PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3895696

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
VIDEOMINING CORPORATION	05/19/2016

RECEIVING PARTY DATA

Name:	AMERISERV FINANCIAL BANK
Street Address:	216 FRANKLIN STREET
City:	JOHNSTOWN
State/Country:	PENNSYLVANIA
Postal Code:	15901

PROPERTY NUMBERS Total: 31

Property Type	Number
Patent Number:	7319779
Patent Number:	8098888
Patent Number:	8380558
Patent Number:	7987111
Patent Number:	8189926
Patent Number:	7848548
Patent Number:	8520906
Patent Number:	8351647
Patent Number:	8027521
Patent Number:	8009863
Patent Number:	8379937
Patent Number:	8577705
Patent Number:	8254633
Patent Number:	8010402
Patent Number:	8812344
Patent Number:	8325982
Application Number:	11818554
Application Number:	12283606
Application Number:	12220076
Application Number:	12228409

PATENT REEL: 038751 FRAME: 0889

503849047

Property Type	Number
Application Number:	12313459
Application Number:	12386655
Application Number:	12459281
Application Number:	13999280
Application Number:	14513696
Application Number:	14692446
Application Number:	14986386
Application Number:	14984180
Application Number:	15004457
Application Number:	15011442
Application Number:	15051629

CORRESPONDENCE DATA

Fax Number: (412)471-4094

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: 4124718815

Email: assignments@webblaw.com

Correspondent Name: THE WEBB LAW FIRM
Address Line 1: ONE GATEWAY CENTER

Address Line 2:420 FT. DUQUESNE BLVD. SUITE 1200Address Line 4:PITTSBURGH, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	8111-1602058
NAME OF SUBMITTER:	ANTHONY W. BROOKS
SIGNATURE:	/Anthony W Brooks/
DATE SIGNED:	05/31/2016

Total Attachments: 9

source=SecurityAgreementRecordation#page1.tif source=SecurityAgreementRecordation#page2.tif

source=SecurityAgreementRecordation#page3.tif

source = Security Agreement Recordation #page 4.t if

source = Security Agreement Recordation #page 5.t if

source = Security Agreement Recordation #page 6.t if

source=SecurityAgreementRecordation#page7.tif

source = Security Agreement Recordation #page 8.t if

source = Security Agreement Recordation #page 9.t if

RECORDATION FO PATENT	RM COVER SHEET SONLY
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
VideoMining Corporation	Name: AmeriServ Financial Bank
	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes V No	Ctroot Address: 216 Familia Street
3. Nature of conveyance/Execution Date(s): Execution Date(s) May 19, 2016	Street Address: 216 Franklin Street
Assignment Merger	
Security Agreement Change of Name	City: Johnstown
Joint Research Agreement	State: Pennsylvania
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: US Zip: 15901
Other	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s):	document serves as an Oath/Declaration (37 CFR 1.63).
A. Patent Application No.(s)	B. Patent No.(s)
11818554 12283606 12220076 12228409	7319779 8098888 8380558 7987111
12313459 12386655 12459281 13999280 14513696 14692446 14986386 14984180	8189926 7848548 8520906 8351647 8027521 8009863 8379937 8577705
Additional numbers att	 ached?
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 31
Name: Anthony W. Brooks	7. Total fee (37 CFR 1.21(h) & 3.41) \$0.00
Internal Address: The Webb Law Firm	7. Total lee (37 OF N 1.21(II) & 3.41) \(\psi_{0.00}\)
	Authorized to be charged to deposit account
Street Address: One Gateway Center	Enclosed
420 Ft. Duquesne Blvd., Ste 1200	None required (government interest not affecting title)
City: Pittsburgh	8. Payment Information
State: PA Zip: 15222	
Phone Number: 412-471-8815	
Docket Number: 7970 - 1600958	Deposit Account Number
Email Address: assignments@webblaw.com	Authorized User Name
9. Signature:	
Signature Signature	May 31, 2016 Date
Anthony W. Brooks	Total number of names including access
Name of Person Signing	
	sheet, attachments, and documents:

RECORDATION FORM COVER SHEET PATENTS ONLY

Page 2

Additional Information (continued from Page 1)

4. Application or patent number(s) Continued:

A. Patent Application No. (s) B. Patent No. (s)

15004457 8254633

15011442 8010402

15051629 8812344

8325982

PATENT SECURITY AGREEMENT

This Patent Security Agreement ("Agreement") is entered into on this 19th day of May, 2016 between VideoMining Corporation, having an address at 403 S. Allen Street, Suite 101, State College, Pennsylvania 16801 ("Grantor"), and AmeriServ Financial Bank, having an address at 216 Franklin Street, Johnstown, Pennsylvania 15901 ("Secured Party").

RECITALS:

- A. WHEREAS, Grantor is the owner of the U.S. patents and patent applications listed on the attached Schedule A (collectively the "Patents")
- B. WHEREAS, Grantor and the Secured Party are parties to a Commercial Security Agreement, dated May 19, 2016, ("the Commercial Security Agreement") in favor of the Secured Party pursuant to which Grantor is required to execute and deliver this Patent Security Agreement;
- C. WHEREAS, pursuant to the terms and conditions of the Commercial Security Agreement, Grantor has granted to the Secured Party a security interest in collateral, including, without limitation, Grantor's entire, right, title, and interest, in, to and under the Patents, in exchange for extending a loan to the Grantor, repayment of which is evidenced by a Note; and
- **D.** WHEREAS, Grantor and the Secured Party by this instrument seek to confirm and make a record of the grant of a security interest in the Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby grants to the Secured Party a lien and continuing security interest in Grantor's entire right, title, and interest in, to, and under the following, whether presently existing or hereafter created or acquired:

- 1. The U.S. patents and patent applications listed on the attached Schedule A (collectively the "Patents"), together with any reissues, continuations, divisions, modifications, substitutions or extensions thereof.
- 2. All products and proceeds of the foregoing including, without limitation, any claim by Grantor against third parties for past, present, or future infringement of any of the Patents (or of any Patent issuing from an application listed on Schedule A).

The security interest granted herein pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Secured Party pursuant to the Commercial Security Agreement. Grantor hereby acknowledges and affirms that the rights and remedies of the Secured Party with respect to the liens and security interests granted herein are more fully set forth in the Commercial Security Agreement, dated May 19, 2016, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed by its duly authorized officers as of the date written above.

ANTOR SECURED PARTY	
By: Fihasumi D Name: RAJEEV SHARMA Title: CEO	By:
STATE OF PA) SS: COUNTY OF Centre	
Subscribed and sworn to before me by and John M. Infield (Secure	Corantor) Hayeey Sharma (Grantor) Hed Party) this 19th day of May , 2016.
<u>, </u>	Clayre M. Kling NOTARY PUBLIC
	COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Elayne M. Kling, Notary Public State College Boro, Centre County My Commission Expires Dec. 28, 2018 MEMBER, FERNSYLVANIA ASSOCIATION OF NOTARIES

Schedule A



Issued Patents Owned By VideoMining (16)

U.S. Patent Number	Title	Date Issued	Docket Number
7,319,779	"CLASSIFICATION OF HUMANS INTO MULTIPLE AGE CATEGORIES FROM DIGITAL IMAGES"	1/15/2008	AI-0021-MUL
8,098,888	"METHOD AND SYSTEM FOR AUTOMATIC ANALYSIS OF THE TRIP OF PEOPLE IN A RETAIL SPACE USING MULTIPLE CAMERAS"	01/17/2012	VM-0028-MTR
8,380,558	"METHOD AND SYSTEM FOR ANALYZING SHOPPING BEHAVIOR IN A STORE BY ASSOCIATING RFID DATA WITH VIDEO-BASED BEHAVIOR AND SEGMENTATION DATA"	2/19/2013	VM-0032-BRS
7,987,111	"METHOD AND SYSTEM FOR CHARACTERIZING PHYSICAL RETAIL SPACES BY DETERMINING THE DEMOGRAPHIC COMPOSITION OF PEOPLE IN THE PHYSICAL RETAIL SPACES UTILIZING VIDEO IMAGE ANALYSIS"	7/26/2011	VM-0030-DBR
8,189,926	"METHOD AND SYSTEM FOR AUTOMATICALLY ANALYZING CATEGORIES IN A PHYSICAL SPACE BASED ON THE VISUAL CHARACTERIZATION OF PEOPLE"	5/29/2012	VM-0033-BBC
7,848,548	"METHOD AND SYSTEM FOR ROBUST DEMOGRAPHIC CLASSIFICATION USING POSE INDEPENDENT MODEL FROM SEQUENCE OF FACE IMAGES"	12/7/2010	VM-0038- DPM
8,520,906	"METHOD AND SYSTEM FOR AGE ESTIMATION BASED ON RELATIVE AGES OF PAIRWISE FACIAL IMAGES OF PEOPLE"	8/27/2013	VM-0040-DAP
8,351,647	"AUTOMATIC DETECTION AND AGGREGATION OF DEMOGRAPHICS AND BEHAVIOR OF PEOPLE"	1/8/2013	VM-0042-FIN- CIP
8,027,521	"METHOD AND SYSTEM FOR ROBUST HUMAN GENDER RECOGNITION USING FACIAL FEATURE LOCALIZATION"	9/27/2011	VM-0044-DGC
8,009,863	"METHOD AND SYSTEM FOR ANALYZING SHOPPING BEHAVIOR USING MULTIPLE SENSOR TRACKING"	8/30/2011	VM-0051- MBA
8,379,937	"METHOD AND SYSTEM FOR ROBUST HUMAN ETHNICITY RECOGNITION USING IMAGE FEATURE- BASED PROBABILISTIC GRAPHICAL MODELS"	2/19/2013	VM-0056-DEG
8,577,705	"METHOD AND SYSTEM FOR RATING THE ROLE OF A PRODUCT CATEGORY IN THE PERFORMANCE OF A STORE AREA"	11/5/2013	VM-0061-CSR
8,254,633	"METHOD AND SYSTEM FOR FINDING CORRESPONDENCE BETWEEN FACE CAMERA VIEWS AND BEHAVIOR CAMERA VIEWS"	8/28/2012	VM-0063-BFA

8,010,402	"METHOD FOR AUGMENTING TRANSACTION DATA	8/30/2011	VM-0065-PIN-
	WITH VISUALLY EXTRACTED DEMOGRAPHICS OF		CIP
	PEOPLE USING COMPUTER VISION"		
8,812,344	"METHOD AND SYSTEM FOR DETERMINING THE	8/19/2014	VM-0066-ACI
	IMPACT OF CROWDING ON RETAIL PERFORMANCE"		
8,325,982	"METHOD AND SYSTEM FOR DETECTING AND	12/4/2012	VM-0071-CRT
	TRACKING SHOPPING CARTS FROM VIDEOS"		



Pending Patents Owned By VideoMining (15)				
U.S. App. Patent Number	Title	Original Filing Date	Docket Number	
11/818,554	"METHOD AND SYSTEM FOR MEASURING VIEWERSHIP OF PEOPLE FOR DISPLAYED OBJECT"	6/16/2006	VM-0027- IMP	
12/283,606	"METHOD AND SYSTEM FOR MEASURING EFFECTIVENESS OF A MARKETING CAMPAIGN ON DIGITAL SIGNAGE"	9/12/2008	VM-0039- MCR	
12/220,076	"METHOD AND SYSTEM FOR COLLECTING SHOPPER RESPONSE DATA TIED TO MARKETING AND MERCHANDISING ELEMENTS"	7/21/2008	VM-0052- SMD	
12/228,409	"METHOD AND SYSTEM FOR RATING THE STRENGTH OF A BRAND IN ATTRACTING SHOPPERS RELATIVE TO A PRODUCT CATEGORY"	8/12/2008	VM-0054- BSR	
12/313,459	"METHOD AND SYSTEM FOR EVALUATING CONTENT FOR DIGITAL DISPLAYS BY MEASURING VIEWER RESPONSES BY DEMOGRAPHIC SEGMENTS"	11/20/2008	VM-0058- MCE	
12/386,655	"METHOD AND SYSTEM FOR RATING IN-STORE MEDIA ELEMENTS"	4/21/2009	VM-0064- RIM	
12/459,281	"METHOD AND SYSTEM FOR DETECTING SHOPPING GROUPS BASED ON TRAJECTORY DYNAMICS"	6/29/2009	VM-0069- BBG	
13/999,280	"METHOD AND SYSTEM FOR MEASURING IN-STORE LOCATION EFFECTIVENESS BASED ON SHOPPER RESPONSE AND BEHAVIOR ANALYSIS"	2/5/2014	VM-0074- BLE-CIP	
14/513,696	"METHOD AND SYSTEM FOR ROBUST PERSON TRACKING USING MOBILE SIGNAL AND VIDEO ANALYTICS"	10/14/2014	VM-0076- MVT	
14/692,446	"METHOD AND SYSTEM FOR IN-STORE SHOPPER BEHAVIOR ANALYSIS WITH MULTI-MODAL SENSOR FUSION"	4/21/2015	VM-0077- MMB	
14/986,386	"METHOD AND SYSTEM FOR FINDING CORRESPONDENCE BETWEEN POINT-OF-SALE DATA AND CUSTOMER BEHAVIOR DATA"	12/31/2015	VM-0078- BPA	
14/984,180	"METHOD AND SYSTEM FOR FINDING CORRESPONDENCE BETWEEN POINT-OF-SALE DATA AND CUSTOMER BEHAVIOR DATA"	12/30/2015	VM-0079- APC	
15/004,457	"METHOD AND SYSTEM FOR MEASURING THE EFFECTIVENESS OF IN-STORE MARKETING CAMPAIGN"	1/22/2016	VM-0080- RCR	

© 2016 VideoMining Corporation

Dontidential



15/011,442	"CROSS-CHANNEL IN-STORE SHOPPER BEHAVIOR ANALYSIS"	1/29/2016	VM-0081- MCT
15/051,629	"PERSONALIZED DECISION TREE BASED ON IN-STORE BEHAVIOR ANALYSIS"	2/23/2016	VM-0082- PDT

© 2016 VideoMining Corporation

Confidentia: