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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5637887

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| FRANK C. NICHOLAS | 09/08/2014 |
| IAN B. CARSWELL | 09/08/2014 |
| RECEIVING PARTY DATA | |
| Name: | DIZPERSION CORPORATION |
| Street Address: | 1603 ORRINGTON AVENUE |
| Internal Address: | SUITE 2000 |
| City: | EVANSTON |
| State/Country: | ILLINOIS |
| Postal Code: | 60201 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15919878 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
| Phone: | 8479057111 |
| Email: | PARALEGAL@CARDINALLAWGROUP.COM |
| Correspondent Name: | CLG PARALEGAL |
| Address Line 1: | 1603 ORRINGTON AVE. SUITE 2000 |
| Address Line 4: | EVANSTON, ILLINOIS 60201 |
| ATTORNEY DOCKET NUMBER: | 7710.52.USC2 |
| NAME OF SUBMITTER: | ANITA MEDHEKAR |
| SIGNATURE: | /Anita Medhekar/ |
| DATE SIGNED: | 07/26/2019 |
| Total Attachments: 3 | |
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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3034854

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|---|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| FRANK C. NICHOLAS | 09/08/2014 |
| IAN B. CARSWELL | 09/08/2014 |
| RECEIVING PARTY DATA | |
| Name: | DIZPERSION CORPORATION |
| Street Address: | 1603 ORRINGTON AVENUE |
| Internal Address: | SUITE 2000 |
| City: | EVANSTON |
| State/Country: | ILLINOIS |
| Postal Code: | 60201 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14018111 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
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| Email: | clg_docketing@cardinal-ip.com |
| Correspondent Name: | IAN CARSWELL |
| Address Line 1: | 1603 ORRINGTON AVENUE |
| Address Line 2: | SUITE 2000 |
| Address Line 4: | EVANSTON, ILLINOIS 60201 |
| ATTORNEY DOCKET NUMBER: | 7710.52.USC |
| NAME OF SUBMITTER: | JENNIFER ANGELES |
| SIGNATURE: | /Jennifer Angeles/ |
| DATE SIGNED: | 09/23/2014 |
| Total Attachments: 2 | |
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| source=771052USCAssignment#page2.tif | |

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

I, the undersigned, in consideration of the sum of One Dollar (\$1.00) to me in hand paid by the Assignee and other good and valuable consideration, receipt of which is hereby expressly acknowledged, hereby sell, assign and transfer unto DIZPERSION CORPORATION, a corporation organized under the laws of ILLINOIS and having an address of 1603 Orrington Avenue, Suite 2000, Evanston, Illinois 60201, as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to US Patent Application 14/018,111 entitled "METHOD AND SYSTEM FOR PROVIDING NETWORK BASED TARGET ADVERTISING AND ENCAPSULATION," filed September 4, 2013, executed by assignors on the same date as this Assignment, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

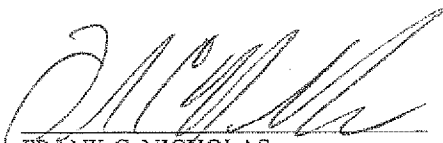
I agree that, when requested, I will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

I authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

I covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.



FRANK C. NICHOLAS

9-8-14
Date

STATE OF ILLINOIS)
) SS
COUNTY OF Cook)

On this 8th day of September 2014, before me personally came the above named FRANK C. NICHOLAS who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the us and purposes therein set forth.




Notary Public

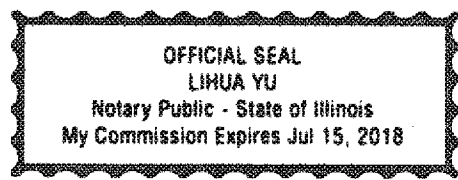
My Commission Expires: 07/15/2018

[Signature]
IAN B. CARSWELL

9/2/14
Date

STATE OF ILLINOIS)
) SS
COUNTY OF Cook)

On this 2th day of September, 2014, before me personally came the above named IAN B. CARSWELL who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the us and purposes therein set forth.



[Signature]
Notary Public
My Commission Expires: 07/15/2018