

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3951620

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	TERMINATION AND RELEASE OF IP SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
PACIFIC WESTERN BANK, AS SUCCESSOR IN INTEREST BY MERGER TO SQUARE 1 BANK	07/06/2016

RECEIVING PARTY DATA

Name:	OPERA SOLUTIONS, LLC
Street Address:	10 EXCHANGE PLACE, 11TH FLOOR
City:	JERSEY CITY
State/Country:	NEW JERSEY
Postal Code:	07302

PROPERTY NUMBERS Total: 29

Property Type	Number
Application Number:	13030954
Application Number:	13760710
PCT Number:	US2013024913
PCT Number:	US2012069172
Application Number:	13645695
Application Number:	13324445
Application Number:	13048402
PCT Number:	US2012029280
Application Number:	12715302
Application Number:	12715248
Application Number:	12775755
Application Number:	13586504
Application Number:	13917263
Application Number:	13917308
Application Number:	13956720
Application Number:	13969010
Application Number:	13956732
Application Number:	13966720
Application Number:	14046232
Application Number:	14015198

PATENT

Property Type	Number
PCT Number:	US2013055393
PCT Number:	US2013057583
PCT Number:	US2013056882
PCT Number:	US2013056860
Application Number:	14011467
Application Number:	14011324
Application Number:	14147988
Application Number:	14164794
Application Number:	14171384

CORRESPONDENCE DATA

Fax Number: (216)579-0212
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2165867021
Email: dpuljic@jonesday.com
Correspondent Name: DANIEL PULJIC / JONES DAY
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Address Line 2: NORTH POINT
Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	118249-605001 (DAN)
NAME OF SUBMITTER:	DANIEL PULJIC
SIGNATURE:	/Daniel Puljic/
DATE SIGNED:	07/07/2016

Total Attachments: 10

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**TERMINATION AND RELEASE OF IP
SECURITY AGREEMENT**

This Termination and Release of IP Security Agreement (this "Release") is conveyed as of July 6, 2016, by Pacific Western Bank, (as successor in interest by merger to Square 1 Bank), as Lender under the Intellectual Property Security Agreement referred to below (in such capacity, the "Lender"), in favor of Opera Solutions, LLC, a Delaware limited liability company (the "Debtor").

WHEREAS, reference is made to that certain Intellectual Property Security Agreement, dated as of March 14, 2014 (as amended, amended and restated, supplemented or otherwise modified to the date hereof, the "Security Agreement"), by and among the Debtor, the other obligors party thereto from time to time and the Lender.

WHEREAS, the Lender and the Debtor executed an Intellectual Property Security Agreement, dated March 4, 2014 which was recorded with the United States Patent and Trademark Office (the "USPTO") on February 9, 2015, at Reel 034923 Frame 0238 and Reel 5456 Frame 0773 respectively, under which the Debtor granted to the Lender a security interest in its interest in the patents and patent applications listed on the attached Schedule A (the "Patents") and the trademarks and trademark applications listed on the attached Schedule B (the "Trademarks").

WHEREAS, the Lender wishes to terminate the Security Agreement and release, retransfer and reassign to each Debtor, without representation or warranty, all of the Lender's right, title and interest in and to the Trademarks and the goodwill associated therewith, and the Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which the parties acknowledge, the Lender hereby terminates the Security Agreement and the security interest granted therein, and releases, retransfers and reassigns to Debtor, without representations or warranty, all of the Lender's right, title and interest in and to Debtor's Intellectual Property Collateral (as defined in the Security Agreement) (including without limitation the Trademarks and the goodwill associated therewith, and the Patents).

IN WITNESS WHEREOF, the undersigned has caused this Release to be duly executed as of the date first written above.

PACIFIC WESTERN BANK,
as the Lender and successor-in-interest by merger to
Square 1 Bank)

By: 

Name:

James Duncan

Title:

SVP

SCHEDULE A

Patents and Patent Applications

Description	Patent No.	Serial No.	Filing Date
See Annex 1 attached hereto.			

SCHEDULE B

Registered Trademarks and Trademark Applications

Mark	Application Number	Registration Number
See Annex 1 attached hereto		

ANNEX I

Opera Solutions Intellectual Property

Patent Applications

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
1.	US	Systems and Methods for Optimizing Marketing Investments	13/030,954	2/18/2011	Pending.	Opera Solutions, LLC
2.	PCT	Systems and Methods for Optimizing Marketing Investments	PCT/US11/25508	2/18/2011	Abandoned per Company's instructions.	Opera Solutions, LLC
3.	US	System and Method for Data Anonymization Using Hierarchical Data Clustering and Perturbation	61/659,178	6/13/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
4.	US	System and Method for Detecting Billing Errors Using Predictive Modeling	61/659,175	6/13/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #38)
5.	US	Systems and Method for Valuation and risk Estimation of Mortgage Backed Securities	61/595,330	2/6/2012	Expired. Filed regular U.S. application (see item 6 below).	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #6)
6.	US	Systems and Method for Valuation and Risk Estimation of Mortgage Backed Securities	13/760,710	2/6/2013	Pending.	Opera Solutions, LLC
7.	PCT	Systems and Method for Valuation and Risk Estimation of Mortgage Backed Securities	PCT/US2013/024913	2/6/2013	Pending.	Opera Solutions, LLC
8.	US	System and Method for Detecting Network Intrusions Using Statistical Models and a Generalized Likelihood Ratio Test	61/678,298	8/1/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #39)
9.	US	System and Method for Matching Data Using Probabilistic Modeling Techniques	61/684,346	8/17/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
10.	US	System and Method for Demand Forecasting	61/678,309	8/1/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #42)
11.	US	System and Method for Secure Document Distribution	61/683,004	8/14/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #43)
12.	US	System and Method for Adjusting Distribution of Data Using Mixed Integer Programming	61/710,120	10/5/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
13.	US	System and Method for Optimizing Collections Processing	61/756,750	1/25/2013	Expired. Filed regular U.S. application (see No. 52 below).	Opera Solutions, LLC
14.	US	System and Method for Predicting Customer Attrition Using Dynamic User Interaction Data	61/695,412	8/31/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
15.	US	System and Method for Data Mining Using Domain-Level Context Analysis	61/748,837	1/4/2013	Expired. Filed regular U.S. application (see item 51 below).	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #51)
16.	US	System and Method for Threat Assessment	13/645,695	10/5/2012	Pending.	No Assignment has been recorded
17.	PCT	Recommender Engine for Collections Treatment Selection	PCT/US12/69172	12/12/2012	Pending..	Filed in the name of Opera Solutions, LLC. An Assignment has been recorded in the non-provisional US application. (see #18)
18.	US	Recommender Engine for Collections Treatment Selection	13/324,445	12/13/2011	Pending.	Opera Solutions, LLC
19.	US	Computer-based Method and Computer Program Product for	13/048,402	3/15/2011	Pending.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Setting Floor Prices for Items Sold at Auction				
20.	PCT	Computer-based Method and Computer Program Product for Setting Floor Prices for Items Sold at Auction	PCT/US12/29280	3/15/2012	Pending.	Filed in the name of Opera Solutions, LLC. An Assignment has been recorded in the non-provisional US application. (see #19)
21.	EPC	Computer-implemented Method for Enhancing Product Sales	11751095.8	2/24/2011	Pending.	Filed in the name of Opera Solutions, LLC
22.	EPC	Computer Implemented Method for Enhancing Targeted Product Sales	11751093.3	2/24/2011	Pending.	Filed in the name of Opera Solutions, LLC
23.	US	Computer-implemented Method for Enhancing Product Sales	12/715,302	3/1/2010	Pending.	Opera Solutions, LLC
24.	US	Computer-implemented method for Enhancing Targeted Product Sales	12/715,248	3/1/2010	Pending.	Opera Solutions, LLC
25.	US	System and Method for Collections on Delinquent Financial Accounts	12/775,755	5/7/2010	Pending.	Opera Solutions, LLC
26.	US	Systems and Methods Allocating Items Among Auction Sites to Maximize Profit	13/586,504	8/15/2012	Pending.	Opera Solutions, LLC
27.	US	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	61/693,568	8/27/2012	Expired. Filed regular U.S. application.	An Assignment for the corresponding non-provisional application has been recorded. (see #47)
28.	US	System and Method for Combining Multiple Recommender Systems	61/693,563	8/27/2012	Expired. Filed regular U.S. and PCT applications.	An Assignment for the non-provisional application has been recorded. (see #49)
29.	US	System and Method for Estimating Price Sensitivity and/or Price Aggregation for a Population having a Collection of Items	61/779,717	3/13/2013	Pending.	No Assignment has been recorded
30.	US	Network Analysis for Detecting Point of Compromise Merchant	61/778,866	3/13/2013	Pending.	Opera Solutions, LLC
31.	US	System and Method for Developing Proxy Models	61/759,682	2/1/2013	Expired. Filed regular U.S. application.	Opera Solutions, LLC
32.	US	System and Method for Grouping Medical	61,777,246	3/12/2013	Pending.	No Assignment has been recorded.

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Codes for Clinical Predictive Analytics				
33.	US	System and Method for Collections on Delinquent Financial Accounts	12/775,755	5/7/2010	Pending.	Opera Solutions, LLC
34.	US	Healthcare Outcome Predictor Using Medical History Categorical Data	61/783,430	3/14/2013	Pending.	Opera Solutions, LLC
35.	US	System and Method for Generating Ultimate Reason Codes for Computer Models	61/786,010	3/14/2013	Pending.	Opera Solutions, LLC
36.	US	System and Method for Generating Greedy Reason Codes for Computer Models	61/784,116	3/14/2013	Pending.	Opera Solutions, LLC
37.	US	System and Method for Data Anonymization Using Hierarchical Data Clustering and Perturbation	13/917,263	6/13/2013	Pending.	Opera Solutions, LLC
38.	US	System and Method for Detecting Billing Errors Using Predictive Modeling	13/917,308	6/13/2013	Pending.	Opera Solutions, LLC
39.	US	System and Method for Detecting Network Intrusions Using Statistical Models and a Generalized Likelihood Ratio Test	13/956,720	8/1/2013	Pending.	No Assignment has been recorded.
40.	US	System and Method for Matching Data Using Probabilistic Modeling Techniques	13/969,010	8/16/2013	Pending.	No Assignment has been recorded.
41.	PCT	System and Method for Matching Data Using Probabilistic Modeling Techniques	PCT/US13/55393	8/16/2013	Pending.	Filed in the name of Opera Solutions, LLC. An Assignment was recorded in the underlying provisional application. (see #9)
42.	US	System and Method for Demand Forecasting	13/956,732	8/1/2013	Pending.	Opera Solutions, LLC
43.	US	System and Method for Secure Document Distribution	13/966,720	8/14/2013	Pending.	No Assignment has been recorded.
44.	US	System and Method for Adjusting Distribution of Data Using Mixed Integer Programming	14/046,232	10/4/2013	Pending.	No Assignment has been recorded.
45.	US	System and Method for	14/015,198	8/30/2013	Pending.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Predicting Customer Attrition Using Dynamic User Interaction Data				
46.	PCT	System and Method for Predicting Customer Attrition Using Dynamic User Interaction Data	PCT/US13/57583	8/30/2013	Pending.	Opera Solutions, LLC
47.	US	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	14/011,467	8/27/2013	Pending.	Opera Solutions, LLC
48.	PCT	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	PCT/US13/56882	8/27/2013	Pending.	Filed in the name of Opera Solutions, LLC. An assignment has been recorded in the non-provisional US application. (see #47)
49.	US	System and Method for Combining Multiple Recommender Systems	14/011,324	8/27/2013	Pending.	Opera Solutions, LLC
50.	PCT	System and Method for Combining Multiple Recommender Systems	PCT/US13/56860	8/27/2013	Pending.	Filed in the name of Opera Solutions, LLC. An assignment has been recorded in the non-provisional US application. (see #49)
51.	US	System and Method for Data Mining Using Domain-Level Context	14/147,988	1/6/2014	Pending.	No Assignment has been recorded.
52.	US	System and Method for Optimizing Collections Processing	14/164,794	1/27/2014	Pending.	No Assignment has been recorded.
53.	US	System and Method for Developing Proxy Models	14/171,384	2/3/2014	Pending	No Assignment has been recorded.

Registered Trademarks and Trademark Applications

<u>Country</u>	<u>Mark</u>	<u>Application / Registration No.</u>	<u>Filing Date</u>	<u>Registration Date</u>	<u>Status/Next Action</u>
US	MOBIUSS	App. No. 85/234,191 Reg. No. 4,019,174	2/4/2011	8/30/2011	Registered.
India	MOBIUSS	App. No. 2185615	8/4/2011		Filed.
Russian Federation	MOBIUSS	App. No. 2011725039	8/4/2011		Pending.
Canada	MOBIUSS	App. No. 1,538,352 Reg. No. 828,980	8/4/2011	8/1/2012	Registered.
Israel	MOBIUSS	App. No. 239689	8/4/2011		Filed.
India	OPERA SOLUTIONS	App. No. 2201852	9/8/2011		Filed.
Israel	OPERA SOLUTIONS	App. No. 240346 Reg. No. 240346	9/1/2011	N/A; registration effective for 10 years from date of application.	Registered.
Community Trademark	OPERA SOLUTIONS	App. No. 10238152	9/2/2011		Opposition pending.

Unregistered Trademarks

OPERA SOLUTIONS
 OPERA SOLUTIONS GOVERNMENT SERVICES (OSGS)
 VEKTOR BIG DATA ANALYTICS PLATFORM
 THE VIEWER
 THE LOADER
 THE VIRTCHOPPER
 XLAP
 SPEND INTELLIGENCE PLATFORM
 SIP
 BIQ
 SIGNAL HUB
 SIGNAL HUB SUITE
 SIGNAL APP
 SIGNAL PRODUCT
 SIGNALYTICS
 CUSTOMER SIGNAL HUB
 CONSUMER SIGNAL HUB
 SIGNAL HUB SUITE
 SIGNALSENSOR
 SIGNALSENSOR THREAT INTELLIGENCE PLATFORM
 SIGNALSCOPE
 HOSPITAL OPTIMIZER SUITE
 HOSPITAL BILLING OPTIMIZER
 HOSPITAL STAFFING OPTIMIZER

HOSPITAL SPENDING OPTIMIZER
HOSPITAL COLLECTIONS OPTIMIZER
REVENUE LEAKAGE PLATFORM
HOSPITAL REVENUE LEAKAGE PLATFORM
COLLECTIONS RECOMMENDER ENGINE
SECURE COMMUNITIES OF INTEREST (SCOI)
IMMEDIATE INSIGHTS & INTELLIGENCE (I3)
SOPHIA ANALYTICS PLATFORM
OPEN SOURCE SIGNAL DETECTION (OSSD) PLATFORM
SIGNALCENTRAL (OPERA SOLUTIONS BLOG)
EIQ
CIQ
ASSET COMMANDER
TENSOR ANALYTICS EXPLORATION PLATFORM

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