### 505794144 11/26/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5840973

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name                | Execution Date |
|---------------------|----------------|
| ABHAYA PARTHY       | 03/13/2017     |
| LEITANG             | 11/21/2019     |
| SRI SUBRAMANIAM     | 11/21/2019     |
| AMBER ROY CHOWDHURY | 01/10/2019     |

### **RECEIVING PARTY DATA**

| Name:             | GROUPON, INC.       |
|-------------------|---------------------|
| Street Address:   | 600 W. CHICAGO AVE. |
| Internal Address: | STE. 620            |
| City:             | CHICAGO             |
| State/Country:    | ILLINOIS            |
| Postal Code:      | 60654               |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14824922 |

### **CORRESPONDENCE DATA**

Fax Number: (650)838-2001

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: 6508382000

Email: sharyl.brown@alston.com **Correspondent Name:** ALSTON & BIRD LLP

Address Line 1: BANK OF AMERICA PLAZA

Address Line 2: 101 SOUTH TRYON STREET, SUITE 4000 Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000

| ATTORNEY DOCKET NUMBER:                                    | 058407/466721     |
|--|-------------------|
| NAME OF SUBMITTER:   | DANA M. ZOTTOLA   |
| SIGNATURE:   | /Dana M. Zottola/ |
| DATE SIGNED:   | 11/26/2019        |
| This document serves as an Oath/Declaration (37 CFR 1.63). |                   |

**PATENT** REEL: 051124 FRAME: 0067 505794144

# Total Attachments: 8 source=466721\_Declaration\_Assignment#page1.tif source=466721\_Declaration\_Assignment#page2.tif source=466721\_Declaration\_Assignment#page3.tif source=466721\_Declaration\_Assignment#page4.tif source=466721\_Declaration\_Assignment#page5.tif source=466721\_Declaration\_Assignment#page6.tif source=466721\_Declaration\_Assignment#page7.tif source=466721\_Declaration\_Assignment#page8.tif

PATENT REEL: 051124 FRAME: 0068

ABA ABHAMA P. BOKUS LEXENDR

Attorney Docket No. 058407/466721

# DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

| Title of Invention                                      | Ranked Relevance Results Using Multi-Featured Scoring Returned From A Universal Relevance Service Framework   |
|---|---|
| As the below  | named inventor, I, hereinafter referred to as the undersigned, hereby declare that:   |
| This declara  | tion is directed to:  |
| <ul> <li>☑ Unite 8/12/</li> <li>☑ Appl 62/03</li> </ul> | tached application, or ad States Application or PCT International Application No. 14/824,922, filed on 2015; ication claims priority from Application Nos. 62/141,063, filed 3/31/2015 and 18,050, filed 8/15/2014, all applications listed above being hereinafter referred to as application(s)"; |
| The above it  | lantified application was made or authorized to be made by me.  |

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Whereas, I have invented certain new and useful improvements in the application identified above; and

Whereas,

### GROUPON, INC.

600 West Chicago Avenue, Suite 620 Chicago, IL 60654

hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in the application identified above, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

Page 1 of 2

PATENT REEL: 051124 FRAME: 0069

This Assignment is deemed to be effective at least as early as the earliest priority date.

LEGAL NAME OF INVENTOR

\_ (Signature)

Date: 3/13/2017

LEOPERD SILBERSTEIN

Market

Abhaya Parthy

Witness

Witness Name (Printed)

Witness

Erma Sawin Witness Name (Printed)

# DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

| Title of  | Ranked Relevance Results Using Multi-Featured Scoring Returned From |
|-----------|---|
| Invention | A Universal Relevance Service Framework                             |

As the below named inventor, I, hereinafter referred to as the undersigned, hereby declare that:

| This d      | eclaration is directed to:   |
|-------------|--|
|             | the attached application, or  Heitad States Application on PCT International Application No. 14/824 022 filed on |
|             | United States Application or PCT International Application No. <u>14/824,922</u> , filed on 8/12/2015;           |
| $\boxtimes$ | Application claims priority from Application Nos. <u>62/141,063</u> , filed <u>3/31/2015</u> and                 |
|             | 62/038,050, filed 8/15/2014, all applications listed above being hereinafter referred to as                      |
|             | the "application(s)";  |

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Whereas, I have invented certain new and useful improvements in the application identified above; and

Whereas,

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hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in the application identified above, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

Page 1 of 2

LEGAL02/39404235v1

This Assignment is deemed to be effective at least as early as the earliest priority date.

LEGAL NAME OF INVENTOR

| / lei tang | / | (Signature) | Date: | 11/21/2019 |  |
|------------|---|-------------|-------|------------|--|
| Lei Tang   |   |             |       |            |  |

# DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

| Title of  | Ranked Relevance Results Using Multi-Featured Scoring Returned From |
|-----------|---|
| Invention | A Universal Relevance Service Framework                             |

As the below named inventor, I, hereinafter referred to as the undersigned, hereby declare that:

| This d      | eclaration is directed to:   |
|-------------|--|
|             | the attached application, or   |
| $\boxtimes$ | United States Application or PCT International Application No. 14/824,922, filed on              |
|             | <u>8/12/2015;</u>  |
| $\boxtimes$ | Application claims priority from Application Nos. <u>62/141,063</u> , filed <u>3/31/2015</u> and |
|             | 62/038,050, filed 8/15/2014, all applications listed above being hereinafter referred to as      |
|             | the "application(s)";  |

The above-identified application was made or authorized to be made by me.

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Whereas, I have invented certain new and useful improvements in the application identified above; and

Whereas,

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hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in the application identified above, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

Page 1 of 2

LEGAL02/39404248v1

This Assignment is deemed to be effective at least as early as the earliest priority date.

LEGAL NAME OF INVENTOR

| 1 5.8h          | / | (Signature) | Date: _ | 11/21/2019 |  |
|-----------------|---|-------------|---------|------------|--|
| Sri Subramaniam |   |             |         |            |  |

# DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

| Title of  | Ranked Relevance Results Using Multi-Featured Scoring Returned From |
|-----------|---|
| Invention | A Universal Relevance Service Framework                             |

As the below named inventor, I, hereinafter referred to as the undersigned, hereby declare that:

| This d      | eclaration is directed to:   |
|-------------|--|
|             | the attached application, or   |
|             | United States Application or PCT International Application No. 14/824,922, filed on              |
|             | <u>8/12/2015;</u>  |
| $\boxtimes$ | Application claims priority from Application Nos. <u>62/141,063</u> , filed <u>3/31/2015</u> and |
|             | 62/038,050, filed 8/15/2014, all applications listed above being hereinafter referred to as      |
|             | the "application(s)";  |
|             |  |

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Whereas, I have invented certain new and useful improvements in the application identified above; and

Whereas,

### GROUPON, INC.

600 West Chicago Avenue, Suite 620 Chicago, IL 60654

hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in the application identified above, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries:

Page 1 of 2

This Assignment is deemed to be effective at least as early as the earliest priority date.

LEGAL NAME OF INVENTOR

| / Amber Koy Chowdhury | / | (Signature) | Date: 1/10/2019 |  |
|-----------------------|---|-------------|-----------------|--|
| Amber Roy Chowdhury   |   |             |                 |  |

Page 2 of 2