PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2679461

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | | | | |
| NATURE OF CONVEYANCE: | | ASSIGNMENT | | | | |
| CONVEYING PARTY DATA | | | | | | |
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| | | | lame Execution Da | | | |
| EMMANUEL ROCHE | | | | 01/04/2014 | | |
| YVES SCHABES | | | | 01/07/2014 | | |
| RECEIVING PARTY D | ΑΤΑ | | | | | |
| Name: | LAVARIPPLE | S, LLC | > | | | |
| Street Address: | 68 DRUMLIN | ROAD |) | | | |
| City: | NEWTON | | | | | |
| State/Country: | MASSACHUS | SETTS | | | | |
| Postal Code: | 02459 | | | | | |
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| PROPERTY NUMBER | S Total: 1 | | | | | |
| Property Ty | /pe | | Number | | | |
| Application Number: 1415 | | 14153 | 587 | | | |
| L | | | | | | |
| CORRESPONDENCE | DATA | | | | | |
| Fax Number: | (617 |)646-8 | 646 | | | |
| Phone: | | 646800 | | | | |
| Email: jbergantino@wolfgreenfield.com | | | | | | |
| Correspondence will be sent via US Mail when the email attempt is unsuccessful. | | | | | | |
| Correspondent Name: JAMES G. GOODBERLET | | | | | | |
| Address Line 1: | | | | | | |
| Address Line 4: | Address Line 4: BOSTON, MASSACHUSETTS 02210 | | | | | |
| ATTORNEY DOCKET NUMBER: | | L0755.70001US01 | | | | |
| NAME OF SUBMITTER: | | JO-ANN BERGANTINO | | | | |
| Signature: | | /Jo-Ann Bergantino/ | | | | |
| Date: | | | 01/13/2014 | | | |
| | | | | PATENT | | |

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

Sell, assign and transfer to LavaRipples. LLC, a Massachusetts Limited Liability 1. Company having a place of business at 68 Drumlin Road; Newton, Massachusetts 02459, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 9, 2013 under No. 14/021,662, bearing Attorney Docket No. L0755.70001US00, and entitled DISCUSSION-TOPIC, SOCIAL NETWORK SYSTEMS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea:

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Page 1 of 3

PATENT REEL: 031955 FRAME: 0205

14/2014 Date

Inventor: Emmanuel Roche Address: 140 Fletcher Road Belmont, Massachusetts 02478

Citizenship: US

 STATE/COMMONWEALTH OF
 Mussachusetts

 COUNTY OF
 Middlesex

 On this
 4th

 day of
 January

 personally appeared
 Emmanuel Roche

 identification, which were
 Maggachusetts

 to be the person who signed the preceding or attached document in my presence and swore or affirmed

to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public 07/14/2019

My commission expires:

Page 2 of 3

PATENT REEL: 031955 FRAME: 0206

MATTHEW KOCH ry Public, Commonwealth of Massachusetts My Commission Expires July 14, 2017

| Inventor: | Yves Schabes | |
|--------------|-----------------------|-------|
| Address: | 68 Drumlin Road | |
| | Newton, Massachusetts | 02459 |
| Citizenship: | US | |

STATE/COMMONWEALTH OF COUNTY OF : On this day of , , before me, the undersigned notary public, personally appeared Yves Schabes , proved to me through satisfactory evidence of identification, which were to be the person who signed the preceding or attached document in my presence and swore or affirmed

to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Date

Notary Public

My commission expires:

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to LavaRipples, LLC, a Massachusetts Limited Liability Company having a place of business at 68 Drumlin Road; Newton, Massachusetts 02459, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on September 9, 2013 under No. 14/021,662, bearing Attorney Docket No. L0755.70001US00, and entitled DISCUSSION-TOPIC, SOCIAL NETWORK SYSTEMS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea:

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting tille to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;

4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification provided above, whether discovered prior to or after recordation:

5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Page 1 of 3

PATENT REEL: 031955 FRAME: 0208

| Date | | Inventor: | Emmanuel Roche |
|----------------------------|---------------------------------|---------------------|---|
| | | Address: | 140 Fletcher Road |
| | | | Belmont, Massachusetts 02478 |
| | | Citizenship: | US |
| | | | |
| | | | |
| | | | |
| STATE/COMMONWE/ | ALTH OF | | |
| COUNTY OF | | · | |
| On this | day of | , , , | , before me, the undersigned notary public, |
| personally appeared | sonally appeared Emmanuel Roche | | , proved to me through satisfactory evidence of |
| identification, which were | | | |
| to be the person who s | igned the prec | eding or attached o | document in my presence and swore or affirmed |
| | | | accurate to the best of (his) (her) knowledge |
| | | 5 C | ed it voluntarily for its stated purpose. |
| | - | | |
| | | | |

SEAL

Notary Public

My commission expires:

| | Inventor: | Suda Yves Schabes |
|---|----------------------|---|
| | Address: | 68 Drumlin Road |
| | | Newton, Massachusetts 02459 |
| | Citizenship: | US |
| | | |
| | | |
| | | |
| STATE/COMMONWEALTH OF | <u>6603en3</u> _: | <u>.</u> |
| On this sen day of january | , ac. | , before me, the undersigned notary public, |
| personally appeared Yves Sch | | , proved to me through satisfactory evidence of |
| | hoense | |
| | | document in my presence and swore or affirmed |
| | | accurate to the best of (his) (her) knowledge |
| and belief and acknowledged to me that (h | ie) (sne) signe | d it voluntarily for its stated purpose. |
| | | |
| Notar | an se | |
| Notar | y Public | |
| | | |

Attorney Docket No. L0755.70001US00

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Page 3 of 3

PATENT REEL: 031955 FRAME: 0210

RECORDED: 01/13/2014