PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6874880

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TUOMAS WILHELM SANDHOLM	01/19/2016
FEI PENG	01/19/2016
JOHN PAUL DICKERSON	01/19/2016

RECEIVING PARTY DATA

Name:	OPTIMIZED MARKETS, INC.	
Street Address: 830 AMBERSON AVENUE		
City:	PITTSBURGH	
State/Country:	PENNSYLVANIA	
Postal Code:	15232	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17407380

CORRESPONDENCE DATA

Fax Number: (609)896-1469

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: 6098443000

Email: ipdocket@foxrothschild.com
Correspondent Name: FOX ROTHSCHILD LLP
Address Line 1: 997 LENOX DRIVE

Address Line 4: LAWRENCEVILLE, NEW JERSEY 08648

ATTORNEY DOCKET NUMBER:	155710.00141
NAME OF SUBMITTER:	JAMES SINGER
SIGNATURE:	/James Singer/
DATE SIGNED:	08/20/2021

Total Attachments: 6

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PATENT 506828060 REEL: 057238 FRAME: 0379

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PATENT REEL: 057238 FRAME: 0380

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt of which is hereby acknowledged, by this document

ASSIGNOR(S):			
Name	Address		
Tuomas Wilhelm Sandholm	830 Amberson Avenue, Pittsburgh, PA 15232		
Name	Address		
Fei Peng	6941 Blenheim Ct., Pittsburgh, PA 15208		
ū			
Name	Address		
John Paul Dickerson	5930 Walnut St., #C-3, Pittsburgh, PA 15232		
assigns and transfers to:			
-			
ASSIGNEE:			
Optimized Markets, Inc.	830 Amberson Avenue, Pittsburgh, PA 15232		
the entire right, title and interest in and to the in	nvention entitled:		
•			
	MPAIGN ASSETS TO TIME AND PROGRAM IN DIGITAL DELIVERY SYSTEMS		
WEDIA DELIVERY STOTEMS			
and which is found in (check one or more):			
U.S. provisional patent application nur	nber 62/104,685, filed January 16, 2015		
the U.S. patent application filed with the	nis assignment document		
U.S. patent application no, f	iled filed		
U.S. patent no, issued			
and in and to:			

- all patent applications filed and letters patent obtained for the invention, whether foreign and domestic, and all continuations, continuation-in-part divisions, renewals, reissues, reexaminations, or substitutes of any such patent or patent application;
- all rights to any legal equivalent thereof in a foreign country such as patents of addition, utility models, patents of importation, revalidation patents and inventor certificates;
- the right to apply for patents and inventor certificates relating to the invention, and the right to claim priority to all applications throughout the world in respect of the invention; and
- the right to sue and recover any and all damages and profits, and any and all other remedies, for
 past, present, or future infringements of patents directed to the invention.

ASSIGNOR(S) authorizes ASSIGNEE or its legal representative to insert in this instrument the filing date, serial number, and any other information that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office or any other domestic or foreign government entity for the recordation of this document.

ASSIGNOR(S) warrants and agrees that:

PATENT REEL: 057228 FRAME: 0580

- no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;
- upon request, ASSIGNOR(S) will promptly provide ASSIGNEE with all pertinent facts and documents relating to the invention as may be known and accessible to ASSIGNOR(S);
- ASSIGNOR(S) will, at ASSIGNEE's expense, testify as to the same in any interference, litigation
 or proceeding related to the invention; and
- ASSIGNOR(s) will promptly execute and deliver to ASSIGNEE, its assigns or its legal representatives, without further or additional consideration, any and all papers, instruments or affidavits required, render all necessary assistance, and do such additional acts as ASSIGNEE or its successors or assigns may deem necessary or desirable, to apply for, obtain, maintain, issue and enforce any resulting patents or patent applications.

ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks and any foreign counterpart to issue any and all letters patent for the invention to ASSIGNEE, for ASSIGNEE's sole use and benefit, and for the use and benefit of ASSIGNEE's successors and assigns, to the full end of the term for which any such patent may be granted.

ASSIGNOR(S) agrees that this document shall bind and inure to the benefit of the heirs, assigns and legal representatives of both ASSIGNOR(S) and ASSIGNEE.

Name:	Tuomas Wilhelm. Sandholm	Date:	1/19/2016
Name:	Fei Peng	Date:	
Name:	John Paul Dickerson	Date:	

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Name	Address			
John Paul Dickerson	5930 Walnut St., #C-3, Pittsburgh, PA 15232			
assigns and transfers to:				
ASSIGNEE:	I			
Optimized Markets, Inc.	830 Amberson Avenue, Pittsburgh, PA 15232			
the entire right, title and interest in and to the invention entitled:				
AUTOMATED ALLOCATION OF MEDIA CAMPAIGN ASSETS TO TIME AND PROGRAM IN DIGITAL MEDIA DELIVERY SYSTEMS				
and which is found in (check one or more):				
U.S. provisional patent application number 62/104,685, filed January 16, 2015 the U.S. patent application filed with this assignment document U.S. patent application no, filed International Patent Application no, filed U.S. patent no, issued				
and in and to:				

- all patent applications filed and letters patent obtained for the invention, whether foreign and domestic, and all continuations, continuation-in-part divisions, renewals, reissues, reexaminations, or substitutes of any such patent or patent application;
- all rights to any legal equivalent thereof in a foreign country such as patents of addition, utility models, patents of importation, revalidation patents and inventor certificates;
- the right to apply for patents and inventor certificates relating to the invention, and the right to claim priority to all applications throughout the world in respect of the invention; and
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ASSIGNOR(S) warrants and agrees that:

PATENT REEL: 057228 FRAME: 0582

- no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;
- upon request, ASSIGNOR(S) will promptly provide ASSIGNEE with all pertinent facts and documents relating to the invention as may be known and accessible to ASSIGNOR(S);
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 or proceeding related to the invention; and
- ASSIGNOR(s) will promptly execute and deliver to ASSIGNEE, its assigns or its legal representatives, without further or additional consideration, any and all papers, instruments or affidavits required, render all necessary assistance, and do such additional acts as ASSIGNEE or its successors or assigns may deem necessary or desirable, to apply for, obtain, maintain, issue and enforce any resulting patents or patent applications.

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ASSIGNOR(S) agrees that this document shall bind and inure to the benefit of the heirs, assigns and legal representatives of both ASSIGNOR(S) and ASSIGNEE.

Name:	Tuomas Wilhelm. Sandholm	Date:	
Name:	Fei Peng	Date:	1-19-2015
Name:	John Paul Dickerson	Date:	

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and which is found in (check one or more):				
U.S. provisional patent application number 62/104,685, filed January 16, 2015 the U.S. patent application filed with this assignment document U.S. patent application no, filed International Patent Application no, filed U.S. patent no, issued				
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 - all patent applications filed and letters patent obtained for the invention, whether foreign and domestic, and all continuations, continuation-in-part divisions, renewals, reissues, reexaminations, or substitutes of any such patent or patent application;
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ASSIGNOR(S) warrants and agrees that:

PATENT REEL: 057228 FRAME: 0585

Attorney Docket No. 155710.00101

- no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;
- upon request, ASSIGNOR(S) will promptly provide ASSIGNEE with all pertinent facts and documents relating to the invention as may be known and accessible to ASSIGNOR(S);
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Name:	Tuomas Wilhelm. Sandholm	Date:	
Name:	Fei Peng	Date:	
Name:	John Paul Dickerson	Date:	19 JAN 2016

2 of 2