely (if ever) provide actual feedback on the customers' specific experience. To get check-level survey information many businesses hire "Secret Shoppers" (secret only in that the merchant does not know they are professional consumer/survey takers) to provide feedback on service, product purchases, and experience.

[006] What is needed is a system that allows customers to provide valuable feedback for merchants not only through pre-set survey campaigns or template(s), but also in obtaining detailed feedback on the customer's specific experience such as the actual items sold, the transaction amounts (*i.e.*, price), the server (*i.e.*, waitress or waiter), the table, the time of day, the mode of service delivery (*i.e.*, sitting down at a table, drive through, delivery), and more.

SUMMARY

[007] The invention includes method and system for automatically generating context-based survey questions predicated on the customers' actual purchase experience with the merchant, thus eliminating for the customer the need to respond to obvious, redundant, and even irrelevant questions, and providing to the merchant customer feedback directly bound to the actual purchase event and correlating data. Purchase information is stored at the time of purchase as transaction data, and the customer is given an identifier for the purchase. The transaction data may be stored locally to a point-of-sale ("POS") device or to a remote location, such as a cloud service provider. Then, at the customer's convenience, either at the point of sale or through a networked computer, the customer can provide responses to questions that are selectively and automatically generated based on the items purchased, or other definable attributes associated with the sale, and based upon configurable preferences of the merchant included within a Campaign data structure. Survey questions are displayed and feedback responses are stored, analyzed and associated with transaction data in real time.

[008] In accordance with the present invention, there is provided a method and system for automatically generating questions, receiving customer feedback, and associating the feedback with transaction data. With this invention, transaction data is stored at the time of purchase and the customer is given a survey token correlating to the purchase. The token can be any data or information that is useful for identifying the customer or transaction, such as a (i) randomly generated number; (ii) a customer account ID, or (iii) a combination of transaction data elements, such a facility identifier and the date and time of the transaction. Then, at the customer's convenience, either at the point of sale or through any web-enabled device, the customer can

provide feedback to questions that specifically relate to the items purchased. This feedback is then stored, associated with the purchase information, and immediately available for analysis.

[0009] Specifically, in accordance with the present invention, there is provided a method of providing a web-service (WS) that allows merchants, such as retailers and service providers, to integrate a check-level survey module into their own branded web-site using java tags or any suitable means known to one of skill in the art. This WS feature allows customers to participate in a survey within the merchant's web-site and to interact with their check details and other survey features being delivered to the merchant web-site using a Customer Survey Module (CSM or GSM (Guest Survey Module)) web-service as the data-integration and storage platform.

[0010] The invention may be implemented as a computer process, a computing system or as an article of manufacture such as a computer program product or computer readable media. The computer program product may be instructions for executing a computer process encoded on a computer storage media readable by a computer system. The computer program product may also be instructions for executing a computer process encoded on a propagated signal on a carrier readable by a computing system.

[0011] These and various other features as well as advantages, which characterize the present invention, will be apparent from a reading of the following detailed description and a review of the associated drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012] FIG. 1 is a block diagram of a system according to one embodiment of the invention.

[0013] FIG. 2 shows a block diagram for a system for receiving customer feedback in a GSM-Web Services configuration;

[0014] FIG. 3 illustrates a flow chart for generating questions and receiving feedback related to a purchase;

[0015] FIG. 4 illustrates a flow chart for gathering information relating to a purchase and associating a survey token with the purchase;

[0016] FIG. 5 shows a flow chart for automatically gathering feedback associated with a purchase;

[0017] FIG. 6 illustrates a flow chart for automatically generating questions for a purchase;

[0018] FIG. 7 illustrates a flow chart for automatically generating incentives or such as promotions to reward customer feedback;

[0019] FIG. 8 shows a flow chart for specifying merchant preferences for reporting and/or for questions automatically generated for purchases;

[0020] FIG. 9 shows an example questionnaire that includes a list of feedback questions that could be asked of a customer; and

DETAILED DESCRIPTION

[0021] In the following detailed description of example embodiments of the invention, reference is made to the accompanied drawings, which form a part hereof, and which are shown by way of illustration, specific illustrative embodiments of which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that other embodiments may be utilized, and other changes may be made, without departing from the spirit or scope of the present invention. The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is defined only by the appended claims.

[0022] The inventive survey system is described below. For the sake of illustration a scenario involving a customary transaction at a dining establishment is presented. The invention,

however, is not limited to such transactions. As one will appreciate after reading the following description, the inventive system has equal utility in other commercial transactions including, but not limited to, retail, wholesale, online sales, hospitality, hotel, fine dining, fast food and other product or service transactions

[0023] FIG. 1 is a block diagram of a system **10** according to one embodiment of the invention. The system **10** combines product/service, transaction, employee, team and facility data and customers' experiences during commercial transactions to provide various metrics associated with the performance of a particular employee, team, store(s)/region (*e.g.*, a facility), for example, metrics related to customer feedback, employee performance metrics, and process improvement metrics for the facility. As used herein, instructions and/or rules mean computer executable instructions. It should also be noted that the term "customer" is synonymous with the term "guest" and term "user" generally denotes an individual associated with a merchant that utilizes the system disclosed herein.

[0024] System **10** includes a processor **12** connected to a database **14**, a set of computer-executable instructions stored in a memory **18**, a plurality of survey questions **20**, and an interactive customer interface **40**. Database **14** can store information from multiple facilities **24**. As shown, there may be more than one facility **24** (*e.g.*, Facility #1, Facility #2, Facility #N). For example, Database **14** stores facility information **26** regarding an identity of a particular facility; employee information **28** regarding the identity of each employee at the facility and their performance over a period of time; product/service information **30** identifying products/services available for purchase at each facility; transactional information **32** regarding the amount of product/services sold to a particular customer during a particular transaction, metrics regarding

sales quota, and the like; and customer information 34 such as a customer's identity, e-mail address, enrollment in a loyalty program and other particulars.

[0025] In addition, Database 14 is populated with customer feedback information 36 regarding a commercial transaction made by the customer, via survey, after purchasing a product/service at one of the facilities 24. For example, a customer who has purchased a product/service at a facility 24 can access a customer interface 40 through various modalities (e.g., kiosk, mobile application or website) to provide feedback 36 (e.g., via surveys) regarding the specific commercial transaction. In general, as used herein, an interface is a component of computer executable instructions stored in a tangible, non-transitory medium and executed by processor 12 to present a display of information related to the interface allowing someone to view and/or interact with the presented information.

[0026] Processor 12 executes computer-executable instructions that are stored in memory 18, which instruct processor 12 to utilize the facility information 26, employee information 28, product information 30, and transactional information 32 for each facility 24 in order to generate invitations for customers 38 to respond to surveys 20 regarding their transactions. For example, in one embodiment, processor 12 executes the computer-executable instructions for processing the facility data 24 to determine which of the facility's customers 38 will receive a survey. The customer feedback 36 is stored in Database 14 and related to the customer information 34 identifying a particular customer 38.

[0027] In a preferred embodiment, processor 12 executes the computer-executable instructions for processing the facility data 24 to identify the facility's customers 38. Invitations to the survey can be transmitted by email or through a mobile application on the customer's electronic device. Alternatively, the URL of a website through which the customer can access the

survey can be printed on the customers transaction receipt. The customer feedback **36** is stored in Database **14** and related to the customer information **34** identifying a particular customer **38**. Further, processor **12** executes computer-executable instructions for processing transaction information **32** to determine the composition of the survey to be delivered to customer.

[0028] All data categories or purchase detail identifiers can be organized into database records called Attribute Groups. An Attribute Group is a collection of data classes or purchase detail identifiers sharing a preselected attribute and that are, thus, organized according to definable and changeable merchant user defined, or auto generated criteria. For example, facilities can be organized into a plurality of Attribute Groups where all facilities in the Attribute Group share a preselected attribute, like facility size. The preselected attribute criteria for a facility Attribute Group could be, for example, square footage so that all facilities within a given range of square footage are grouped together. Other illustrative criteria could be facilities located in shopping malls, facilities opened within the last six months, or menu items identified by the merchant as being seasonal menu items. Any attribute criteria are suitable for defining an Attribute Group.

[0029] Attribute Groups can also be used for other data categories (*i.e.*, purchase detail identifiers) as well. Employees, for example, can be placed in Attribute Groups based on sharing attributes related to location, seniority, title, status, education, attendance record or demographic information. All data categories and purchase detail identifiers are capable of being placed in Attribute Groups. Accordingly, and using FIG. 1 as an example, Attribute Groups can be meta-data references to sets of facility information **26**, employee information **28**, product information **30**, transactional information **32** and customer information **34**. Similarly Attribute Groups can be larger meta-data references to sets of facilities **24**.

[0030] FIG. 2 shows a block diagram for a system for receiving customer feedback in a client/server configuration. POS client **100** includes point of sales (POS) terminal **105**, purchase detail component **110**, purchase system client to server interface **115** and web pages **160**. POS terminal **105** represents anywhere a purchase takes place and includes on-line purchasing, restaurants, grocery stores, department stores, and other places where goods or services are purchased. Purchase detail component **110** collects transaction data that may include price, quantity, and name of each item purchased, time and date of purchase, employees on duty, the mode of service delivery, and/or any other relevant information associated with a purchase. The purchase detail component **110** may store transaction data locally to a POS device, a merchant server, or to a remote location, such as a cloud service provider. When a customer uses a loyalty card or some other means of identification during the purchase, purchase detail component **110** may collect a survey token that identifies the particular customer or transaction. As used herein a “token” can be any identifying information that identifies a particular customer or transaction. In the case of a customer token, for example, the token can be a unique identifier generated at the point of sale or the token can be a loyalty program account number. The customer token can also be a name, email address or the like. The token can be generated by the point of sale system or can be connected to the merchant’s customer records management (CRM) software and/or loyalty program database.

[0031] The token can also be a composite of multiple types of data. For example, the token can comprise a facility identification number, transaction number (*e.g.*, a receipt or check number), and transaction date. Similarly the token can comprise a facility identification number, register number and employee identification. These and many other data points are often present on checks/receipts and can be used in combination as a token.

[0032] All data received from a vendor is normalized for full data alignment. For example, continuing with the example of a restaurant transaction, different vendors convey the same information differently. A hamburger on a check from a first vendor may state “Hamburger” while a second vendor may list it as “HMBRG” while a third vendor may list the item under a name such as “Super Bacon Burger.”

[0033] Purchase system client to server interface **115** provides an interface between purchase system client **100** and server **140**. Purchase system client **100** communicates with server **140** through communication link **132**.

[0034] A typical server **140** includes server engine **145**, response table **165**, and purchase detail table **170**. Server engine **145** includes purchase question generator module **150** and question response module **155**. Server **140** includes communications link **132** to purchase system client **100** and communication link **135** to customer response client **120**. Purchase question generator module **150** generates questions based on purchase information stored in purchase detail table **170** and preference data associated with merchant preferences. The merchant preferences can be formatted as a Campaign, which is a data structure that includes Conditions, Survey Questions, Events, Incentives, Exit Pages, groupings and general logic utilized in constructing Survey Questions, as explained in more detail below. Question response module **155** receives customer responses from customer response client **120**. Web pages **160** enable customer response client **120** to include a web browser that provides a customizable interface for collecting customer responses (feedback). Response table **165** stores customer responses and a survey token for referencing purchase detail table **170**. Purchase detail table **170** stores purchase detail as transaction data that is collected on purchase system client **100** and associates a survey token and possibly a customer survey token with each entry.

[0035] In some circumstances, not all purchase detail collected may be stored in purchase detail table **170**. For example, a merchant may pre-determine that the server should not ask any questions related to certain items. Rather than consume disk space storing purchase detail related to the items, the server may omit storing the items altogether. Alternatively, a purchase detail line may be deleted from purchase detail table **170** when it is determined that it is no longer needed. For example, certain purchase detail transaction lines may trigger purchase generator module **150** to generate a question, while other transaction lines may not cause a question to be generated. In one embodiment, during these scenarios, the transaction lines not triggering a question are deleted to conserve storage space and/or decrease access time to the other remaining transaction lines.

[0036] In a preferred embodiment, however, the check data is stored so that the survey can be contrasted with all of the check details. It is possible, however, to ignore some check items, as determined by the merchant user's discretion (although they are still stored) when generating survey questions. The existence or absence of a product/item, in the purchase table can be a factor to trigger a survey question.

[0037] Customer response client **120** is comprised of browser **130** and survey token **125**. It is appreciated that browser **130** may be a web browser, application program, or any device capable of reading web pages. Survey token **125** is typically the same survey token given to the customer at the time of the sale and associated with the customer's purchase in purchase detail table **170**. Before submitting responses, a customer enters this survey token to identify the particular purchase for which the responses will be given.

[0038] While entering the unique survey token to identify the purchase, the customer may optionally enter a user ID and password to identify the customer. This enables tracking of

responses made by a particular customer. The purchasing behavior of the particular customer can be analyzed to provide a unique promotional experience. For example, a merchant could incentivize customer feedback by giving points or coupons to repeat customers who provide feedback regarding their purchasing experience. Alternatively, customer data can be captured through the use of a Website Contact Module (discussed below).

[0039] Purchase system client **100**, server **140**, and customer response client **120** may reside on the same electronic device or may reside on separate electronic devices. Additionally, one or more of the system components can be implemented on separate systems or electronic devices, such as when the purchase detail database **110** resides in a remote cloud service provider separate from the purchase system client **100**.

[0040] Computing devices, such as the ones shown in FIG. 2, typically include at least some form of computer-readable media. Computer readable media can be any available media that can be accessed by the computing device. By way of example, computer-readable media might comprise computer storage media and communication media.

[0041] Computer storage media includes volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structure, program modules or other data. Computer storage media includes RAM, ROM, EPROM, flash memory or other memory technology, CD-ROM, digital versatile disk (DVD) or other optical storage or any other medium that can be used to store the desired information and that can be accessed by a computing device.

[0042] Communication media typically embodies computer-readable instructions, data structures, program modules or other data in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. Combinations of any of

the above should also be included within the scope of computer-readable media. Computer-readable media may also be referred to as computer program product.

[0043] FIG. 3 illustrates a flow chart for generating questions and receiving feedback related to a purchase. The process starts at block **200** when a purchase is made.

[0044] At block **205**, a purchase occurs as described in detail in conjunction with FIG. 4. Briefly stated, a customer makes a purchase, details regarding the purchase are stored as transaction data, and a survey token identifying the purchase transaction is given to the customer where the token can be a customer account number, a combination of transaction data, or a randomly assigned value. For example, referring to FIG. 2, a customer makes a purchase at POS terminal **105**. Purchase detail (*i.e.*, transaction data) is sent to server **140**, and a survey token is generated and sent back to POS terminal **105** and given to the customer.

[0045] In one illustrative embodiment, the token may be a combination of the survey time and/or date, the merchant facility location where the transaction occurred, and/or the receipt number for the transaction. The customer utilizes the browser **130** to access the merchant's branded website and enters the transaction time and date, the merchant facility location, and the receipt number. A Java tag or widget embedded in the merchant's website transmits the token information along with a Campaign identification number to the server **140**. At block **210**, a determination is made as to whether a survey token is valid and a survey will be generated. When a survey is to be generated, the "yes" branch is followed and the server **140** retrieves the associated Campaign data structure that includes the merchant preference data before processing continues at block **215**. Otherwise, the "no" branch is followed and processing continues at block **225**. It will be appreciated that feedback may be provided immediately after the transaction or any time thereafter.

[0046] At block 215, feedback about a purchase is received as described in conjunction with FIG. 5. Briefly stated, a survey token associated with a purchase is entered into a client computer which forwards the survey token to a server 140. The server 140 retrieves the appropriate Campaign data structure and utilizes merchant preference data within the Campaign to generate questions related to the purchase and forwards the questions to the customer response client computer 120 for display within the merchant's branded website by the browser 130. The customer response client computer 120 receives the questions, solicits responses to the questions using the browser 130, and returns the responses to the server 140 which then stores them. For example, referring to FIG. 2, a customer uses browser 130 to connect to server 140 and to provide feedback regarding a purchase associated with unique survey token 125.

[0047] In another embodiment, a server 140 may pre-generate questions after the purchase details are forwarded to the server. Pre-generating questions may be done to move the generation of questions to off-peak compute times, to speed response when the customer provides feedback, or for other reasons. The generated questions may then be stored together with the survey token that is returned to the customer. When a user desires to provide feedback, the pre-generated questions may then be retrieved by the server 140 and sent to the customer response client computer 120 receiving feedback regarding the purchase.

[0048] At block 220, an incentive, such as a promotion, may be generated. For example, a merchant may incentivize customer feedback by giving points or coupons to repeat customers who provide feedback regarding their purchasing experience. For example, referring to FIG. 2, server 140 generates a promotion and forwards it to customer response client 120. At block 222, a customer may be redirected to a Post Survey Site Selection based in part of the content of the customer comments or feedback. As an example, if a customer provided positive feedback, the

system could redirect the customer browser **130** to a third party review site, such as Yelp!® or to a website where the customer can register for the merchant's loyalty program. Or if a customer left negative feedback, the customer browser **130** could be redirected to a merchant webpage apologizing for the customer experience and encouraging the customer to contact the merchant so that the merchant can address any issues surrounding a negative customer experience.

[0049] At block **225**, processing ends. At this point, details related to the purchase have been recorded. When feedback is received, this is also recorded and associated with the purchase. Both the purchase detail and the feedback may be immediately retrieved for analysis and reporting. A customer may be rewarded when the server determines that a promotion is appropriate.

[0050] FIG. 4 illustrates a flow chart for gathering information relating to a purchase and associating a survey token with the purchase. The process starts at block **300** when the purchase is made.

[0051] At block **305**, a customer employs client hardware and/or software (hereinafter referred to as the merchant, vendor, or client system **100**) to make a purchase. Client hardware includes cash registers, personal computers, hand-held devices, multiprocessor systems, microprocessor-based or programmable consumer electronics, network PCs, minicomputers, mainframe computers, and the like. Client software typically executes on client hardware and works in conjunction with the hardware to enable the customer to make the purchase and to perform various other functions described in conjunction with FIG. 4. For example, referring to FIG. 2, a customer employs purchase system client **100** to make a purchase.

[0052] At block **310**, purchase detail is collected by the client system. For example, referring to FIG. 2, the POS terminal **105** may collect price, quantity, and name of each item purchased,

time of purchase, employees working during purchase the mode of service delivery (*i.e.*, seated table, drive through, or delivery), and a survey token identifying the customer that is stored to the purchase detail component **110** either locally or at a remote location, such as a cloud service provider. An advantage of collecting this information is that the customer does not have to re-enter the purchase information when providing feedback about the purchase. Another advantage is that information the customer may be unaware of and should not need to be concerned with may also be collected such as manager on duty, cashier, supervisor, employee, technician, etc.

[0053] Yet another advantage is that the purchase detail can be used to generate customized questionnaires automatically. For example, instead of asking “How was your food?” or “Would you recommend us to a friend?” the purchase detail can be used to ask “How was your foot-long meatball sub?” “Did you enjoy the view from your room on the third floor?” or “How was your server, Joan?” Such transaction-related questions may aid the customer in providing more accurate and relevant answers. Furthermore, because a customer is not required to fill in details regarding the purchase such as what they ate, what item they purchased, the time and date of the transaction, etc., the customer may determine that the questionnaire will not require too much time to complete and may be more willing to complete it.

[0054] At block **315**, the purchase detail is forwarded from the client system to a server. For example, referring to FIG. 2, purchase system client to server interface **115** sends the purchase detail to server **140**.

[0055] At block **320**, the server **140** receives the purchase detail as transaction data, assigns a survey token to the purchase detail, and stores the purchase detail with the survey token for future access. This allows the server **140** to retrieve the purchase detail when a client system identifies the purchase by giving the survey token. Typically, the survey token assigned will be

unique with respect to other IDs stored. Over time, however, IDs may be reused. For example, after a purchase detail associated with a survey token is no longer needed, it may be deleted or archived. When the purchase detail is deleted or archived, the survey token may be available for use in identifying another purchase detail. For example, referring to FIG. 2, server **140** receives purchase detail from purchase system client to server interface **115**. Then, server **140** generates a survey token and stores the purchase detail with the survey token in detail table **170**.

[0056] At block **325**, the server **140** sends the survey token to the client system. This allows the client system to give the survey token to a customer for use when the customer provides feedback. For example, referring to FIG. 2, server **140** sends purchase system client **100** the survey token. In other embodiments, the purchase system client **100** can generate the token at the point of purchase and transmit the token to the server **140**.

[0057] At block **330**, processing ends. At this point, the client system has collected purchase detail and forwarded it to the server **140**. The server **140** has generated a survey token and stored the purchase detail with it for future use. Additionally, the server **140** has sent the survey token to the client system so that it may give the survey token to the customer, or alternatively, the server **140** has received and stored a token generated by the client system.

[0058] It will be appreciated that the client system may give the survey token to the customer in many ways, including displaying it for the customer to read, storing it in a file on a computer, such as in a cookie, printing it on a bar code on a receipt or check given to the customer, encoding it on a loyalty card presented by the customer, encoding it on a ticket given to the customer, transmitting it to the customer through electronic mail, transmitting it to a wireless personal communication device, and the like.

[0059] In one embodiment of the invention, purchase detail is forwarded by the POS terminal **105** to a cloud service provider or the server **140** at the time of the purchase. In another embodiment of the invention, purchase detail is forwarded in batches. When purchase detail is forwarded in batches, the survey token may be generated differently. When a customer is ready to complete a purchase transaction, typically, the customer desires to be finished as soon as possible. For example, when checking out of a grocery store a customer typically wants to pay for the items purchased and take the groceries to the car. When leaving a restaurant, a customer typically wants to pay the waiter or cashier and leave. When purchase details are sent as a batch, depending on the batch size and the number of customers, it may take several minutes or hours before a batch is sent. A customer would not likely wish to wait the minutes or hours for the batch to be sent and a survey token to be returned to the customer for use during feedback.

[0060] The wait for a survey token in a batched system may be avoided by having the client system generate a survey token immediately which it displays to the customer. Upon sending of the batched information, the client system would also send the survey token so that the server system could store the survey token given to the customer with the purchase made by the customer. In this embodiment of the invention, the server does not need to generate the survey token or send it back to the client because the client generated it. Many clients' systems, however, may be active simultaneously. Without proper integration, the client systems may assign the same survey token to two different purchases. In light of this disclosure, it will be recognized that in a batched system a method or system for avoiding or dealing with duplicate IDs may be required. One system, for example, for avoiding duplicate IDs is to assign each client a unique client survey token and to have the client embed its unique client survey token in IDs

the client generates, thus creating IDs that uniquely identify purchases when multiple clients are employed in a batched system.

[0061] FIG. 5 shows a flow chart for automatically gathering feedback associated with a purchase. The process starts at block **400** when a user is ready to provide feedback regarding a purchase transaction.

[0062] At block **405**, a survey token is inputted into a customer response client. Inputting the survey token into the customer response client may be done in many ways, including entering the survey token on a keyboard, using a computer on which the survey token was stored as a cookie or otherwise, scanning a bar code, swiping a loyalty card containing the survey token, etc. For example, referring to FIG. 2, a customer uses customer response client **120** to input unique survey token **125** into browser **130**.

[0063] At block **410**, the customer response client forwards the survey token to the server. For example, referring to FIG. 2, customer response client **120** forwards unique survey token **125** to server **140**. At block **415**, the server retrieves purchase detail associated with the survey token and retrieves the associated Campaign data structure and generates a survey comprised of a set of Survey Questions relating to the purchase as described in detail in conjunction with FIG. 6. Briefly, the questions generated can be related to the items purchased, the transaction amounts (*i.e.*, price), the server (*i.e.*, waitress or waiter), the table, the time of day, the mode of service delivery (*i.e.*, sitting down at a table, drive through, delivery), prior survey responses, and preference data associated with merchant preferences included within a Campaign data structure. For example, referring to FIG. 2, server **140** uses the survey token to retrieve related purchase information in purchase detail table **170**. Then, purchase question generator module **150** generates questions based on the detail retrieved. Typically, these questions are then formatted

into web pages **160** that can be embedded into a merchant's branded website and sent to the customer browser **130**.

[0064] Surveys are created using the transaction data as well as the Campaign data structure, which includes configurable Conditions, Survey Questions, and branching logic set according to merchant preferences. The questions can be prepared outside of the Campaign, as discussed in more detail below, and subsequently assigned to a given Campaign by a merchant user designing the survey. The Campaign data structure is comprised of a series of actions that can be organized into Attribute Groups where the actions include Survey Questions, Conditions, Exit Pages, Events, and Incentives.

[0065] The survey may be assembled into an autonomous, self-contained, web-container package with branching logic that changes the questions presented or the order of the questions presented based upon a survey respondent's answers to prior survey questions. In this instance, the answers can likewise be assembled into a single, self-contained package. In this manner, the system **100** can minimize the required communication between system devices that could delay survey processing.

[0066] At block **420**, the questions are displayed to the customer and answers are collected. Then, the answers are sent to the server **140**. When a customer does not answer one or more questions, the response(s) of not answering for the one or more questions may also be sent to the server. For example, referring to FIG. 2, browser **130** reads the questions on web pages **160** and displays them to the customer. The customer answers the questions by using browser **130** and indicates that the answers are completed. Then, browser **130** sends the answers to server **140** for use in question response module **155**. The answers may be sent one-at-a-time in real time to the server, or, alternatively, answers may be grouped together and sent to the server in batches.

[0067] At block 425, the server 140 stores the answers together with the survey token for future analysis. When the server stores the answers, they are immediately available for analysis. For example, referring to FIG. 2, server 140 stores the answers with the survey token in question response table 165. At block 430, processing completes. At this point, questions related to a purchase have been generated, and feedback has been received and stored for analysis and reporting.

[0068] FIG. 6 illustrates a flow chart for automatically generating questions for a purchase. The process starts at block 500 when a user is ready to provide feedback regarding a purchase transaction. At block 505, the server 140 locates purchase detail associated with the purchase that was previously stored on the server as transaction data as well as the applicable Campaign data structure including merchant preferences. The purchase detail can include a wide variety of data elements or vendor data categories relating to the customer experience, including the items purchased (using a product identifier), transaction amounts (*i.e.*, price), the server (*i.e.*, waitress or waiter), the table, the time of day, the mode of service delivery, and more. The server 140 typically retrieves the purchase detail by using a survey token supplied by the user. Usually, the survey token is associated with the purchase detail previously stored on the server as transaction data. For example, referring to FIG. 2, server 140 locates purchase detail associated with the survey token from purchase detail table 170.

[0069] At block 510, the server 140 retrieves a first transaction line from the purchase detail the server 140 previously located. A purchase may include many vendor data categories (*e.g.*, items purchased, server identifier, mode of service delivery identifier) and each vendor data category may be associated with a different transaction line. For example, a restaurant check may

have appetizers, entrees and drinks each on separate transaction lines. Referring to FIG. 2, for example, server **140** reads a first transaction line from the purchase detail.

[0070] At block **515**, the transaction line is searched for merchant specified data categories. When a data category in the transaction line matches a merchant's specified category, a question about the data category may be generated depending on Conditions associated with merchant preferences in the Campaign data structure. The merchant may prefer to generate one type of question when the customer is seated at an inside table or when alcohol is purchased and another type of question when the customer is seated at an outside table or purchases soft drinks. For example, referring to FIG. 2, purchase question generator module **150** determines if a data category in the retrieved transaction line matches a merchant specified category. When a data category in the retrieved transaction line matches a merchant specified category, the purchase question generator module **150** may generate a question. At block **520**, the server retrieves the next detail transaction line (if it exists) from the purchase detail. For example, referring to FIG. 2, server **140** reads the next transaction line from the purchase detail.

[0071] At block **525**, a determination is made as to whether either no more transaction lines exist for the purchase or whether a maximum number of questions have been generated regarding the purchase. When either of these Conditions exists, the "yes" branch is followed to block **530**. Otherwise, the no branch is followed to block **515**. For example, referring to FIG. 2, server **140** determines when additional transaction lines exist for a purchase and purchase question generator module **150** determines when the maximum number of questions has been generated.

[0072] At block **530**, the server generates additional questions based on preference data associated with merchant preferences in the Campaign data structure. The merchant may prefer,

for example, that a question be asked regarding the quality of service rendered to the customer in addition to other questions related to specific transaction lines. For example, referring to FIG. 2, purchase question generator module applies preference data associated with merchant preferences to add additional questions to be asked to the customer.

[0073] At block 535, the server 140 sends the generated questions to the customer response client computer 120. The server 140 may do so by populating the merchant's web pages 160 that the client computer 120 accesses. For example, referring to FIG. 2, purchase question generator module 150 completes the list of questions to be asked and populates web pages 160 to be read by customer response client 120.

[0074] At block 540, processing ends. At this point, questions have been generated based on the items purchased and preference data associated with merchant preferences. These questions have been made available to the customer, typically in the form of web pages.

[0075] It will be appreciated that merchant preferences may cause questions to be generated that depend on previous questions generated and responses received. For example, a merchant may prefer that a particular question no longer be generated when no or few customers queried respond to it. In addition, a merchant may prefer that a question that has been answered numerous times no longer be generated as a large enough sample has been generated for analysis. The merchant may specify that after the question has been answered a certain number of times that another question be asked instead of the question.

[0076] FIG. 7 illustrates a flow chart for automatically generating incentives or customer Post Survey Site Selections, such as promotions, to reward and encourage customer feedback or a redirection to a separate website where the customer can provide additional reviews or register

for merchant loyalty accounts, among other activities. The process starts at block **600** when a user has provided feedback regarding a purchase transaction.

[0077] At block **605**, a determination is made as to whether an incentive or Post Survey Site Selection should be generated. The determination may depend on many factors including how many questionnaires a customer has completed, advertising needs for a particular product, the substance feedback the customer provides including whether it was positive or negative, items in the purchase transaction, random generations calculated to promote customer feedback, and/or any other factor(s) a merchant prefers. For example, a positive determination to generate a promotion or Post Survey Site Selection may occur when a customer provides positive feedback for a television (or other electronic device) for selected questions of a questionnaire. The system may determine, for example, that the customer should be given a coupon giving a discount on a selected DVD or should be redirected to leave a public review on the merchant's website or a third party site (*e.g.*, a Google® review) concerning the television. When it is determined that a promotion or Post Survey Site Selection should be generated, the yes branch is followed to block **610**. Otherwise, the no block is followed to block **615**.

[0078] At block **610**, the server generates an incentive (*e.g.*, a promotion) or Post Survey Site Selection and forwards it to a client computer to give to the customer or to redirect the customer browser **130**. The client computer may prompt the customer to save the promotion for future use or to print a coupon. When the customer elects to save the promotion, it may be saved on the server **140** and a survey token identifying the customer may be required. For example, referring to FIG. 2, server **140** generates a promotion and forwards it to customer response client **120**. At block **615**, processing ends. At this point an incentive, when generated, has been forwarded to a customer response client computer **120** and given to the customer.

[0079] FIG. 8 shows an example flow chart for creating survey questions. The process starts at block 700 when a merchant user desires to create a set of questions that can be included within a Campaign data structure with other merchant preferences. FIG. 8 illustrates creating questions according to product identifiers, but those of skill in the art will appreciate that the method is applicable to specifying questions with regard to other merchant data categories available within transaction data. For instance, the survey could be constructed to only present questions directed to the facility, mode of service delivery, and/or the server (*e.g.*, waiter or waitress) so that the survey is agnostic with regard to the actual items or products purchased by the customer.

[0080] At block 705, the merchant user inputs a product identifier and a category identifier. The product identifier and category identifier identify the product or products for which preferences will be set. For example, the merchant user may enter a product identifier identifying a type of steak and category identifier identifying entrees. Referring to FIG. 2, for example, a merchant user uses a client computer (not shown) to connect to server 140 and enters a product identifier and a category identifier. At block 710, the server retrieves preference data related to the product identifier and the category ID identifier.

[0081] At block 715, the user specifies a question style and corresponding answer style. Question styles include multiple choice, yes/no, fill in the blank, rating scales, free form text responses, and the like. Question styles include questions that could be asked in a paper survey. The merchant user can also select permitted answer types, such as (i) a rating with a permissible number of stars (*e.g.*, any number between two to eleven stars), (ii) a multiple select answer (*i.e.*, the user may select multiple check boxes or radio buttons), (iii) a single select answer, selection of elements from a two-dimensional matrix of responses (*e.g.*, selection of preferred days across a horizontal row and preferred times across a vertical column), (iv) an ordered list of responses

(e.g., favorite menu items from most to least favorite), (v) a ribbon answer selection, such as a set of selectable icons, thumbnail pictures, etc.; or (vi) free text responses. Referring to FIG. 2, server **140** receives a selection as to which question and answer styles are desired.

[0082] At block **720**, a determination is made as to whether the question style selected is multiple choice. When it is, the “yes” branch is followed to block **725**. Otherwise, the “no” branch is followed to block **730**. For example, referring to FIG. 2, server **140** determines whether a multiple choice question style has been selected.

[0083] At block **725**, choices for a multiple choice question are selected. These choices are stored for use when the server is generating multiple choice questions regarding a purchase. For example, referring to FIG. 2, server **140** prompts the user for choices allowed in a multiple choice question.

[0084] At block **730**, the question style and information about the question are stored so that the server can access the information when it is generating questions regarding a purchase. Information about the question includes such things as product identifier, category identifier, text used for the question, where to insert an item description or name, and other information relevant to generating the question. For example, referring to FIG. 2, server **140** stores information about the question and the question style in a Campaign data structure (not shown) for use when purchase question generator module **145** generates questions.

[0085] At block **735**, processing ends. At this point a question style and information about a question have been stored on the server for use during automatic question generation. A merchant user creating the questions may add or change questions by repeating the process above.

[0086] FIG. 9 shows an example questionnaire that includes a list of feedback questions that could be asked of a customer. Questions 810 illustrate customer feedback questions with the names of example items purchased shown in italics along with multiple choice responses. It will be appreciated that the third and fourth feedback questions, “How was your service?” and “Will you return?” may be generated based on the preference of a merchant and may not be related to the actual items purchased.

[0087] The questions shown in FIG. 9 represent only a sample of questions that may be asked of a customer. Other question styles include star ratings, numerical ratings; fill in the blank, quality of service ratings, free form text responses, and the like.

[0088] An incentive may be provided for answering a questionnaire regarding a purchase. Illustrative incentives may include an offer for a 20% discount at the customer's next meal at Joe's. It will be appreciated that several different incentive programs could be used to encourage a customer to provide responses to a survey.

[0089] After specifying the merchant questions, a merchant user can specify merchant preference to include within the Campaign data structure that is comprised of a series of actions that include, for example: (i) Survey Questions; (ii) Configurable Conditions; (iii) Incentives; (iv) Exit Pages; and (v) Events that can all be implemented within specified Attribute Groups. When creating a Campaign, the merchant user first selects an action that can be associated with a Condition.

[0090] A wide variety of configurable Conditions can be specified as part of the Campaign. Typical Conditions can include, for instance, determining whether: (i) the transaction data includes a particular product/service identifier or a table identifier indicating the customer dined in the restaurant; (ii) the merchant facility where the transaction took place is part of a specified

category or group (*i.e.*, all locations within a mall, or all stand-alone locations, etc.); (iii) the transaction value amount fell within a particular range (*e.g.*, between fifty to one-hundred dollars); (iv) the receipt number entered by the customer match a stored receipt identifier stored in a database of historical transaction data; or (v) the prior survey responses fell within a certain rating range (*e.g.*, less than four stars out of ten, etc.).

[0091] Survey Question design with Conditions can be illustrated with the following simplified examples. The survey design can begin with the merchant user specifying a pre-designed Survey Question from a drop down menu that is to be included in the Campaign. The Survey Question is then associated with the Condition that the Survey Question is only asked when the transaction data includes certain information, such as only asking “How was your taco salad?” when the transaction data indicates that the customer purchased a taco salad or only asking “How was your waiter or waitress” when the transaction data indicates that the customer dined in as opposed to ordering delivery or carry out. The Condition can also depend not just on transaction data but also on prior Survey Question responses. For instance, the Survey Question “How long did it take to receive your order?” may be asked only if the Condition is met that the customer taking the survey answered a prior Survey Question by expressing dissatisfaction with the timing of the service.

[0092] An Exit Page selection as part of the survey design determines where the customer response client **120** browser **130** will be directed following the completion of a survey, which can occur as part of the Post-Survey Site Selection process. The Exit Page can likewise be associated with a Condition. To illustrate, the Exit Page may take the browser **130** to a merchant webpage advertising seasonal menu products based on a Condition that transaction data indicates the customer purchased a seasonal item. Or as another example, the Exit Page may direct the

browser 130 to a third-party review website if the customer's survey responses indicated the customer had a positive experience.

[0093] The Campaign design can also include Event actions associated with a Condition that trigger a particular response or communication. For instance, an Event may be classified as a concern, response, or recovery. A recovery Event can represent an instance where survey responses indicates the customer responding to the survey had a negative experience, which triggers a notification to the merchant about the negative experience, thereby allowing the merchant to contact the customer or take another action in response.

[0094] The various embodiments of the invention may be implemented as a sequence of computer implemented steps or program modules running on a computing system and/or as interconnected machine logic circuits or circuit modules within the computing system. The implementation is a matter of choice dependent on the performance requirements of the computing system implementing the invention. In light of this disclosure, it will be recognized by one skilled in the art that the functions and operation of the various embodiments disclosed may be implemented in software, in firmware, in special purpose digital logic, or any combination thereof without deviating from the spirit and scope of the present invention as recited within the claims attached hereto.

[0095] The above specification, examples and data provide a complete description of the invention. Since many embodiments of the invention can be made without departing from the spirit and scope of the invention, the invention resides in the claims hereinafter appended.

[0096] *Examples*

[0097] The following illustrative embodiments of individual modules can be implemented as a computer program product for use with a computer system. Such implementations may include

a series of computer instructions fixed either on a tangible medium, such as a computer readable medium (*e.g.*, a diskette, CD-ROM, ROM, or fixed disk) or transmittable to a computer system, via a modem or other interface device, such as a communications adapter connected to a network over a medium. The medium may be either a tangible medium (*e.g.*, optical or electrical communications lines) or a medium implemented with wireless techniques (*e.g.*, microwave, infrared or other transmission techniques). The series of computer instructions embodies all or part of the functionality previously described herein. Those skilled in the art should appreciate that such computer instructions can be written in a number of programming languages for use with many computer architectures or operating systems. Furthermore, such instructions may be stored in any memory device, such as semiconductor, magnetic, optical or other memory devices, and may be transmitted using any communications technology, such as optical, infrared, microwave, or other transmission technologies. It is expected that such a computer program product may be distributed as a removable medium with accompanying printed or electronic documentation (*e.g.*, shrink wrapped software), preloaded with a computer system (*e.g.*, on system ROM or fixed disk), or distributed from a server over the network (*e.g.*, the Internet or World Wide Web). Of course, some embodiments of the invention may be implemented as a combination of both software (*e.g.*, a computer program product) and hardware. Still other embodiments of the invention may be implemented as entirely hardware, or entirely software (*e.g.*, a computer program product).

[0098] Other features and advantages of the present embodiment will become apparent to those skilled in the art from the following detailed description. It is to be understood, however, that the detailed description above and specific examples below, while indicating preferred embodiments of the present embodiment, are given by way of illustration and not limitation.

Many changes and modifications within the scope of the embodiments disclosed herein may be made without departing from the spirit thereof, and such embodiments include all such modifications.

[0099] *WS-Based GSM*

[00100] The WS-based Customer Survey Module (GSM) of the current invention allows merchants to integrate a GSM into their branded website allowing integration to both survey templates and actual check details. All administration of the GSM occurs within a Data Collection Handler (DCH) web-based portal. The WS features are implemented as a multi-unit (MU) role based services; this allowing an MU login to be setup by survey Attribute Group scope for either centralization or decentralization based upon MU login scope to units.

[00101] The challenge of this type of survey concept is to get the customer to volunteer to complete a survey. One solution is to offer limited support for incentives (such as promotions described below). Another solution is to 'gamify' the survey. For example, providing a bingo letter/number that the user can then use to start filling in a bingo card, and the winner gets a better prize. In order to fill the bingo card, the customer is encouraged to come back for another purchase and survey round.

[00102] At the time of the sale, the POS provides a printed survey token (either directly on the check/receipt or on separate piece of paper) that allows the system to retrieve check data in order to complete a survey. Additionally, check information and the token can be provided electronically such as through email or the use of a mobile application. The survey invitation begins with a survey token being generated by the POS, this token is preferably a concatenation of STORE+DATE+CHECK, and presented on the customer check. These three (3) key

informational components (unit, check-date, and check number) are used by the DCH to retrieve, with a high level of confidence, information about the check.

[00103] The structure of the token in this preferred embodiment can be literally described as “0103+01282011+12345”. It is possible, however, to support different masks, per unit, depending upon what POS is in use by individual units. The GSM-WS uses the survey token as a passed service parameter to determine the actual unit, business-date (by using start of business day rules), and check number. The POS system, plus other cards and placards, etc., can request that the customer to complete a survey at the merchant’s website (e.g. www.somemerchantwebsite.com/surveys). The target website will then prompt the customer to enter the survey token, or similar. It is also possible, when the customer is known to the POS, such as via a customer loyalty program; the POS (or related CRM) may generate a direct email with an embedded link requesting the loyalty program member to complete a survey.

[00104] Many POS systems are not able to universally provide some form of printed token that will allow the DCH to retrieve check data in order to complete a survey. If a POS is not able to generate a survey token, the customer check is still likely to contain the three criteria (unit, check-date and check number) needed to locate the requisite data. The GSM web-service provides support for both survey-token and/or manual entry of unit, date and check as they appear on most printed customer checks.

[00105] *Data Structure*

[00106] In a preferred embodiment, surveys are template based thereby allowing a merchant to deliver more than one survey type at a time to its customers. The following represents an illustrative Campaign data structure:

- **Campaign Data Structure** – a collection of settings that describes one or more surveys that can be deployed to one or more restaurants using Conditions to organize surveys into Attribute Groups, and with start-on-date viewing for changing surveys;
- **Survey Master Questions** – permanent key based list of questions that can be re-used in different surveys, having durable research value independent of differing survey Campaigns;
- **Survey Questions** – taken from the Survey Master Question as a permanent key instance; a collection of these questions are joined to the Campaign Data Structure;
- **Respondent Header** – the response header is generated by the customer respondent and contains the information about the survey response itself; a survey is likely to have many responses, but there should only be one response per unit/customer/check instance;
- **Respondent Details** – detail rows of the Response Header containing customer response for survey questions, item surveys and comments;
- **Incentive Master** – a table of incentive or promotion descriptions that might be offered as incentives for survey completion.

[00107] The system can select from the list of surveys a complete survey based upon check content and/or context around the check. For example, the system generates a different survey if the customer is known (a loyal customer) vs. an anonymous customer, or the system can generate a survey based upon what time of day they interacted with the merchant, etc. This is in addition to the fact that individual questions within the chosen and generated survey can be context controlled.

[00108] An illustrative Campaign Data Structure could consist of the following columns:

- Survey Description

- Active (Hide) {Active, Inactive}
- Active Date
- One or more Rate Items
- Configurable Conditions
- Exit Page
- Survey Questions
- Incentives
- Events
- Grouping (up to 3 nested Attribute Groups)
- CkDetails Exist Action {Details and Questions, Details Only}
- CkDetails Missing Action {Questions Only, No Survey}
- Allow Customer Edit Hrs (0 – 999, default 0.5 Hrs)
- Special Offer (can be null or select from Special Offer Globally Unique Identifier (GUID)/list)
- Require Customer Authentication {Checked, Unchecked}
- >->>Campaign Data Structure organized into Attribute Groups using configurable Conditions
- >->>Survey Questions (described below)

[00109] The Campaign Data Structure can include a plurality of Rate Item data columns that can each represent a broad array of measurement types, such as quality, value, taste, survey respondent preference, survey respondent satisfaction, among others. The configurable Conditions allow survey organization into Attribute Groups, such as creating a Condition that all

facilities of a certain size range will utilize a given set of survey questions while smaller facilities will receive a different set of survey questions.

[00110] When a survey is created by the system it should default to being hidden – so that at first it cannot be seen. The hidden column should be designated as ‘Active’ and ‘In-active’ for this purpose. An active survey Campaign is by default active for all stores with optimistic and/or assigned Attribute Group associations, according to the greatest active date. Only one survey can be active per customer per store at a time – however if an active survey can’t be found for a store a return message to the WS caller must be provided.

[00111] The system does allow a collection of surveys to be available to the survey taker, and the selection logic is applied to the collection so that only one survey is generated. The selection can have to do with venue (where the customer interacted with the merchant), or the check content (what they did, or did not purchase), or the size of the transaction, etc. It is generating different surveys to a repeat survey taker that keeps the customer more interested in participating by allowing variety in the survey itself.

[00112] The Active Date should default to the current date and should not be null. When the **Rate CkDetail Quality** is set to true the Survey Result table is populated for all sold items with the row flagged to measure the quality of the item. Likewise when the **Rate CkDetail Value** is set to true then the survey result table is populated with Detail Value types per items sold. The **CkDetails Exist Action** and **CkDetails Missing Action** work together to configure how the GSM web-service will respond in the event that check details are found, or not found. If details do exist then the merchant has the option to only survey the check items sold, based upon the configurable options, or they may want to survey the details and appended general survey questions.

[00113] If check details do not exist (*e.g.* there is a network problem or the POS data has not yet been received by the DCH) the **Ck Details Missing Action** allows the system to deliver the general survey questions, or to reject the survey and include a rejection statement such as “The check you entered is not yet available in the survey system – please check back tomorrow.” The **Allow Customer Edit Hrs** determines the amount of time a customer could come back and change their survey. If set this value is set to zero, then once the web-site sends the survey result a subsequent request for this same survey token would result in an error message: “This survey was previously completed; no survey is available.” The **Incentive**, when not-null, will hold a GUID linking to the details of the incentive and this information will be available to the web-site according to the Incentive instructions (see Incentive Processing). Setting the **Require Customer Authentication** flag requires that a customer authenticate (see Customer Authentication) to submit the survey and/or to receive the incentive benefit if so directed by the setup.

[00114] *Survey Master Questions*

[00115] In the preferred embodiment, the Survey Master Questions include the following illustrative columns, although other answer types are contemplated, (defaulted column values showing in bold):

- Survey Question (vchar)
- Required {Checked, **Unchecked**}
- Answer Type {Starred Rating (2 to 11 stars), Single Select, Multi-Select, Matrix, Ordered List, Ribbon, Free-text}
- Answer List (vchar – can be null for if so permissioned by **Required** setting)
- Hide {Checked, **Unchecked**}

[00116] The master list of permanent questions is contained in this list. If a question goes out of favor it can be hidden, but it still may be referenced by an older survey. Hiding a question only makes it so that it cannot be looked up in the survey form or in a report parameter. The **Survey Question** should be able to hold a significant paragraph in the order of 400 characters minimum. If a response is '**Required**' the flag indicating such should be set to true; however it is up to the merchant web-site to manage this flag – the GSM web service module generates the flag but does not enforce it.

[00117] The system supports, at least, the following **Answer Types**: Up to 11-Stars where the website will allow an integer recording “1” through “11” as the result. Anything other than 1 to 11 will not be stored by the DCH for this type; Single Select will allow the customer to select one answer from a multiple choice list; Multi-Select will allow the customer to select multiple choices from a multiple choice list. The **Answer List** is also a large storage varchar column that will hold a pipe delimited list of answers that will build the multiple choice list of answers to the question; this column can be null if the Answer Type equals 'Starred Rating'.

[00118] *Response Header*

[00119] The Response Header includes the following columns (DCH generated column values showing in bold):

- Survey Master GUID
- Response Instance GUID
- Merchant GUID (can be null)
- UnitID
- Check Number (can be null)
- Check DateTime (can be null)

- Server/Cashier (can be null)
- Table/Station (can be null)
- Check Duration(can be null)
- Special Offer Grant (can be null)
- Request Manager Contact {checked, unchecked, **null**}
- Wrong Check {checked, unchecked, **null**}

[00120] The Result Header table will be generated by a 'Micro-service container', addressable by IIS. The generation of the survey contains the **Survey Master GUID**, and the **Response Instance GUID**, the instance representing a single survey instance of the master and the join for Response Details. If the merchant has authenticated then the **Merchant GUID** would be stored, or else we store a null. **UnitID, Check Number, CheckDateTime, Server/Cashier, Table/Station, and Check Duration** are all columns populated from the original survey token and only if the check data is found at the time of survey. The **Special Offer Grant** is assigned if an offer exists with the survey and the customer qualifies (for example both in terms of completed survey and number of prior offers extended). **Request Manager Contact** is the only web-client-side editable column in the Result Header; this option can be set to Checked/Unchecked or left as NULL. The **Wrong Check** state can be Customers' Web Site Designer (CWSD) utilized allowing the customer to declare that the check presented by our service was not identified as the correct customer check.

[00121] *Response Details*

[00122] The **Response Details** include following columns (DCH generated column values showing in bold):

- Survey Instance GUID

- Type {Item Quality, Item Value, Question}
- Question/Item GUID
- Answer (vchar)
- Comment (vchar)

[00123] The Response Details table is generated by the GSM service (discussed below). The generation of the survey contains **Survey Instance GUID**, this key joining data to the Response Header. The **Type** column holds the row-type of generated survey-result rows. A row type of *Item Quality* is generated from check details and only when the Rate Detail Quality flag of the survey is set to 'checked' (or true); this is also the case with *Item Value* and its corresponding flag named Rate Detail Value. Both the Item Quality and Item Value are automatically generated as '5-Star' survey rows. A row-type of Question indicates that the row is an answer to a survey question and the answer is in accordance with the Master Question option for answering the question. The **Answer** column must be large enough to store the multiple or single choice selections of the survey and will store the character value of '1', '2', '3', '4' or '5' for 5-Star values; null or empty Answer values will be considered to be invalid or were ignored by the customer. The **Comment** column is an optional value that can be populated by the web-site for each generated survey result row.

[00124] *Incentives Master*

[00125] The **Incentives Master** includes the following columns (defaulted states shown in bold):

- Incentives Name (unique)
- Incentives Details (vchar – 1,000)
- Incentives Restrictions (vchar = 1,000)

- Limit Mode Per Guest {**None**, Per Month, Per Week, Per Day, Total}
- Limit Count {**0**, zero unlimited; 1 – 9999}

[00126] The Incentives Master table holds a list of offers, plus details of that offer and control settings that the GSM uses to limit excessive repeat customer redemptions on an offer.

[00127] *Web Portal Tasking*

[00128] The system provides, as a part of the web portal tasking function, an administrative task named [Guest Survey Setup]. This task is organized in sub-tabs of “Survey Master Questions,” “Incentives,” and “Survey Campaigns.” All of the setup work for creating a new survey, creating and maintaining survey questions and offers, and the collection of this information known as a survey Campaign. The form is preferably presented as a wizard with the option to show/hide the individual sub-tabs. Full wizard-tools can be provided for all row-elements (including child rows) for copy/paste to enable highly efficient setup of customer surveys.

[00129] The [Store Master] includes a column named [POS Unit survey token]. This column is populated with the existing unit number on conversion and upon a new row insert. Subsequent maintenance of this column is done by the DCH administrator. The POS Unit survey token is used to translate the unit portion of the survey token to retrieve the actual DCH UnitID used for subsequent web-service calls.

[00130] The Store Master row is where attributes about the selling store are stored. The connection to the POS Unit survey token is that the system provides mapping between the POS data (using the token or otherwise) from the merchant site to our store row.

[00131] *RESTful API Tasking*

[00132] The system preferably includes a new service locator URL for the Customer Survey Module (GSM) according to a predefined URL convention. An illustrative convention could be www.awcsx.com/BigTacos/survey and a service login. The GSM includes multiple services required for implementing the inventive method on the system. Services include:

- [GetGSMUnit] – identifies the DCH unit from customer check information;
- [GSM Customer Authentication] – optional feature to allow a returning customer to authenticate;
- [GSM Create/Edit Customer] – optional feature allows customer to create/edit their information;
- [GenerateSurvey] – generates the survey data;
- [EditSurvey] – allows the edited survey data to be stored in the DCH; and
- [GetSurveyState] – allows the survey to be validated as complete and with limited support for generating coupon benefits on a completed survey.

[00133] A [GetGSMUnit] service allows the merchant's web site designers to pass some or all of the following data for the purpose of locating the correct DCH unit, business date and check. For example the website may already have a store locator and this locator might be used instead of a survey token (if the POS is not able to produce the token) and in this case the locator would pass to the DCH the necessary columns to start the survey process. The following are examples of the columns that could be passed to the GetMSMUnit service:

- Survey Token
- External Unit Number
- External Unit Description
- External Unit Address

- External Unit City
- External Unit State
- External Unit Zip
- External Check Number
- External Check DateTime

[00134] Although variations are possible, the sequence precedence for this service of the preferred embodiment is important. The service must first ascertain if it can locate an actual DCH unit, and if not, the service generates a unit locator error. If a unit is found the service second will look for a valid Survey Template, and if none found a Survey locator error is generated. If a survey is found the service will third convert the check to a business date (for after midnight check DateTimes) and fourth attempt to locate the check. If a check is found, or not found, the resulting survey or error message response is determined by settings in the Survey Header. The following are examples of service response columns:

- Unit ID
- Survey Description
- Master Survey GUID
- Details Exist Mode
- Details Missing Mode
- Require Customer Authentication
- Special Offer GUID
- Special Offer Name
- Special Offer Details
- Special Offer Restrictions

- Check Number
- Business Date
- Service Error Message

[00135] The [GSM Customer Authentication] service allows a customer to either create or authenticate using an extant reference. The keys to customer authentication are [Last Name] and ([Phone] or [Email]). There is no secure data contained within this authentication – the purpose of authentication is to identify a regular customer and to have some mechanism for the manager/software to generate replies to surveys. The service will allow these values to be passed:

- DCH Unit ID (required)
- Customer Last Name
- Customer Phone Number
- Customer Email Address

[00136] The return values for authentication indicate that the customer was located; a null return indicates the customer information does not exist for this store. We won't know if the CWSD has their own customer tracking so this feature will be used to coordinate our customer table with web-site customers. The DC customer table only contains Customer Contact (for contact name) so the service will have to perform an 'IndexOf()' determination on last name and then find either an email and/or phone number correlation. The result set for GSM Customer Authentication is:

- Contact Name
- Contact City
- Contact State

- Contact Zip
- Customer GUID

[00137] The [GSM Create/Edit Customer] allows the merchant's web page to react to a failed customer authentication or to handle a new authentication or allow a customer to edit an existing authentication. Service-confirmation returns the Customer GUID for successful insertion or an edit success or fail error message.

[00138] Examples of service options include:

- Customer GUID (if null then service assumes create, else it assumed edit)
- Master Customer GUID (can be null)
- Customer Salutation
- **Customer First Name**
- Customer MI
- **Customer Last Name**
- Customer Suffix
- Note: We concatenate SalFN+MI+LN+Sfx into our [Customer.Contact Name]
- **Customer Address1**
- Customer Address2
- **Customer City**
- **Customer State**
- **Customer Zip**
- Customer Cell (one of Cell/Phone/Email required to insert new customer row)
- Customer Phone (one of Cell/Phone/Email required to insert new customer row)
- Customer Email (one of Cell/Phone/Email required to insert new customer row)

[00139] The [GenerateSurvey] service generates the actual survey response rows or may generate an error message according to survey setup requirements. Example service options include:

- UnitID (required)
- MasterSurveyGUID (required)
- Check Number (optional)
- CheckDateTime (optional)
- CustomerGUID (optional)
- *Return:* Survey Instance GUID or NULL if not possible
- *Return:* Service Error Message

[00140] The generated survey must follow all of the rules of survey header (mastersurveyGUID). For check-details the CkDetail Scope Limit is used to include only those items belonging to the limiting Attribute Group. If this group is not established, then all sold items are included in the group. The check details are consolidated using the DCH Item description, so that if more than one “7 oz. Sirloin Steak” was sold, only one instance would appear in the survey, but the quantity of sales would be part of the result description, such as “(2) – 7 oz. Sirloin Steak”. These survey descriptions would be doubled if the customer rates both the quality and value of check details.

[00141] A call to the [EditSurvey] service will return all of the rows generated by the service provided that the GenerateSurvey did not result in an error. This service will return row sets, but the service is initiated on the following:

- Survey Instance GUID (required)

[00142] The service returns the following row(s) columns according to the generated survey, fields that can be edited and re-submitted are indicated in **bold**:

- SurveyRowGUID
- RowType {Item Value, Item Quality, Question}
- RatingType {5-Star,Single-Select,Multi-Select}
- Item/QuestionText
- AnswerOptions (1,2,3,4,5 for 5-Star)
- ResponseRequired
- **SurveyResponse**
- **SurveyComment**

[00143] The cycle plan for this EditSurvey is that the CWSD passes the only SurveyInstanceGUID as the initial pass to fill the return dataset with the survey rows. Our instructions indicate that the CWSD must build the survey presentation, including managing the multi-select and single-select answers as well as a starred rating system and that the customer responses are stored in the SurveyResponse row column, and if the CWSD so enables, a corresponding comment. The CWSD, when sending the completed survey is required to only send the SurveyInstanceGUID, SurveyRowGUID, and the SurveyResponse (and optionally the SurveyComment). DC will save the survey but it is up to the CWSD to maintain, at the client (browser) things like required answers.

[00144] The [GetSurveyState] service requires only a passed parameter of SurveyInstanceGUID. The dataset returned is:

- SurveyState {Partial, Complete}
- IncentiveGUID

- IncentiveName
- IncentiveDetails
- IncentiveTerms
- ErrorMessage

[00145] This last service step provides a confirmation (or lack thereof) to the CWSD so that a coupon or other incentive can be rendered by the CWSD, complete with an incentive name, details, terms and the GUID for incentive tracking. If the incentive exceeded a limit the error message would display the limit. If a merchant does not want to utilize incentives, these columns would return nulls.

[00146] *IP Blocking*

[00147] Another aspect of the incentive system includes the ability to present an administrator with a list of IP addresses as 'select-distinct' from all IP's that have ever generated a website contact or survey. A second column [Block] should allow the admin to set a block on the IP address.

[00148] The web-services for generating a survey or web-site contact must check the blocked IP list, and if the IP is found to be blocked the service should return a message that the IP is blocked. The Customer Survey and Web Site contact apps must simply report that 'The underlying service is not available at this time.' and no further processing should be allowed for that IP.

[00149] *Website Contact*

[00150] The website contact feature is a special subset of the current configurable survey. In general the feature allows merchants to bury a small java-tag into their website to call a dedicated Website Contact form. The form works like the current survey in that the first page

will allow the customer to select a unit, but instead of selecting a date and check, the date is always defaulted to the current server date-time, and no check information is required. The next page asks the customer to identify themselves, but in this case 'I prefer to remain anonymous' is not allowed. The next page generates the two questions and one comment in a single page. The submit page provides the customer a last point before submitting the comment, and the Thank you page provides a simple thank you statement.

[00151] *Customer Survey Review*

[00152] Reporting will be the primary method for users to review surveys but the DCH client also provides a platform for reviewing surveys as well as the preferred platform for DCH administrators to manage junk surveys. Just as forum administrators can manage the occasional problematic forum entry, the DCH administrator for surveys is able to invalidate a toxic survey.

[00153] The Customer Survey Review feature is preferably presented as a wizard for Admin/MU and Unit access. The start page of the wizard could provide the following filters:

- Unit (required)
- Campaigns (multi-select of possible templates, default to 'All')
- Questions (multi-select to master questions, default to 'All')
- Minimum and Maximum scores (default to 'All', if present filters only those questions that have an associated answer score)
- From and through dates (filters dining dates, default to current-7 through current)

[00154] Questions and scores are filter tests for survey details while Unit, Campaigns, and Dates are survey header filters. There is preferably a hidden filter for MU and U users that will filter out 'Junk' surveys allowing only administrators to see surveys/questions marked as junk.

[00155] Clicking next opens a combination of grid (top panel) and grid (lower panel). The top panel should display the survey headers and the bottom the survey questions, answers and scoring (many to one). The data should appear as read-only.

[00156] The administrator is able to see all surveys and questions, including headers and questions marked as junk. The survey header and survey questions should have an 'YN (checkbox)' column named junk. Because the data is to be shown as read-only, two TOOLBAR actions should be available to the administrator:

- Mark Survey as Junk
- Mark Question/Response as Junk

[00157] These two should show as a toggle, so that a survey or question accidentally therefore marked can be un-marked. Also for the administrator there should be a TOOLBAR option to 'Block Survey IP'. Clicking this feature would write the IP address of this survey into the blocked IP list.

[00158] The various embodiments of the invention may be implemented as a sequence of computer implemented steps or program modules running on a computing system and/or as interconnected machine logic circuits or circuit modules within the computing system. The implementation is a matter of choice dependent on the performance requirements of the computing system implementing the invention. In light of this disclosure, it will be recognized by one skilled in the art that the functions and operation of the various embodiments disclosed may be implemented in software, in firmware, in special purpose digital logic, or any combination thereof without deviating from the spirit and scope of the present invention as recited within the claims attached hereto.

[00159] The above specification, examples and data provide a complete description of the invention. Since many embodiments of the invention can be made without departing from the spirit and scope of the invention, the invention resides in the claims hereinafter appended.

What is claimed is:

1. A system for implementing transaction-specific surveys comprising:
 - (a) a point-of-sale interface used in conducting a commercial transaction between a consumer and a vendor, the point-of-sale interface being configured to record transaction data relating to the commercial transaction wherein the transaction data comprises at least one purchase detail identifier and a survey token;
 - (b) a survey server computing device configured to receive and store the transaction data generated by the point-of-sale interface, wherein:
 - (i) the survey server computing device comprises (A) a vendor database storing a plurality of purchase detail identifiers, and (B) a campaign data structure having survey question data and a configurable Condition that is satisfied by the detection of a given purchase detail identifier; and wherein
 - (ii) the survey server computing device is configured to perform the operations comprising (A) receiving a survey token, (B) retrieving the transaction data having the stored survey token corresponding to the received survey token, (C) determining whether the transaction data includes the given purchase detail identifier such that the configurable Condition is satisfied, and if the configurable Condition is satisfied, generating a Survey Question using the given survey question data and the purchase detail identifier, and (D) generating a Survey Module comprising software code for displaying the at least one Survey Question;
 - (c) a vendor survey interface configured to perform the operations comprising: (i) transmitting the survey token to the survey server computing device; (ii) receiving from the survey server computing device the Survey Module; (iii) generating a graphical user interface

on a display screen; (iv) running the Survey Module to display the at least one Survey Question as an integrated component within the graphical user interface; (v) generating a Respondent Header based on user-generated inputs in response to the at least one Survey Question; and (vi) transmitting the Respondent Header to the survey server computing device.

2. The system of claim 1, wherein: (a) the vendor survey interface is implemented as a web server computing device; (b) the graphical user interface is a host vendor webpage; (c) and the Survey Module is a webpage frame configured for display as an integrated component of the host vendor webpage.

3. The system of claim 1, wherein the point-of-sale interface is implemented as a point-of-sale computing device.

4. The system of claim 3, wherein (a) the point-of-sale computing device transmits the transaction data to a cloud server, and (b) the survey server computing device is configured to receive and store the transaction data transmitted by the cloud server.

5. The system of claim 1, wherein vendor survey interface is implemented as a software application running on a mobile computing device, and the survey token is input by the consumer to the vendor survey interface.

6. The system of claim 1, wherein the survey token comprises a combination of purchase detail identifiers that identify the commercial transaction.

7. The system of claim 1, wherein the point-of-sale interface and the vendor survey interface are both implemented as a software application running on a mobile computing device.

8. The system of claim 1, wherein:

(a) the campaign data structure further comprises an Exit Page that points to a webpage address and a second configurable Condition that is satisfied based on a Survey Question response;

(b) the display screen that displays the graphical user interface is an integrated component of a customer response client computing device, and the graphical user interface is displayed by a web browser integrated with the customer response client computing device; and wherein

(c) the survey server computing device is further configured to perform the operation of incorporating within the Survey Module software code that redirects the web browser of the customer response client computing device to the Exit Page, if the second configurable Condition is satisfied.

9. The system of claim 1, wherein:

(a) the survey server computing device further comprises an Attribute Group database comprising one or more purchase detail identifiers sharing a preselected attribute;

(b) the campaign data structure further comprises a second configurable condition that is satisfied if a certain purchase detail identifier shares the preselected attribute; and wherein

(c) the survey server computing device is further configured to perform the operations of (E) determining whether the transaction data includes the certain purchase detail identifier that shares the preselected attribute such that the second configurable Condition is satisfied, and (F) if the second configurable Condition is satisfied, generating a second Survey Question using the survey question data and the certain purchase detail identifier.

10. The system of claim 1, wherein:

(a) the purchase detail identifiers comprise a product/service identifier that represents a products/service available for purchase through the vendor; and

(b) the Survey Question comprises a Product Survey Question relating to the product/service.

11. The system of claim 1, wherein:

(a) the purchase detail identifiers comprise a vendor facility identifier that represents a vendor facility used by the vendor for commercial transactions; and

(b) the Survey Question comprises a Facility Survey Question relating to the vendor facility.

12. The system of claim 1, wherein:

(a) the purchase detail identifiers comprise a vendor personnel identifier identifying vendor personnel; and

(b) the Survey Question comprises a Vendor Personnel Survey Question relating to the vendor personnel.

13. The system of claim 1, wherein:

- (a) the purchase detail identifiers comprise a service mode identifier that represents a mode of service; and
- (b) the Survey Question comprises a Service Mode Survey Question relating to the mode of service.

14. The system of claim 10, wherein:

- (a) the purchase detail identifiers further comprise at least one vendor facility identifier that represents a vendor facility where the commercial transaction occurred;
- (b) the campaign data structure comprises a second configurable Condition that is satisfied by the detection of a given vendor facility identifier;
- (c) the survey server computing device is configured to perform the further operations comprising (E) determining whether the transaction data includes the given vendor facility identifier such that the second configurable Condition is satisfied, and if the second configurable Condition is satisfied, generating a Facility Survey Question using the survey question data and the given facility identifier, and (F) incorporating within the Survey Module software code for displaying the Facility Survey Question.

15. The system of claim 14, wherein:

- (a) the purchase detail identifiers further comprise at least one internal facility location identifier identifying an internal location within a vendor facility;

(b) the campaign data structure comprises a third configurable Condition that is satisfied by the detection of a given internal facility location identifier;

(c) the survey server computing device is configured to perform the further operations comprising (G) determining whether the transaction data includes the given internal facility location identifier such that the third configurable Condition is satisfied, and if the third configurable Condition is satisfied, generating an Internal Facility Survey Question using the survey question data and the given internal facility location identifier, and (H) incorporating within the Survey Module software code for displaying the Internal Facility Survey Question.

16. The system of claim 1, wherein: (a) the survey question data includes at least one General Survey Question that is not specific to the transaction data; and (b) the survey server computing device is further configured to perform the operation of incorporating within the Survey Module software code for displaying the at least one General Survey Question.

17. The system of claim 1, wherein the Campaign data structure further comprises a Max Question configurable Condition setting a maximum number of survey questions included within the Survey Module.

18. The system of claim 1, wherein:

(a) the Campaign data structure further comprises an Event that triggers an electronic notification transmitted to a vendor representative and a second configurable Condition that is satisfied based on a Survey Question response; and wherein

(b) the survey server computing device is further configured to perform the operations of (E) incorporating within the Survey Module software code that determines whether the second configurable Condition is satisfied, and (F) that implements the Event to transmit an electronic notification to the vendor representative, if the second configurable condition is satisfied.

19. A computer-implemented method for providing transaction-specific surveys comprising the operations of:

(a) providing a survey server configured to receive and store transaction data generated by point-of-sale interface relating to a commercial transaction between a consumer and a vendor, wherein

(i) the transaction data comprises purchase detail identifiers and a survey token; and

(ii) the survey server comprises (A) a vendor database storing a plurality of purchase detail identifiers, and (B) a campaign data structure having survey question data and a configurable Condition that is satisfied by the detection of a given purchase detail identifier;

(b) receiving by the survey server, a survey token;

(c) retrieving by survey server, the transaction data having the stored survey token corresponding to the received survey token;

(d) determining by survey server, whether the transaction data includes the given purchase detail identifier such that the configurable Condition is satisfied, and if the configurable Condition is satisfied, generating a Survey Question using the survey question data and the purchase detail identifier;

(e) generating by the survey server, a Survey Module comprising software code for displaying the at least one Survey Question as an integrated component within a graphical user interface;

(f) transmitting by the survey server, the Survey Module to a vendor survey interface; and

(g) receiving by the survey server, a Respondent Header generated based on user-generated inputs in response to the at least one Survey Question.

ABSTRACT

Provided are a method and system for automatically generating context-based survey questions predicated on the customers' actual purchase experience with the merchant, thus eliminating for the customer the need to respond to obvious, redundant, and even irrelevant questions, and providing to the merchant customer feedback directly bound to the actual purchase event and correlating data. Purchase information is stored at the time of purchase and the customer is given an identifier for the purchase. Then, at the customer's convenience, either at the point of sale or through a networked computer, the customer can provide responses to questions that are selectively and automatically generated based on the items purchased, or other definable attributes associated with the sale, and based upon configurable preferences of the merchant. Survey questions are displayed and feedback responses are stored, analyzed and associated with purchase information in real time.