

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8048825

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOAQUIN DELGADO	07/30/2020
ROGER HENRY CASTILLO	10/30/2021
BORIS LERNER	06/25/2020
RAMESH MADDULA	07/09/2020
EMMA SAWIN	11/01/2021
ALVARO VILORIA	09/11/2020
JIKAI LEI	07/28/2020
RECEIVING PARTY DATA	
Name:	GROUPON, INC.
Street Address:	600 W. CHICAGO AVE.
Internal Address:	SUITE 620
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60654
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18349777
CORRESPONDENCE DATA	
Fax Number:	(704)444-1111
<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:	7044441000
Email:	usptomail@alston.com, lauren.white@alston.com
Correspondent Name:	ALSTON & BIRD LLP
Address Line 1:	1120 SOUTH TRYON STREET, SUITE 300
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28203-6818
ATTORNEY DOCKET NUMBER:	058407/597926
NAME OF SUBMITTER:	LAUREN E. WHITE
SIGNATURE:	/Lauren E. White/

DATE SIGNED:	07/10/2023
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 18 source=571784 Dec-Assignment#page1.tif source=571784 Dec-Assignment#page2.tif source=571784 Dec-Assignment#page3.tif source=571784 Dec-Assignment#page4.tif source=571784 Dec-Assignment#page5.tif source=571784 Dec-Assignment#page6.tif source=571784 Dec-Assignment#page7.tif source=571784 Dec-Assignment#page8.tif source=571784 Dec-Assignment#page9.tif source=571784 Dec-Assignment#page10.tif source=571784 Dec-Assignment#page11.tif source=571784 Dec-Assignment#page12.tif source=571784 Dec-Assignment#page13.tif source=571784 Dec-Assignment#page14.tif source=571784 Dec-Assignment#page15.tif source=571784 Dec-Assignment#page16.tif source=571784 Dec-Assignment#page17.tif source=571784 Dec-Assignment#page18.tif	

**DECLARATION AND ASSIGNMENT
FOR PATENT AND DESIGN APPLICATIONS**

Title of Invention	MACHINE LEARNING SYSTEMS ARCHITECTURES FOR RANKING
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I. DECLARATION

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

This declaration is directed to:

- ☐ the attached application, or
- ☒ United States Application or PCT International Application No. 16/667,141 filed on October 29, 2019;
- ☒ Application claims priority from U.S. Provisional Application No. 62/752,244, filed October 29, 2018, 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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II. ASSIGNMENT

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;

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned has sold and assigned, and by these presents hereby sells and assigns, unto said assignee its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the invention identified above, including said application for United States Letters Patent, all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

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LEGAL NAME OF INVENTOR

DocuSigned by:
Joaquin Delgado / (Signature) Date: 7/30/2020
Inventor Name: **Joaquin Delgado**

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LEGAL NAME OF INVENTOR

DocuSigned by:
Roger Henry Castillo / (Signature) Date: 30 october 2021
3380AP01-8885472
Inventor Name: **Roger Henry CASTILLO**

**DECLARATION AND ASSIGNMENT
FOR PATENT AND DESIGN APPLICATIONS**

Title of Invention	MACHINE LEARNING SYSTEMS ARCHITECTURES FOR RANKING
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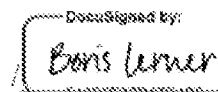
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LEGAL NAME OF INVENTOR

Designed by:
 / (Signature) Date: 6/25/2020
Signature of Inventor:
 Inventor: **Boris Lerner**

**DECLARATION AND ASSIGNMENT
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LEGAL NAME OF INVENTOR

DocuSigned by:
Ramesh Maddula / (Signature) Date: 7/9/2020
Inventor Name: **Ramesh Maddula**

**DECLARATION AND ASSIGNMENT
FOR PATENT AND DESIGN APPLICATIONS**

Title of Invention	MACHINE LEARNING SYSTEMS ARCHITECTURES FOR RANKING
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LEGAL NAME OF INVENTOR

DocuSigned by:
/ Emma Sawin / (Signature) Date: 01 November 2021
0E9F7645G9344E9
Inventor Name: **Emma SAWIN**

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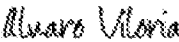
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LEGAL NAME OF INVENTOR

DocuSigned by:

 3650400047054039 / (Signature) Date: 9/11/2020
 Inventor: **Alvaro Vilorio**

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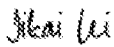
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Chicago, Illinois 60654

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;

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned has sold and assigned, and by these presents hereby sells and assigns, unto said assignee its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the invention identified above, including said application for United States Letters Patent, all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

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

LEGAL NAME OF INVENTOR

DocuSigned by:
 / (Signature) Date: 7/28/2020
BD65417862804846A

Inventor: **Jikai Lei**