# CH \$2265.00 4920

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM588153

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

#### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
Groupon, Inc.		07/17/2020	Corporation: DELAWARE
LivingSocial, LLC		07/17/2020	Limited Liability Company: DELAWARE

#### **RECEIVING PARTY DATA**

Name:	JPMorgan Chase Bank, N.A.
Street Address:	10 S. Dearborn Street
City:	Chicago
State/Country:	ILLINOIS
Postal Code:	60603
Entity Type:	National Banking Association: UNITED STATES

#### **PROPERTY NUMBERS Total: 90**

Property Type	Number	Word Mark
Registration Number:	4920349	AMPLIFIER
Registration Number:	4720984	В
Registration Number:	4774258	CHATTY CAT
Registration Number:	5172113	FORM + FOCUS
Registration Number:	5168546	FORM+FOCUS
Registration Number:	5275964	FORM + FOCUS
Registration Number:	4735586	G PASS
Registration Number:	4448299	G-PASS
Registration Number:	4867729	GROUPON
Registration Number:	4874693	GROUPON
Registration Number:	3685954	GROUPON
Registration Number:	4744246	GROUPON
Registration Number:	5201398	GROUPON
Registration Number:	5224305	GROUPON
Registration Number:	5224306	GROUPON
Registration Number:	5201399	GROUPON
Registration Number:	5119539	GROUPON
Registration Number:	5793209	ACT NOW GROUPON

900560468 REEL: 007006 FRAME: 0374

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	4302184	GROUPON GOODS
Registration Number:	5570694	GROUPON GOODS GATEWAY
Registration Number:	5570693	GROUPON GOODS GATEWAY
Registration Number:	4606880	GROUPON GRASSROOTS
Registration Number:	5100539	GROUPON
Registration Number:	4222645	GROUPON
Registration Number:	5219206	GROUPON MERCHANT
Registration Number:	5360422	GROUPONMERCHANT
Registration Number:	5360423	GROUPONMERCHANT
Registration Number:	5228797	GROUPON MERCHANT
Registration Number:	5228796	GROUPON MERCHANT
Registration Number:	5219207	GROUPON MERCHANT
Registration Number:	5166603	GROUPON PAYMENTS
Registration Number:	5563833	GROUPON PEOPLE
Registration Number:	4283740	GROUPON RESERVE
Registration Number:	5704982	GROUPON SELECT
Registration Number:	4970391	GROUPON TO GO
Registration Number:	4846131	GROUPON TO GO
Registration Number:	4846130	GROUPON TO GO
Registration Number:	4970389	GROUPON TO GO
Registration Number:	4309987	GROUPON VIP
Registration Number:	5569261	GROUPON VOLUNTEERS
Registration Number:	4774257	GROUPON WINES
Registration Number:	5412952	GROUPON+
Registration Number:	5442615	GROUPON+
Registration Number:	4068591	GROUPONLIVE
Registration Number:	5157898	GROUPONSULTATION
Registration Number:	3965842	GROUPONWORKS
Registration Number:	5532654	HAVE-DONES
Registration Number:	5536280	HAVES
Registration Number:	5393931	IF YOU'RE GOING TO OWN SOMETHINGOWN T
Registration Number:	4774259	JAZZY CAT
Registration Number:	5449075	LIFE IS A LIMITED TIME OFFER
Registration Number:	3886244	LIVINGSOCIAL
Registration Number:	3921220	LIVINGSOCIAL
Registration Number:	5391280	LIVINGSOCIAL
Registration Number:	4055498	LIVINGSOCIAL
Registration Number:	5654358	LOCAL HEART, GLOBAL IMPACT

Property Type	Number	Word Mark
Registration Number:	5654357	
Registration Number:	5242900	LOOK FORWARD WE'VE GOT YOUR BACK
Registration Number:	5536349	LOOK FORWARD WE'VE GOT YOUR BACK
Registration Number:	5219208	
Registration Number:	5228798	
Registration Number:	5219209	
Registration Number:	5038104	OAK & RUSH
Registration Number:	5151587	OLIVE STREET
Registration Number:	4953210	OLIVE STREET
Registration Number:	4941779	ONTEK
Registration Number:	4886789	ONTEK
Registration Number:	5107817	ORDERUP
Registration Number:	5107818	ORDERUP
Registration Number:	5107803	ORDERUP
Registration Number:	5011700	ORDERUP
Registration Number:	5107807	ORDERUP
Registration Number:	5107804	ORDERUP
Registration Number:	5107805	ORDERUP
Registration Number:	5556242	OWN THE EXPERIENCE
Registration Number:	4941342	RESTAURANTS PLUS
Registration Number:	6081945	REWRITE THE LIST
Registration Number:	4793339	SNAP BY GROUPON
Registration Number:	4780646	SNAP BY GROUPON
Registration Number:	4774260	SNAZZY CAT
Registration Number:	5046149	SOCIOLOGY
Registration Number:	4937119	
Registration Number:	4665537	STAMPEDE
Registration Number:	5242899	TAKE THE NEXT STEP TO GROW YOUR BUSINESS
Registration Number:	5242898	TAKE THE NEXT STEP TO GROW YOUR BUSINESS
Registration Number:	4828538	TOP CAT
Registration Number:	4946594	
Registration Number:	4938544	
Registration Number:	5032528	WEXLEY HOME
Registration Number:	5649670	YOU ONLY LIVE ONCE. BUT YOU CAN ALWAYS L

#### **CORRESPONDENCE DATA**

**Fax Number:** 3127069000

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:** 3127018209

**Email:** mmthomas@mayerbrown.com, mdecember@mayerbrown.com

Correspondent Name: Madelaine M. Thomas
Address Line 1: 71 S. Wacker Drive
Address Line 2: Mayer Brown LLP

Address Line 4: Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	14452363
NAME OF SUBMITTER:	Madelaine M. Thomas
SIGNATURE:	/Madelaine M. Thomas/
DATE SIGNED:	07/23/2020

#### **Total Attachments: 35**

source=Groupon Patent and Trademark Security Agreement#page1.tif source=Groupon Patent and Trademark Security Agreement#page2.tif source=Groupon Patent and Trademark Security Agreement#page3.tif source=Groupon Patent and Trademark Security Agreement#page4.tif source=Groupon Patent and Trademark Security Agreement#page5.tif source=Groupon Patent and Trademark Security Agreement#page6.tif source=Groupon Patent and Trademark Security Agreement#page7.tif source=Groupon Patent and Trademark Security Agreement#page8.tif source=Groupon Patent and Trademark Security Agreement#page9.tif source=Groupon Patent and Trademark Security Agreement#page10.tif source=Groupon Patent and Trademark Security Agreement#page11.tif source=Groupon Patent and Trademark Security Agreement#page12.tif source=Groupon Patent and Trademark Security Agreement#page13.tif source=Groupon Patent and Trademark Security Agreement#page14.tif source=Groupon Patent and Trademark Security Agreement#page15.tif source=Groupon Patent and Trademark Security Agreement#page16.tif source=Groupon Patent and Trademark Security Agreement#page17.tif source=Groupon Patent and Trademark Security Agreement#page18.tif source=Groupon Patent and Trademark Security Agreement#page19.tif source=Groupon Patent and Trademark Security Agreement#page20.tif source=Groupon Patent and Trademark Security Agreement#page21.tif source=Groupon Patent and Trademark Security Agreement#page22.tif source=Groupon Patent and Trademark Security Agreement#page23.tif source=Groupon Patent and Trademark Security Agreement#page24.tif source=Groupon Patent and Trademark Security Agreement#page25.tif source=Groupon Patent and Trademark Security Agreement#page26.tif source=Groupon Patent and Trademark Security Agreement#page27.tif source=Groupon Patent and Trademark Security Agreement#page28.tif source=Groupon Patent and Trademark Security Agreement#page29.tif source=Groupon Patent and Trademark Security Agreement#page30.tif source=Groupon Patent and Trademark Security Agreement#page31.tif source=Groupon Patent and Trademark Security Agreement#page32.tif source=Groupon Patent and Trademark Security Agreement#page33.tif source=Groupon Patent and Trademark Security Agreement#page34.tif source=Groupon Patent and Trademark Security Agreement#page35.tif

#### PATENT AND TRADEMARK SECURITY AGREEMENT

This **PATENT AND TRADEMARK SECURITY AGREEMENT**, dated as of July 17, 2020 (as it may be amended, restated, supplemented or otherwise modified from time to time, this "**Agreement**"), is made by the grantors signatory hereto (the "**Grantors**" and each a "**Grantor**") in favor of JPMorgan Chase Bank, N.A., in its capacity as administrative agent (the "**Administrative Agent**") for the Secured Parties (as defined in the Pledge and Security Agreement, defined below).

WHEREAS, Groupon, Inc., a Delaware corporation ("Groupon"), various financial institutions and the Administrative Agent are parties to that certain Second Amended and Restated Credit Agreement dated as of May 14, 2019, as amended by that certain first amendment thereto dated as of July 17, 2020 (as further amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement");

WHEREAS, the Grantors, each subsidiary of Groupon party thereto and the Administrative Agent are parties to that certain Second Amended and Restated Subsidiary Guaranty dated as of May 14, 2019 (as amended, restated, supplemented or otherwise modified from time to time, the "Subsidiary Guaranty");

WHEREAS, the Grantors, each subsidiary of Groupon party thereto and the Administrative Agent have agreed to amend and restate that certain Second Amended and Restated Pledge and Security Agreement dated as of May 14, 2019 pursuant to a Third Amended and Restated Pledge and Security Agreement dated as of July 17, 2020 (as amended, restated, supplemented or otherwise modified from time to time, the "Pledge and Security Agreement");

WHEREAS, the parties hereto have agreed to enter into this Patent and Trademark Security Agreement;

**NOW, THEREFORE**, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Grantor hereby agrees with the Administrative Agent as follows:

#### **SECTION 1.** Defined Terms

Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

#### **SECTION 2.** Grant of Security Interest

**SECTION 2.1 Grant of Security**. Each Grantor hereby pledges, assigns and grants to the Administrative Agent, on behalf of and for the ratable benefit of the Secured Parties, a security interest in all of its right, title and interest in, to and under the following, whether now owned by or owing to, or hereafter acquired by or arising in favor of such Grantor (including under any trade name or derivations thereof), and regardless of where located (collectively, the "**Patent and Trademark Collateral**"):

(a) Trademarks. (i) All trademarks (including service marks), trade names, trade dress, and trade styles and the registrations and applications for registration thereof and the goodwill of the business symbolized by the foregoing (including, without limitation, each trademark application and registration listed on Schedule A hereto under the heading "Trademarks"; (ii) all Licenses of the foregoing, whether as licensee or licensor; (iii) all renewals of the foregoing; (iv) all income, royalties, damages, and payments now or hereafter due or payable with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (v) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving

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claims and demands for royalties owing; and (vi) all rights corresponding to any of the foregoing throughout the world.

- (b) Patents. (i) Any and all patents and patent applications, including, without limitation, each patent application and registration listed on Schedule A hereto under the heading "Patents"; (ii) all inventions and improvements described and claimed therein; (iii) all reissues, divisions, continuations, renewals, extensions, and continuations-in-part thereof; (iv) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future infringements thereof; (v) all rights to sue for past, present, and future infringements thereof; and (vi) all rights corresponding to any of the foregoing throughout the world.
- (c) Licensing. (i) any and all licensing agreements or similar arrangements in and to its Patents or Trademarks including each agreement listed in Schedule A attached hereto under the heading "Patent and Trademark Licenses", (ii) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future breaches thereof, and (iii) all rights to sue for past, present, and future breaches thereof.

SECTION 2.2 Certain Limited Exclusions. Notwithstanding anything herein to the contrary, in no event shall the Patent and Trademark Collateral include or the security interest granted under Section 2.1 hereof attach to any agreement, license or covenant to which a Grantor is a party, and any of its rights or interest thereunder, if and to the extent that a security interest is prohibited by or in violation of (i) any law, rule or regulation applicable to such Grantor, (ii) any lease, license or agreement or any property subject to a purchase money security interest or similar arrangement to the extent that a grant of a security interest therein would violate or invalidate such lease, license or agreement or purchase money arrangement or create a right of termination in favor of any other party thereto after giving effect to the applicable anti-assignment provisions of the UCC or other applicable law, other than proceeds and receivables thereof, the assignment of which is expressly deemed effective under the UCC or other applicable law notwithstanding such prohibition, provided that the Patent and Trademark Collateral shall include and such security interest shall attach immediately at such time as the condition causing such violation, invalidation or right of termination shall be remedied and to the extent severable, shall attach immediately to any portion of such lease, license, agreement, property subject to a purchase money security interest or similar arrangement that does not result in any of the consequences specified above or (iii) any intent-to-use trademark application prior to the filing of a "Statement of Use" or "Amendment to Allege Use" with respect thereto, to the extent, if any, that, and solely during the period, if any, in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark application under applicable federal law.

#### **SECTION 3.** Security Agreement

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Administrative Agent on behalf of and for the ratable benefit of the Secured Parties pursuant to the Pledge and Security Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the security interest in the Patent and Trademark Collateral made and granted hereby are more fully set forth in the Pledge and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Agreement is deemed to conflict with the Pledge and Security Agreement, the provisions of the Pledge and Security Agreement shall control.

#### **SECTION 4.** Choice of Law

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# THIS SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

#### **SECTION 5.** Counterparts

This Agreement may be executed in any number of counterparts, all of which taken together shall constitute one agreement, and any of the parties hereto may execute this Agreement by signing any such counterpart. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Agreement.

[Remainder of page intentionally left blank]

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**IN WITNESS WHEREOF**, each Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

#### **Grantors:**

GROUPON, INC.

Docusigned by:
Mulissa Thomas
——8FF6A694C748479...

Ву:\_\_

Name: Melissa Thomas

Title: Chief Financial Officer

LIVINGSOCIAL, LLC (f/k/a LivingSocial, Inc.)

By: Groupon Inc. its sole member

By: \_\_\_\_\_\_BFF6A694C748479...

Name: Melissa Thomas

Title: Chief Financial Officer

[Signature Page to Patent and Trademark Security Agreement]

Accepted and Agreed: JPMORGAN CHASE BANK, N.A. as Administrative Agent

Ву:

Name: Min Park

Title: Executive Director

# SCHEDULE A TO PATENT AND TRADEMARK SECURITY AGREEMENT

**PATENTS** 

See attached

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Owner	Poforor 4	Sorial #	Filed Data	Title	Publication #	Patent #	Issue Date	Status	Country ID
OWITE	Reference # 426643	Serial # 09/605,818	Filed Date 6/28/2000	Title System And Method For Utilizing	Publication #	Patent # 7,627,498	Issue Date 12/1/2009	Status ISSUED	Country ID US
	720043	05,005,616	0,20,2000	Redemption Information		7,027,430	12,1,2003	133010	53
Groupon, Inc.		1	1						
	432801	11/307,262	1/30/2006	System For Providing A Service To	2007-0179792	7,788,188	8/31/2010	ISSUED	US
			1	Venues Where People Aggregate					
Groupon, Inc.									
	426578	11/404,102	4/13/2006	Pay-For-Visit Advertising Based On	2007-0185768	8,311,845	11/13/2012	ISSUED	US
				Visits To Physical Locations					
Groupon, Inc.	444050	11/600 761	2/20/2007	Landing Board Advertice		0.245.005	11/20/2012	ICCLUED	LIC
	444859	11/688,761	3/20/2007	Location Based Advertising Systems		8,315,905	11/20/2012	ISSUED	US
Groupon, Inc.				Systems					
атопрот, те.	426597	11/697,617	4/6/2007	Facilitating User Interactions	2007-0237096	7,840,224	11/23/2010	ISSUED	US
			1, -,	Based On Proximity			,,		
Groupon, Inc.				· ·					
	426571	12/082,836	4/14/2008	Location-Based Information	2009-0005968	7,953,548	5/31/2011	ISSUED	US
				Determination					
Groupon, Inc.			<u> </u>						
	426573	12/150,565	4/28/2008	Determining Locations Of Interest	2009-0005987	8,135,505	3/13/2012	ISSUED	US
				Based On User Visits					
Groupon, Inc.	427000	12/110 465	F /12 /2008	Continuost Cuturation Consu	2000 0282010	0.646.078	5/9/2017	ISSUED	US
	427060	12/119,465	5/12/2008	Sentiment Extraction From Consumer Reviews For Providing	2009-0282019	9,646,078	5/9/2017	ISSUED	US
Groupon, Inc.				Product Recommendations					
Groupori, me.	426809	12/169,599	7/8/2008	Implicitly Associating Metadata		9,235,848	1/12/2016	ISSUED	US
			1	Using User Behavior	1	1. /		1	
Groupon, Inc.	_L_			<u> </u>	<u></u> _				
	432802	12/161,554	7/18/2008	System For Providing A Service To	2008-0306826	7,856,360	12/21/2010	ISSUED	US
		1	1	Venues Where People Aggregate	1				
Groupon, Inc.	1	1	1		ļ	1	1		1
	432789	12/182,592	7/30/2008	System For Marketing Campaign	2009-0024477	8,103,519	1/24/2012	ISSUED	us
C				Specification And Secure Digital					
Groupon, Inc.	488870	12/277,237	11/24/2008	Coupon Redemption  Ranking Interactions Between	2009-0217178	8,499,247	7/30/2013	ISSUED	US
	466670	12/2//,23/	11/24/2008	Users On The Internet	2009-021/1/8	0,433,247	7/30/2013	1330ED	03
Groupon, Inc.				osers on me memer					
Groupori, me.	432807	12/396,467	3/2/2009	Method For Providing Information	2010-0223097	9,235,842	1/12/2016	ISSUED	US
			-,-,	To Contacts Without Being Given		-,,-			
Groupon, Inc.				Contact Data					
	426777	12/592,947	12/4/2009	System And Methods For Discount	2010-0287044	8,301,495	10/30/2012	ISSUED	US
				Retailing					
Groupon, Inc.			<u> </u>			_			
	426769	12/776,028	5/7/2010	System And Methods For Discount	2010-0287103	8,355,948	1/15/2013	ISSUED	US
Craunan Ina				Retailing					
Groupon, Inc.	488866	12/906,876	10/18/2010	Systems And Methods To	2011-0125566	9,275,407	3/1/2016	ISSUED	US
	488800	12/300,870	10/18/2010	Implement Point Of Sale (POS)	2011-0125500	3,273,407	3/1/2010	133010	03
Groupon, Inc.				Terminals, Process Orders And					
	426580	12/950,709	11/19/2010	Facilitating User Interactions	2011-0151892	8,150,439	4/3/2012	ISSUED	US
				Based On Proximity					
Groupon, Inc.									
	426768	13/050,771	3/17/2011	System And Methods For	2011-0313840	8,650,072	2/11/2014	ISSUED	US
				Providing Location Based Discount					
Groupon, Inc.	F3F3C3	13/176,883	7/6/2011	Retailing	2012 0000220	10,521,813	12/21/2010	ISSUED	US
	525262	13/1/6,883	7/6/2011	System and Method for Incentives	2013-0080239	10,521,813	12/31/2019	ISSOED	05
Groupon, Inc.	1		1		1				
	426807	13/219,344	8/26/2011	Embedded Storefront	1	9,679,305	6/13/2017	ISSUED	US
		1 . ,			1	' '			
Groupon, Inc.					<u> </u>				
	432826	13/329,307	12/18/2011	System For Marketing Campaign	2012-0089453	8,583,447	11/12/2013	ISSUED	US
	1		1	Specification And Secure Digital	1			1	
Groupon, Inc.	1	1	1	Coupon Redemption	ļ	1	1		1
	488868	13/354,947	1/20/2012	Systems And Methods To	2012-0191522	10,102,591	10/16/2018	ISSUED	us
Craunce le		1	1	Implement Point Of Sale (POS)	1				
Groupon, Inc.	426581	13/363,239	1/31/2012	Terminals, Process Orders And Facilitating User Interactions	2012-0329483	9,614,921	4/4/2017	ISSUED	US
	420301	13/303,239	1,31,2012	Based On Proximity	2012-0323403	3,014,321	4,4,201/	133010	03
Groupon, Inc.		1	1		1				
, ,	426575	13/385,103	2/1/2012	Determining Locations Of Interest	2012-0310736	8,756,011	6/17/2014	ISSUED	US
		- ,		Based On User Visits		' '			
Groupon, Inc.									
	488864	13/405,664	2/27/2012	Merchant Deal Creation And	2012-0226540	10,657,569	5/19/2020	ISSUED	US
		1	1	Redemption System	1			1	
Groupon, Inc.	1	1	1		ļ	1	1	1	
	426576	13/418,208	3/12/2012	Method And System For Enabling	2013-0035114	9,100,454	8/4/2015	ISSUED	us
Groupen In-	1		1	The Creation And Maintenance Of Proximity-Related User Groups	1			1	
Groupon, Inc.	426577	13/436,461	3/30/2012	Dynamic Awarding Of Prizes In	<del>                                     </del>	9,142,081	9/22/2015	ISSUED	US
	7203//	1-5,450,461	3,30,2012		I	J,1-12,UO1	3,22,2013	133010	55
				[Chance-Based Contosts					
Groupon, Inc.				Chance-Based Contests					

\$4,000   \$1,000   \$1,000   \$0,000   \$1,000   \$										
Processor   Proc		436789	13/444,678	4/11/2012			9,384,211	7/5/2016	ISSUED	US
STREEDING   1,000										
Page	Groupon, Inc.									
Office Control Corpus   Company   Price   Company   Co		436800	13/444,691	4/11/2012			9,563,644	2/7/2017	ISSUED	US
March   Marc	<u>.</u> .									
And Act Actions	Groupon, Inc.	126005	42/452 460	4/20/2012	<u> </u>		0.202.000	2 /22 /204 6	ICCLIED	116
March   Marc		426805	13/452,469	4/20/2012			9,292,880	3/22/2016	ISSUED	US
Goupeo, No.	Groupon Inc				And Activities					
Foreignon, Inc.   43993   13/470,138   5713/2012   System and Verdende for Providing Congroun, Inc.   426786   13/481,407   5723/2012   System and Verdende for Providing Congroun, Inc.   426786   13/481,407   5723/2012   System and Verdende for Providing Congroun, Inc.   426787   13/481,207   5723/2012   System and Verdende for Providing Congroun, Inc.   426797   13/481,2384   9112/2012   System and Verdende for Providing Congroun, Inc.   426798   13/481,2384   9112/2012   System and Verdende for Providing Congroun, Inc.   426792   13/481,2153   914/2012   System and Verdende for Providing Congroun, Inc.   426792   13/481,2153   914/2012   System and Verdende for Providing Congroun, Inc.   426982   13/481,7133   3012/2012   System and Verdende for Providing Congroun, Inc.   426982   13/481,7133   3012/2012   System and Verdende for Providing Congroun, Inc.   426982   13/481,7133   3012/2012   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congroun, Inc.   426982   13/481,7131   System and Verdende for Providing Congrounde For Annual Analysis of Providing Congrounde For Annual An	отопроп, пк.	488862	13/467 168	5/9/2012	Facilitating End-To-End Encryption		10 607 218	3/31/2020	ISSUED	LIS
Grouppon, Inc.		1400002	15,407,100	3,3,2012			10,007,218	3,31,2020	133020	05
15/19/2013   13/49/2013   13/	Groupon, Inc.									
Grouppon, Inc.  - 428781 13/483, 407 57578212 Companing Early Applears And Protection Interface Statistics (Companing Early Applears And Protection Interface Statistics) - 428797 13/412, 594 9112/2022 Payer-Novill Applears And Protection Interface Statistics - 428798 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428798 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/412, 555 9114/2022 Payer-Novill Applears Payer Only - 428799 13/4141 13/13/2022 Payer-Novill Applears Payer Payer-Novill Applears Payer P	' '	431933	13/470,338	5/13/2012	System And Method For Providing		9,489,352	11/8/2016	ISSUED	US
Golgon, No.   428769   12/401,407   9727/2012   Comporting plant of positions and process and proces					Links To Content To Users Based					
Congroup, Inc.   426579   13/612,599   9/12/2012   Pay-E-roller And Peterboris   Firemactical Data (Cardinal Data (Cardina) Data (Cardinal Data (Cardinal Data (Cardinal Data (Cardinal Data)	Groupon, Inc.				On Similar Other Users					
Circupon, Inc.   42679   13/012,594   912/2012   Fig. For-Port Marker Sering Based On 2013-0006770   0.380,658   M.13/2019   SSUCO US		426788	13/481,407	5/25/2012	Computing Early Adopters And	2013-0132158	10,580,022	3/3/2020	ISSUED	US
Circupon, Inc.   126779   137612,594   1712/2012   Pay-fev-flat Alvertrising Based on 2013-0000770   10,380,688   8/13/2019   554ED   05					Potential Influencers Using					
Eirespen, Re. 427739 13/617.515 9/14/2012 Systems And Miertook For Competer Reading Comments (Competer Reading) 13/617.515 9/14/2012 Systems And Miertook For Competer Reading Comments (Competer Reading) 13/617.718 13/677.788 13/677.788 13/677.788 13/677.788 13/677.728 13/6727.212 Executing Relative Expenses (Competer Reading) 13/677.788 13/677.788 13/677.728 13/6727.212 Executing Relative Expenses (Competer Reading) 13/677.788 13/677.788 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/677.728 13/672.7282 13/67	Groupon, Inc.									
Grouppon, Inc.   42/973   12/917,515   9714/2012   Systems And Methods For Documin Realing   2013-018513   8,502,733   127/2014   SSUED   US		426579	13/612,594	9/12/2012		2013-0006770	10,380,658	8/13/2019	ISSUED	US
Crospon, Inc.   49293   13/617-315   91/47-2012   Systems And Methods For   2013-6286135   8,903,733   12/27/2014   SSUED   US					Visits To Physical Locations					
Discour Retailing	Groupon, Inc.	10.5700	10/017 515	0.14 4 10.04 0		2012 0105105	0.000 =00	10/0/0014		
Groupon, Inc.  49853 13/873,788 10/872012 Official Location-Based Comsumer Metrics Using Groiped, Inc.  425462 13/697,728 10/22/2012 Cecusing Multiple Transactions 2013-0109538 5,665,898 5/30/2017 ISSUED US Groupon, Inc.  425462 13/697,728 10/22/2012 Cecusing Multiple Transactions 2013-0109538 5,665,898 5/30/2017 ISSUED US Groupon, Inc.  426799 13/744,141 12/77/2013 Crisil Suggestor System 2013-0105318 9,223,774 12/29/2015 ISSUED US Groupon, Inc.  427790 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Providing Absolute For Inc.  42779 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42779 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem And Method For Providing Absolute For Inc.  42789 13/754,035 12/24/2013 Mystem For Inc.  42789 13/754,035 12/24/2013 Providing Absolute For Inc.  42789 13/754,529 12/24/2013 Consumer Device Based Point-Of-Inc.  428910 13/794,520 12/24/2013 Con		426/93	13/61/,515	9/14/2012	1 1	2013-0185135	8,903,/33	12/2/2014	ISSUED	US
Groupon, Inc.   42592   13/73,188   20/3/2012   Colline Location-Sead Consumer   Sp.508,082   11/29/2016   SSVED   US	Craunan Ina				Discount Retailing					
Activation   Act	Groupon, inc.	460222	12/572 702	10/2/2012	Offling Location Recod Consumer	+	0 500 003	11/20/2016	ISSUED	HC
Groupon, Inc.    22582   31/657,728   39/22/2012   Concenting Multiple Transactions   Coll-O10538   9,665,898   5/30/2017   SSUED   US		409333	13/3/3,763	10/3/2012			3,308,082	11/29/2010	1330ED	03
Groupon, Inc.  42878	Groupon Inc				Wednes osing offine signals					
Groupon, Inc.  42879 13/744,141 1/17/2013 6mal Segestor System 2013-0188311 9,223,774 12/29/2015 ISSUED US Groupon, Inc.  428783 13/749,272 1/22/2013 Method, Apparatus, And Compater Readable Medium For Providing A Syl-Secretary (Compater Readable Medium For Providing A Syl-Secretary (Compater Readable Medium For Providing A Syl-Secretary (Compater Readable Medium For Providing A) Syl-Secretary (Compater Readable Medium For Provider For Providing A) Syl-Secretary (Compater Readable Medium For Provider For Provider For Provider For Provider For Provider For Pr	отоброт, те	425482	13/657,728	10/22/2012	Executing Multiple Transactions	2013-0103538	9.665,898	5/30/2017	ISSUED	US
Groupon, Inc.  42879 13744,141 1772013 6mail Suggestor System 2013-0185311 9,228,774 1729/2015 SSUED US Groupon, Inc.  428793 13749,272 1724/2013 6mail Suggestor System 2013-0185311 9,228,774 1729/2015 SSUED US Groupon, Inc.  428799 13751,035 1725/2013 System And Computer Readable Medium For Providing A Self-Service Interface (Providing A Self-Service Interface) (Providing A Sel			,,	,,			-,,	, , , , , , , , , , , , , , , , , , , ,		
Groupon, Inc.  42879 137/44,141 1/17/2013 Emill Suggestor System  2013-0185911 9,223,774 12/29/2015 SSUED US  Groupon, Inc.  428783 13/749,272 1/24/2013 Mechod, Apparatus, And Computer Readable Medium For Providing Application of Application of Providing Application of P	Groupon, Inc.									
A28783   13/749,272   12/2/2013   Method, Apparatus, And Computer Readable Medium For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22740   13/773,184   2/21/2013   Method, Apparatus And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A228869   13/790,763   3/8/2013   A227210   A2272	, ,	428879	13/744,141	1/17/2013	Email Suggestor System	2013-0185311	9,223,774	12/29/2015	ISSUED	US
A28783   13/749,272   12/2/2013   Method, Apparatus, And Computer Readable Medium For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22779   13/751,035   1/25/2013   System And Method For Providing A Self-Service Interface   A22740   13/773,184   2/21/2013   Method, Apparatus And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A227410   13/783,503   3/4/2013   Method, Apparatus, And System   A228869   13/790,763   3/8/2013   A227210   A2272										
Groupon, Inc.    Computer Readable Medium For Providing A Self-Service Interface   System And Method For Foreign Mobile Application And Associated Apparatus And System   System And Method For Foreign Mobile Application And Associated Apparatus And System   System And Method For Foreign Mobile Application And Associated Apparatus And System   System And Method Apparatus, And System	Groupon, Inc.									
Providing A 5615-Service Interface		428783	13/749,272	1/24/2013	Method, Apparatus, And	2014-0207584	10,304,093	5/28/2019	ISSUED	US
Agroupon, Inc.   Agro					Computer Readable Medium For					
Mobile Aletts To Members Of A   Social Network   Social	Groupon, Inc.				· ·					
Social Network   Soci		432779	13/751,035	1/25/2013		2013-0137464	9,105,039	8/11/2015	ISSUED	US
A25364   13/773,184   2/21/2013   Method for Testing Mobile   9,208,063   12/8/2015   SSUED   US										
Application And Associated Associated Application And Associated Application And Associated Associ	Groupon, Inc.									
Apparatus And System		425364	13/773,184	2/21/2013	-		9,208,063	12/8/2015	ISSUED	US
A27410   13/783,503   3/4/2013   Method, Apparatus, And Computer Program Product For Groupon, Inc.   A26910   13/794,529   3/13/2013   Discovery Of New Business Opening, Univ.   A27408   13/794,529   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/794,529   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/794,529   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/797,570   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/797,570   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/797,264   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/797,264   3/12/2013   Discovery Of New Business Opening, Univ.   A27408   13/800,536   3/13/2013   Employee Profile For Customer Assignment, Analytics And Computer Program Product For Ranking Content Channels   A27408   A27408   A27408   A3/14/2013   A2740213   Method, Apparatus, And Computer Program Product For Ranking Content Channels   A27408   A27408   A3/14/2013   A2740213   Method, Apparatus, And Computer Program Product For Result For Processing Demand   A27408   A3/14/2013   A3/14/2013   Method, Apparatus, And Computer Program Product For Result For Res	C I				1 7 7					
Computer Readable Medium For Providing A Digital Unwrapping   Provider Residue   Process   Provider Residue   Process   Provider Residue   Process   Provider Residue   Process   Provider Residue   Provider R	Groupon, Inc.	427410	12/702 502	2/4/2012		2014 0240052	10.006.056	10/0/2019	ICCLIED	LIC
Providing A Digital Unwrapping		427410	13/763,303	3/4/2013	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2014-0249955	10,096,036	10/9/2018	1330ED	US
A30869   13/790,763   3/8/2013   Optimizing A Data Integration   9,235,652   1/12/2016   ISSUED   US	Groupon Inc				l '					
Process   Proc	отопрот, те.	430869	13/790,763	3/8/2013			9.235.652	1/12/2016	ISSUED	us
A24976   13/794,529   3/11/2013   Consumer Device Based Point-Of-Sale   9,576,286   2/21/2017   ISSUED   US			' '				1'''			
Sale	Groupon, Inc.									
A25362   13/797,570   3/12/2013   Discovery Of New Business Openings Using Web Content Analysis   A1797,264   3/12/2013   Employee Profile For Customer Assignment, Analytis   A1797,264   3/12/2013   Employee Profile For Customer Assignment, Analytis   A1797,264   A179		424976	13/794,529	3/11/2013	Consumer Device Based Point-Of-		9,576,286	2/21/2017	ISSUED	US
A25362   13/797,570   3/12/2013   Discovery Of New Business   Openings Using Web Content   Analysis   Analys					Sale					
Groupon, Inc.   Groupon, Inc	Groupon, Inc.									
Analysis		425362	13/797,570	3/12/2013	1 '		9,122,710	9/1/2015	ISSUED	US
A										
Assignment, Analytics And   Payments   Assignment, Analytics And   Computer Program Product For Ranking Content Channels   Azes 13/801,610   3/13/2013   Consumer Presence Based Deal   2014-0108108   10,235,692   3/19/2019   ISSUED   US   Azes 13/826,692   3/19/2019   ISSUED   US   Azes 13/826,757   3/14/2013   Method, Apparatus, And   Payments   Are to petermining A Provider Return   Payments   Payments   Are to petermining A Provider Return   Payments	Groupon, Inc.						<b>-</b>			
Payments   A28910   13/800,536   3/13/2013   Method, Apparatus, And Computer Program Product For Ranking A Provider Return   A28915   13/801,610   3/13/2013   Method, Apparatus, And Officer Program Product For Determining A Provider Return   A28916   A28917   A28917   A28918   A2		424988	13/797,264	3/12/2013			10,482,511	11/19/2019	ISSUED	us
A28910										
Computer Program Product For Ranking Content Channels   2014-0108108   10,235,692   3/19/2019   ISSUED   US	Groupon, Inc.	428010	12/900 526	2/12/2012		2014 0046027	0 177 021	11/2/2015	ISSUED	IIC
Ranking Content Channels   Ranking Channels   Ranking Channels   Ranking Channels   Ranking Channels		420310	13/600,336	3/13/2013		2014-004693/	3,177,031	11/3/2013	133020	03
428915   13/801,610   3/13/2013   Consumer Presence Based Deal Offers   2014-0108108   10,235,692   3/19/2019   ISSUED   US	Groupon, Inc.							1		
Offers   O		428915	13/801.610	3/13/2013		2014-0108108	10,235.692	3/19/2019	ISSUED	US
Groupon, Inc.			, ===,525							
425360	Groupon, Inc.									
Computer Program Product For Determining A Provider Return   428571   13/826,333   3/14/2013   Method, Apparatus, And Computer Program Product For Forecasting Demand   428585   13/804,403   3/14/2013   Method, Apparatus, And Computer Program Product For Identifying A Service Need Via A   428581   13/826,464   3/14/2013   Method, Apparatus, And Computer Program Product For Identifying A Service Need Via A   428581   13/826,464   3/14/2013   Method, Apparatus, And Computer Program Product For Lead Assignment   428572   13/826,866   3/14/2013   Method, Apparatus, And Computer Program Product For Lead Assignment   10,346,887   7/9/2019   ISSUED   US   427408   13/841,247   3/15/2013   Presence Detection Based On Crowd Surfing Signal Strength   9,002,375   4/7/2015   ISSUED   US   47/2015   ISSUED   US   47/2015   ISSUED   US   47/2016   47/2015   ISSUED   US   47/2016   47/20		425360	13/826,757	3/14/2013	Method, Apparatus, And		9,330,357	5/3/2016	ISSUED	US
428571   13/826,333   3/14/2013   Method, Apparatus, And Computer Program Product For Forecasting Demand   9,947,022   4/17/2018   ISSUED   US								1		
Computer Program Product For Forecasting Demand	Groupon, Inc.				Determining A Provider Return					
Forecasting Demand   Forecasting Demand   Forecasting Demand   Py947,021   A/17/2018   ISSUED   US		428571	13/826,333	3/14/2013	Method, Apparatus, And		9,947,022	4/17/2018	ISSUED	US
428585   13/804,403   3/14/2013   Method, Apparatus, And Computer Program Product For Identifying A Service Need Via A   10,255,567   4/9/2019   ISSUED   US								1		
Computer Program Product For Identifying A Service Need Via A   10,255,567   4/9/2019   ISSUED   US	Groupon, Inc.					1				
Identifying A Service Need Via A		428585	13/804,403	3/14/2013	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9,947,021	4/17/2018	ISSUED	US
428581   13/826,464   3/14/2013   Method, Apparatus, And Computer Program Product For Lead Assignment   10,255,567   4/9/2019   ISSUED   US	<u>.</u> .							1		
Computer Program Product For Lead Assignment   10,346,887   7/9/2019   ISSUED   US	Groupon, Inc.	1				-			1	
Groupon, Inc.   Lead Assignment   Lead Assignm		428581	13/826,464	3/14/2013			10,255,567	4/9/2019	ISSUED	US
428572   13/826,866   3/14/2013   Method, Apparatus, And Computer Program Product For Calculating A Provider Quality   13/841,247   3/15/2013   Presence Detection Based On Crowd Surfing Signal Strength   9,002,375   4/7/2015   ISSUED   US								1		
Groupon, Inc.  Computer Program Product For Calculating A Provider Quality  427408  13/841,247  3/15/2013  Presence Detection Based On Crowd Surfing Signal Strength  Program Product For Calculating A Provider Quality  Presence Detection Based On Crowd Surfing Signal Strength	Groupon, Inc.	420572	12/026 000	2/14/2012		-	10 246 897	7/0/2010	Iccurn	HC
Groupon, Inc. Calculating A Provider Quality Support S		4285/2	13/826,866	3/14/2013			10,346,887	1/9/2019	ISSUED	US
427408 13/841,247 3/15/2013 Presence Detection Based On Crowd Surfing Signal Strength 9,002,375 4/7/2015 ISSUED US	Groupen Inc							1		
Crowd Surfing Signal Strength	Groupon, inc.	427408	13/8/1 2/7	3/15/2013		1	9 002 375	4/7/2015	ISSUED	LIS
	1	72,700	13,041,247	3,13,2013			3,002,373	7,7,2013	133625	
	Groupon Inc				Sand Salling Signal Sciengell			1		
					1	1	_1	_1		l .

Groupon Inc	430708	13/835,276	3/15/2013	Method And System For Determining Location Of Mobile Device	2013-0260789	9,226,110	12/29/2015	ISSUED	US
Groupon, Inc.	430948	13/842,449	3/15/2013	Generic Message Injection System		9,779,424	10/3/2017	ISSUED	US
Groupon, Inc.	436868	13/838,918	3/15/2013	Deal Allocation Platform		10,115,129	10/30/2018	ISSUED	US
Groupon, Inc.	424022	42/020 444	2/45/2042		2045 0046274	40 447 420	42/4/2040	ICCLIED	LIC.
Groupon, Inc.	431022	13/839,414	3/15/2013	Online Ordering For In-Shop Service	2015-0046271	10,147,130	12/4/2018	ISSUED	US
oroupon, mor	436898	13/838,452	3/15/2013	Inbox Management System	2014-0006139	10,198,742	2/5/2019	ISSUED	US
Groupon, Inc.	430830	13/832,804	3/15/2013	Method For Determining Provider		10,235,696	3/19/2019	ISSUED	US
Groupon, Inc.	428907	13/839,226	3/15/2013	Parameters Including A Provider Margin  Deal Generation Using Point-Of-		10,304,091	5/28/2019	ISSUED	US
Groupon, Inc.	428307	13/839,220	3/13/2013	Sale Systems And Related Methods		10,304,031	3/28/2019	133020	03
	436897	13/838,711	3/15/2013	Cadence Management System For Consumer Promotions		10,325,284	6/18/2019	ISSUED	US
Groupon, Inc.	436876	13/839,360	3/15/2013	Dynamic Promotion Analytics		10,346,870	7/9/2019	ISSUED	US
Groupon, Inc.	436889	13/839,036	3/15/2013	Promotion System For		10,360,580	7/23/2019	ISSUED	US
Groupon, Inc.			,,	Determining And Correcting For Insufficiency Of Promotion Data					
	428895	13/842,726	3/15/2013	Facilitating Consumer Payments And Redemptions Of Deal Offers		10,373,184	8/6/2019	ISSUED	US
Groupon, Inc.	431246	13/842,813	3/15/2013	Facilitating Consumer Payments And Redemptions Of Deal Offers		10,373,186	8/6/2019	ISSUED	US
Groupon, Inc.	430922	13/842,379	3/15/2013	Pull-Type Searching System		10,395,276	8/27/2019	ISSUED	US
Groupon, Inc.									
Groupon Inc	436895	13/838,874	3/15/2013	Reimpression Promotion System		10,430,824	10/1/2019	ISSUED	US
Groupon, Inc.	436887	13/839,499	3/15/2013	Deal Program Life Cycle		10,535,076	1/14/2020	ISSUED	US
Groupon, Inc.	430974	13/841,854	3/15/2013	Method And Apparatus For Return	2014-0114741	10,614,480	4/7/2020	ISSUED	US
Groupon, Inc.	428900	13/833,548	3/15/2013	On Investment Impact Reporting  Generating Promotion Offers And		10,664,861	5/26/2020	ISSUED	US
Groupon, Inc.			, =, ==,	Providing Analytics Data			-,,		
	431610	13/861,874	4/12/2013	Centralized, Scalable, Resource Monitoring System		9,304,663	4/5/2016	ISSUED	US
Groupon, Inc.	432888	13/875,019	5/1/2013	Consumer Device Based Point-Of- Sale	2015-0046276	9,852,409	12/26/2017	ISSUED	US
Groupon, Inc.	428582	13/893,044	5/13/2013	Method, Apparatus, And		9,330,167	5/3/2016	ISSUED	US
Groupon, Inc.				Computer Program Product For Classification And Tagging Of					
Groupon, Inc.	488865	13/903,678	5/28/2013	Managing Merchant Communications	2013-0325705	10,628,880	4/21/2020	ISSUED	us
oapon, mc.	431407	13/908,802	6/3/2013	Dynamic Customized Electronic Message Content Generation		10,044,650	8/7/2018	ISSUED	US
Groupon, Inc.	433462	13/913,887	6/10/2013	Method And Apparatus For		10,192,243	1/29/2019	ISSUED	US
Groupon, Inc.	431762	13/918,650	6/14/2013	Determining Promotion Pricing Parameters  Configurable Relevance Service		9,978,084	5/22/2018	ISSUED	US
Groupon, Inc.	731/02	13/316,630	0/ 14/ 2013	Test Platform		3,376,004	3,22,2010	133020	
	433475	13/922,750	6/20/2013	Method And Apparatus For Promotion Template Generation		10,664,876	5/26/2020	ISSUED	us
Groupon, Inc.	488874	13/926,513	6/25/2013	Customized Deal Generation	2014-0379513	10,275,786	4/30/2019	ISSUED	US
Groupon, Inc.	435246	13/928,011	6/26/2013	Method And Apparatus For		10,417,667	9/17/2019	ISSUED	US
Groupon, Inc.				Creating Web Content And Identifying Advertisements For					

	433362	13/929,253	6/27/2013	Fine Print Builder		10,255,620	4/9/2019	ISSUED	US
Groupon, Inc.									
	434293	13/930,833	6/28/2013	Systems And Methods For		10,032,182	7/24/2018	ISSUED	US
L.				Providing Promotion Sharing					
Groupon, Inc.	122265	42/020 077	c /20 /2012	Among Consumers		40 225 205	C (4 0 (204 0	ICCLUED	116
	433365	13/929,977	6/28/2013	Predictive Recommendation System		10,325,285	6/18/2019	ISSUED	US
Groupon, Inc.				System					
огопроп, п.с.	435213	13/930,532	6/28/2013	Method And Apparatus For		10,373,210	8/6/2019	ISSUED	US
	133213	13,330,332	0,20,2013	Generating An Electronic		10,575,210	0,0,2013	133025	
Groupon, Inc.				Communication					
	432001	13/930,519	6/28/2013	Method And Apparatus For		10,387,902	8/20/2019	ISSUED	US
				Generating An Electronic					
Groupon, Inc.				Communication					
	435212	13/930,527	6/28/2013	Method And Apparatus For		10,423,977	9/24/2019	ISSUED	US
				Generating An Electronic					
Groupon, Inc.				Communication					
	488871	13/932,224	7/1/2013	Ranking Interactions Between	2013-0297623	8,898,579	11/25/2014	ISSUED	US
				Users On The Internet					
Groupon, Inc.	100000	10/055 107	0/40/0040			10 100 100	11/10/0010	.ccee	
	493383	13/966,187	8/13/2013	Incentivizing Sharing In Social		10,482,487	11/19/2019	ISSUED	US
Craunan Inc				Networks					
Groupon, Inc.	436936	13/969,008	8/16/2013	Method, Apparatus, And		9,589,184	3/7/2017	ISSUED	US
	430930	13/303,008	8/10/2013	Computer Program Product For		3,363,164	3///201/	1330ED	03
Groupon, Inc.				Classification Of Documents			1	1	
	437743	14/038,644	9/26/2013	Multi-Term Query Subsumption		9,411,905	8/9/2016	ISSUED	US
	1		1,,,	For Document Classification			[-,-,		
Groupon, Inc.	1						1	1	
	437740	14/038,661	9/26/2013	Dynamic Clustering For Streaming		9,465,857	10/11/2016	ISSUED	US
	1			Data			1	1	
Groupon, Inc.									
	436620	14/038,641	9/26/2013	Automated Deal Guide User		10,229,432	3/12/2019	ISSUED	US
				Interface					
Groupon, Inc.									
	436611	14/038,610	9/26/2013	Automated Deal Guide		10,475,063	11/12/2019	ISSUED	US
L.				Optimization					
Groupon, Inc.	125515	14/020 520	0/25/2012	Automoted Beel Cuide Street		10 475 002	11/12/2010	ICCLUED	Lie
	436616	14/038,629	9/26/2013	Automated Deal Guide Structure Identification		10,475,083	11/12/2019	ISSUED	US
Groupon, Inc.				lidentification					
стоироп, пс.	437040	14/039,473	9/27/2013	Method, Apparatus, And		9,563,900	2/7/2017	ISSUED	US
	137010	11,000,170	3,27,2013	Computer Program Product For		3,303,300	2,7,2017	133025	03
Groupon, Inc.				Consumer Tracking					
	437724	14/040,331	9/27/2013	Systems And Methods For	2015-0095133	9,928,493	3/27/2018	ISSUED	US
			' '	Providing Customer Facing Point-		' '			
Groupon, Inc.				Of-Sale Interfaces					
	436927	14/039,842	9/27/2013	Method, Apparatus, And		9,996,859	6/12/2018	ISSUED	US
				Computer Readable Medium For					
Groupon, Inc.				Providing A Self-Service Interface					
	437170	14/038,949	9/27/2013	Method, Apparatus, And		10,304,077	5/28/2019	ISSUED	US
L .				Computer Program Product For					
Groupon, Inc.	105510	44/044 000	0.100.100.10	Providing Real Time Incentives		10.010.005	= 10 10 0 1 0	.cc.ien	
	436610	14/041,890	9/30/2013	Automated Approval Of Generated Promotions		10,346,885	7/9/2019	ISSUED	US
Groupon, Inc.	1			Calcineta Fromotions			1	1	
Croupon, nic.	434231	14/052,542	10/11/2013	System For Marketing Campaign	2014-0195322	10,096,039	10/9/2018	ISSUED	US
	1.5.1251	, 552,542		Specification And Secure Digital			25, 5, 2516		1
Groupon, Inc.				Coupon Redemption			1	1	
	438965	14/088,248	11/22/2013	Automated Dynamic Data Quality		9,390,112	7/12/2016	ISSUED	US
				Assessment			1	1	
Groupon, Inc.					<u></u>				
	439983	14/088,247	11/22/2013	Automated Adaptive Data Analysis		9,600,776	3/21/2017	ISSUED	US
	1			Using Dynamic Data Quality			1	1	
Groupon, Inc.				Assessment					
	439553	14/104,434	12/12/2013	System, Method, Apparatus, And		10,360,159	7/23/2019	ISSUED	US
	1			Computer Program Product For			1	1	
Groupon, Inc.	1000:-	4.446	40/40/	Providing A Cache Mechanism	-	10.145 :-:	40/4/	Lague -	116
	438915	14/106,203	12/13/2013	Method, Apparatus, And		10,147,104	12/4/2018	ISSUED	US
Graupan !	1			Computer Program Product For Providing A Search Feedback			1	1	
Groupon, Inc.	438914	14/132,850	12/18/2013	Exporter	-	9,135,235	9/15/2015	ISSUED	US
	420214	14/132,830	12/10/2013	Laportei		3,133,235	3/ 13/2012	ISSUED	03
Groupon, Inc.	1						1	1	
отопроп, пк.	441558	14/189,983	2/25/2014	Promotion Redemption And	+	9,916,579	3/13/2018	ISSUED	US
	11333	1.7105,505	2,23,2014	Payment Gateway		5,510,575	5, 15, 2010	.55525	
Groupon, Inc.				.,,			1	1	
, , , , , , , , , , , , , , , , , , , ,	443664	14/207,444	3/12/2014	Groupon App Distribution		10,269,043	4/23/2019	ISSUED	US
			,			,, ,	1 -, -,		
Craupan !							1	1	
Groupon, Inc.									

Groupon, Inc.	441687	14/211,840	3/14/2014	System For Providing Impressions Based On Consumer Preferences For Future Promotions		10,223,709	3/5/2019	ISSUED	US
Groupon, mc.	443179	14/230,980	3/31/2014	Learning User Interface	2015-0213357	9,582,145	2/28/2017	ISSUED	US
Groupon, Inc.	443180	14/230,996	3/31/2014	Learning User Interface Having Dynamic Icons With A First And	2015-0212689	9,665,240	5/30/2017	ISSUED	US
Groupon, Inc.	443181	14/231,015	3/31/2014	Second Visual Bias Learning User Interface	2015-0213547	9,804,737	10/31/2017	ISSUED	US
Groupon, Inc.									
	443178	14/230,970	3/31/2014	Learning User Interface	2015-0213545	10,001,902	6/19/2018	ISSUED	US
Groupon, Inc.	443470	14/231,385	3/31/2014	Predictive Recommendation System Using Price Boosting		10,210,536	2/19/2019	ISSUED	US
Groupon, Inc.	444348	14/231,362	3/31/2014	Predictive Recommendation System Using Absolute Relevance		10,210,548	2/19/2019	ISSUED	US
Groupon, Inc.	444349	14/231,222	3/31/2014	Predictive Recommendation		10,210,547	2/19/2019	ISSUED	US
Groupon, Inc.				System Using Contextual Relevance					
C	446351	14/269,765	5/5/2014	Determining Locations Of Interest Based On User Visits	2015-0106206	10,546,323	1/28/2020	ISSUED	US
Groupon, Inc.	441657	14/279,933	5/16/2014	Obfuscation of Email Addresses		9,756,000	9/5/2017	ISSUED	US
Groupon, Inc.	459204	14/283,151	5/20/2014	Visitor Detection Unit And		9,953,493	4/24/2018	ISSUED	US
Groupon, Inc.	AAECC1	14/212 501	C/22/2014	Identification System		10 228 820	2/12/2010	ICCLIED	Lie
Groupon, Inc.	445661	14/312,591	6/23/2014	Interactive Personalized Graphical Feedback Overlay		10,228,829	3/12/2019	ISSUED	us
	446391	14/312,588	6/23/2014	Seamless Promotion Redemption		10,552,868	2/4/2020	ISSUED	US
Groupon, Inc.	446895	14/316,253	6/26/2014	Method, Apparatus, And Computer Program Product For		9,940,635	4/10/2018	ISSUED	US
Groupon, Inc.	443332	14/316,228	6/26/2014	Calculating A Supply Based On Method, Apparatus, And		9,947,024	4/17/2018	ISSUED	US
Groupon, Inc.				Computer Program Product For Classifying User Search Data					
Groupon, Inc.	446894	14/316,245	6/26/2014	Method, Apparatus, And Computer Program Product For Forecasting Demand Using Real		10,032,180	7/24/2018	ISSUED	US
	446941	14/316,270	6/26/2014	Method, Apparatus, And Computer Program Product For		10,108,974	10/23/2018	ISSUED	US
Groupon, Inc.	446896	14/316,264	6/26/2014	Providing A Dashboard  Method, Apparatus, And Computer Program Product For		10,242,373	3/26/2019	ISSUED	US
Groupon, Inc.	445662	14/316,298	6/26/2014	Setting A Benchmark Conversion Method, Apparatus, System, And		10,269,041	4/23/2019	ISSUED	US
Groupon, Inc.				Computer Program Product For Selecting An Image Associated					
Groupon, Inc.	448152	14/453,179	8/6/2014	Method and Apparatus for Generating An Electronic Communication		9,684,910	6/20/2017	ISSUED	US
	448097	14/454,675	8/7/2014	Systems And Methods For Providing Customer Facing Point-	2015-0095134	10,163,089	12/25/2018	ISSUED	US
Groupon, Inc.	448094	14/453,911	8/7/2014	Of-Sale Interfaces Automated Deal Guide		10,546,316	1/28/2020	ISSUED	US
Groupon, Inc.	448098	14/454,673	8/7/2014	Optimization  Communication Beacon Based		10,643,243	5/5/2020	ISSUED	US
Groupon, Inc.				Promotions For Mobile Devices					
Groupon, Inc.	451699	14/479,267	9/5/2014	Method And Apparatus For Providing Promotion Recommendations		10,163,129	12/25/2018	ISSUED	US
	449913	14/494,053	9/23/2014	Method, Apparatus, And Computer Program Product For		9,619,817	4/11/2017	ISSUED	US
Groupon, Inc.	449909	14/495,747	9/24/2014	Auto-Replenishing An Inventory Of Systems And Methods For Providing Multiple Items To		10,102,562	10/16/2018	ISSUED	US
Groupon, Inc.	449911	14/495,750	9/24/2014	Consumers Systems And Methods For		10,438,188	10/8/2019	ISSUED	US
Groupon, Inc.				Providing Shared Promotion Redemptions					

	449914	14/495,790	9/24/2014	Systems And Methods For Providing Streamlined Multiple		10,540,686	1/21/2020	ISSUED	US
Groupon, Inc.	440013	14/405.754	0/24/2014	Item Transactions		10.630.015	4/24/2020	ICCLIED	LIC
Groupon, Inc.	449912	14/495,754	9/24/2014	Systems And Methods For Programatically Grouping Consumers		10,628,815	4/21/2020	ISSUED	US
2,00,000	488872	14/551,843	11/24/2014	Ranking Interactions Between Users On The Internet	2015-0154309	9,323,858	4/26/2016	ISSUED	US
Groupon, Inc.	4								
Groupon, Inc.	454515	14/573,299	12/17/2014	Method, Apparatus, And Computer Program Product For Automated Approval of A		10,417,659	9/17/2019	ISSUED	US
oroupon, mor	454531	14/575,396	12/18/2014	System, Apparatus, And Method		9,141,593	9/22/2015	ISSUED	US
Groupon, Inc.				For Page Composition					
Casuras Inc	454314	14/578,205	12/19/2014	Processing Dynamic Data Within An Adaptive Oracle-Trained Learning System Using Curated		10,614,373	4/7/2020	ISSUED	US
Groupon, Inc.	454308	14/578,200	12/19/2014	Automatic Selection Of High Quality Training Data Using An		10,657,457	5/19/2020	ISSUED	US
Groupon, Inc.				Adaptive Oracle-Trained Learning					
Graupan Inc	455124	14/588,196	12/31/2014	Method And Apparatus For Implementing A Search Index Generator		10,657,177	5/19/2020	ISSUED	US
Groupon, Inc.	458300	14/622,002	2/13/2015	Method And Apparatus For Payment, Return On Investment,	2015-0324839	10,558,991	2/11/2020	ISSUED	US
Groupon, Inc.				And Impact Reporting					
Groupon, Inc.	457014	14/626,363	2/19/2015	Method And System For Facilitating Consumer Interactions for Performing Purchase	2015-0242941	10,115,105	10/30/2018	ISSUED	US
	457018	14/626,395	2/19/2015	Method And System For Adjusting Item Relevance Based On	2015-0242942	10,162,513	12/25/2018	ISSUED	US
Groupon, Inc.	457022	14/626,373	2/19/2015	Consumer Interactions  Method And System For	2015-0242902	10,528,250	1/7/2020	ISSUED	US
Groupon, Inc.	437022	14/020,373	2/13/2013	Facilitating Consumer Interactions With Promotions	2013-0242302	10,328,230	1///2020	1330ED	03
C	457015	14/626,370	2/19/2015	Method And System For A Predefined Suite Of Consumer Interactions For Initiating	2015-0242937	10,628,027	4/21/2020	ISSUED	US
Groupon, Inc.	457017	14/629,788	2/24/2015	Method, Apparatus, And		10,650,436	5/12/2020	ISSUED	US
Groupon, Inc.				Computer Readable Medium For Group Gifting In A Randomized					
	457447	14/638,703	3/4/2015	Presence Detection Based On Crowd Surfing Signal Strength	2015-0245177	9,154,916	10/6/2015	ISSUED	US
Groupon, Inc.	457046	14/671,878	3/27/2015	Faranskin - Daniel III.		10,558,925	2/11/2020	ISSUED	US
Groupon, Inc.	437040	14/0/1,8/8	3/2//2013	Forecasting Demand Using Hierarchical Temporal Memory		10,538,925	2/11/2020	1330ED	03
C	460974	14/693,721	4/22/2015	Generating Optimized In-Channel And Cross-Channel Promotion		10,699,299	6/30/2020	ISSUED	US
Groupon, Inc.	460972	14/709,296	5/11/2015	Recommendations Using Free Real-Time Predictive		10,497,025	12/3/2019	ISSUED	US
Groupon, Inc.	130372	1,7765,250	3,11,2013	Recommendation System Using Per-Set Optimization		10, 137,023	12, 3, 2013	155525	
	463001	14/727,852	6/1/2015	Method And System For Programmatic Analysis Of		9,317,566	4/19/2016	ISSUED	US
Groupon, Inc.	462793	14/727,591	6/1/2015	Consumer Reviews  Graph-Based Compression of Data		9,355,114	5/31/2016	ISSUED	US
Groupon, Inc.				Records					
-	464555	14/748,983	6/24/2015	Method And System For Enabling The Creation And Maintenance Of	2016-0088100	9,380,120	6/28/2016	ISSUED	US
Groupon, Inc.	458643	14/749,348	6/24/2015	Proximity-Related User Groups  Mobile Visual Locator		10,373,204	8/6/2019	ISSUED	US
Groupon, Inc.	460901	14/755 505	6/20/2015	Mothed And Apparatus 5		10 102 209	10/16/2019	ICCLIED	US
Groupon, Inc.	460801	14/755,585	6/30/2015	Method And Apparatus For Identifying Related Records		10,102,308	10/16/2018	ISSUED	
Groupon, Inc.	462945	14/788,488	6/30/2015	Systems, Apparatus, And Methods Of Programmatically Determining Unique Contacts Based On		10,410,225	9/10/2019	ISSUED	US
	462997	14/788,479	6/30/2015	Systems and Methods For Providing Dimensional		10,438,229	10/8/2019	ISSUED	US
Groupon, Inc.	465108	14/794,211	7/8/2015	Promotional Offers  Dynamic Awarding Of Prizes In Chance-Based Contests	2015-0310701	9,846,988	12/19/2017	ISSUED	US
Groupon, Inc.	434223	14/803,993	7/20/2015	Verification Of Redemption Of An	2016-0048863	9,824,371	11/21/2017	ISSUED	US
Groupon, Inc.		,,	,,	Electronic Offer					
		1		ı	•				1

	466931	14/808,918	7/24/2015	Discovery Of New Business Openings Using Web Content		9,773,252	9/26/2017	ISSUED	US
Groupon, Inc.				Analysis					
	466396	14/809,777	7/27/2015	System, Apparatus, And Method For Page Composition		10,241,981	3/26/2019	ISSUED	US
Groupon, Inc.	463003	14/814,154	7/30/2015	Predictive Recommendation System Using Tiered Feature Data		10,318,984	6/11/2019	ISSUED	US
Groupon, Inc.				-,					
_	464071	14/817,005	8/3/2015	Dynamically Optimizing A Data Set Distribution		10,650,326	5/12/2020	ISSUED	US
Groupon, Inc.	467284	14/820,722	8/7/2015	Exporter	2016-0071142	9,646,321	5/9/2017	ISSUED	US
Groupon, Inc.		_ ,,					, , , , , , ,		
	463648	14/823,449	8/11/2015	Method, Apparatus, And Computer Program Product For	2016-0050249	10,244,025	3/26/2019	ISSUED	us
Groupon, Inc.	466722	14/824,929	8/12/2015	Controlling Content Distribution  Enforcing Diversity In Ranked Relevance Results Returned From		10,459,927	10/29/2019	ISSUED	US
Groupon, Inc.				A Universal Relevance Service					
Graupan Inc	466720	14/824,912	8/12/2015	Universal Relevance Service Framework		10,572,925	2/25/2020	ISSUED	us
Groupon, Inc.	464061	14/832,684	8/21/2015	Computer System And Computer- Executed Method For Inventory		10,157,392	12/18/2018	ISSUED	US
Groupon, Inc.	469377	14/846,288	9/4/2015	Valuation Presence Detection Based On	2016-0198302	9,693,193	6/27/2017	ISSUED	US
Groupon, Inc.				Crowd Surfing Signal Strength					
Groupon, Inc.	464077	14/865,907	9/25/2015	Method, Apparatus, And Computer Program Product For Providing A User Platform For A		10,657,570	5/19/2020	ISSUED	US
	464080	14/869,536	9/29/2015	System And Method For Generating Purchase		10,713,702	7/14/2020	ISSUED	US
Groupon, Inc.	470203	14/874,870	10/5/2015	Recommendations Based On  Method, Apparatus, And Computer Program Product For	2016-0098406	9,710,521	7/18/2017	ISSUED	US
Groupon, Inc.	470506	14/881,723	10/13/2015	Ranking Content Channels  Method And Apparatus For		10,546,269	1/28/2020	ISSUED	US
				Managing Item Inventories					
Groupon, Inc.	464098	14/918,362	10/20/2015	Curating Training Data For Incremental Re-Training Of A		10,339,468	7/2/2019	ISSUED	US
Groupon, Inc.	472228	14/949,750	11/23/2015	Predictive Model  Method And System For		9,628,957	4/18/2017	ISSUED	US
Groupon, Inc.			10 10 10 10	Determining Location Of Mobile Device					
Groupon, Inc.	472096	14/958,423	12/3/2015	Email Suggestor System	2016-0162890	9,606,982	3/28/2017	ISSUED	US
droupon, me.	473043	14/959,401	12/4/2015	Implicitly Associating Metadata Using User Behavior		9,953,342	4/24/2018	ISSUED	US
Groupon, Inc.									
Graupan Inc	464097	14/968,056	12/14/2015	Method, Apparatus, And Computer Program Product For Programmatically Updating Data		10,607,169	3/31/2020	ISSUED	us
Groupon, Inc.	486440	14/976,664	12/21/2015	Electronically Referring A Contact Without Divulging Contact Data	2016-0182431	10,116,612	10/30/2018	ISSUED	US
Groupon, Inc.	464096	14/980,667	12/28/2015	Location Based Discovery Of Real-		9,699,610	7/4/2017	ISSUED	US
Groupon, Inc.	1.5,655	1.,555,667	22,20,2013	Time Merchant Device Activity		5,555,010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.55525	
	464090	14/980,689	12/28/2015	Prescient And Adaptive Point-Of- Sale Systems		10,592,882	3/17/2020	ISSUED	US
Groupon, Inc.	474373	15/051,051	2/23/2016	Method, Apparatus, And	2016-0314201	10,387,470	8/20/2019	ISSUED	US
Groupon, Inc.	474281	15/051,165	2/23/2016	Computer Program Product For Classification And Tagging Of Method, Apparatus, And	2016-0314399	10,558,922	2/11/2020	ISSUED	US
Groupon, Inc.	4/4201	13/031,103	2/23/2016	Computer Program Product For Determining A Provider Return	2010-0214233	110,330,322	2/11/2020	ISSUED	
	476006	15/058,535	3/2/2016	Centralized, Scalable, Resource Monitoring System	2016-0285731	9,692,680	6/27/2017	ISSUED	US
Groupon, Inc.	477182	15/073,486	3/17/2016	Method And System For Programmatic Analysis Of	2016-0275573	9,741,058	8/22/2017	ISSUED	US
Groupon, Inc.	475802	15/083,422	3/29/2016	Consumer Reviews  Apparatus And Method For Enhanced Message Targeting		10,438,216	10/8/2019	ISSUED	US
Groupon, Inc.									

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	478862	15/144,977	5/3/2016	Graph-Based Compression Of Data Records	2017-0032409	9,619,823	4/11/2017	ISSUED	US
Groupon, Inc.									
	478863	15/160,142	5/20/2016	Rewards Program		10,535,075	1/14/2020	ISSUED	US
Groupon, Inc.	479686	15/161,495	5/23/2016	Automated Dynamic Data Quality	2017-0024427	9,703,823	7/11/2017	ISSUED	US
C I				Assessment					
Groupon, Inc.	476700	15/168,983	5/31/2016	Method And System For Enabling	2016-0353244	9,769,611	9/19/2017	ISSUED	US
Groupon, Inc.	470700	13/100,363	3/31/2010	The Creation And Maintenance Of Temporary User Groups	1	3,703,011	3/13/2017	133020	03
	476638	15/168,978	5/31/2016	System, Method, And Computer	2017-0052967	10,324,996	6/18/2019	ISSUED	US
Groupon, Inc.				Program Product For Automated Discovery, Curation and Editing Of					
	480207	15/172,032	6/2/2016	Peer-To-Peer Payment Processing	2016-0275476	10,325,253	6/18/2019	ISSUED	US
Groupon, Inc.									
	475687	15/174,164	6/6/2016	Apparatus And Method For Utilizing Immediate Gratification		10,521,815	12/31/2019	ISSUED	US
Groupon, Inc.	475.000	45 (400 070	c laa laas c	Promotions		10.000.454	F /2C /2020	ICCLIED	LIC
C	475689	15/190,078	6/22/2016	Apparatus, System, And Method For Providing Simultaneous Delivery Of Output		10,666,454	5/26/2020	ISSUED	us
Groupon, Inc.	475690	15/191,344	6/23/2016	Mobile Proximity Based Messages		10,034,129	7/24/2018	ISSUED	US
Groupon, Inc.									
	475797	15/197,202	6/29/2016	Wearable Device That Is		10,126,837	11/13/2018	ISSUED	US
Groupon, Inc.				Automatically Configurable Between Wearer Facing And					
	481192	15/198,461	6/30/2016	Multi-Term Query Subsumption	2017-0031927	9,652,527	5/16/2017	ISSUED	US
Groupon, Inc.				For Document Classification					
	475795	15/197,931	6/30/2016	Method, Apparatus, And		10,416,875	9/17/2019	ISSUED	US
Groupon, Inc.				Computer Program Product For Facilitating The Playback Of					
	475796	15/199,035	6/30/2016	Method, Apparatus, And		10,672,020	6/2/2020	ISSUED	US
Groupon, Inc.				Computer Program Product For Offering And Processing					
	484329	15/259,630	9/8/2016	Dynamic Clustering For Streaming Data	2017-0124178	9,852,212	12/26/2017	ISSUED	US
Groupon, Inc.				Data					
	482998	15/280,167	9/29/2016	System And Method For Notification Transmission And		10,206,079	2/12/2019	ISSUED	US
Groupon, Inc.	482997	15/200 227	0/20/2016	Confirmation Management		10.200.522	4/22/2010	ISSUED	US
Groupon, Inc.	482997	15/280,237	9/29/2016	System And Method For Error Detection And Monitoring Of Object-Asset Pairs		10,268,533	4/23/2019	ISSUED	US
or outport, mor	482963	15/281,024	9/29/2016	Interactive Virtual Reality System		10,373,383	8/6/2019	ISSUED	US
Groupon, Inc.									
Groupon, me.	483004	15/280,246	9/29/2016	Apparatus And Method For Data		10,409,792	9/10/2019	ISSUED	US
Groupon, Inc.				Object Generation And Control					
Groupon, mei	482969	15/281,517	9/30/2016	Optical Receipt Processing		10,229,314	3/12/2019	ISSUED	US
Groupon, Inc.									
	483000	15/287,413	10/6/2016	Method And Apparatus For		10,699,332	6/30/2020	ISSUED	US
Groupon, Inc.				Facilitating Meta Search Proxy Bidding					
1	486579	15/288,540	10/7/2016	System And Method For Providing	2017-0139880	10,114,803	10/30/2018	ISSUED	US
Groupon, Inc.			<u> </u>	Content To Users Based On Interactions By Similar Other					
	483271	15/332,921	10/24/2016	Offline Location-Based Consumer Metrics Using Online Signals	2017-0140419	10,049,383	8/14/2018	ISSUED	US
Groupon, Inc.	105	48 /	10/5-7-			40.5	- In t	ingi :	110
_	489834	15/387,858	12/22/2016	Learning User Interface	2017-0169361	10,282,053	5/7/2019	ISSUED	US
Groupon, Inc.	489571	15/389,749	12/23/2016	Method, Apparatus, And	2017-0213226	10,068,240	9/4/2018	ISSUED	US
Groupon, Inc.	103371	12,333,743	12,25,2010	Computer Program Product For Consumer Tracking	231, 3213220	10,000,240	3, 1,2010	133020	
,,	492912	15/427,908	2/8/2017	Automated Adaptive Data Analysis	2017-0372228	10,262,277	4/16/2019	ISSUED	US
Groupon, Inc.				Using Dynamic Data Quality Assessment					
	493564	15/439,985	2/23/2017	Facilitating User Interactions	2018-0041876	10,219,119	2/26/2019	ISSUED	US
Groupon, Inc.				Based On Proximity					
	493139	15/439,993	2/23/2017	Method, Apparatus, And Computer Program Product For	2017-0236141	10,410,233	9/10/2019	ISSUED	US
Groupon, Inc.				Auto-Replenishing An Inventory Of					
	•	•	•			•	•	•	

69.0257   1.444_585   277_2017   From Issage program   2017_62777   2.546_672   1.747_2018   50.000   1.547_	Grouper, Inc.										
15485.500   2777.007	May		491535	15/443,556	2/27/2017	Email Suggestor System	2017-0337178	10,146,766	12/4/2018	ISSUED	US
15485.500   2777.007	May										
Composite Program Products For   Composite Program P	Company, No. 99209 15/492,89 27/2017 Organization of Journal of Program Fielders For Control, No. 99472 15/492,89 27/2017 Description of Control of Contro	Groupon, Inc.									
Groupon, Inc.   494208   34/48,487   26/2017   Complete Section of Total Control	Composition		483272	15/443,550	2/27/2017	1 1	2017-0228588	10,339,375	7/2/2019	ISSUED	US
Marcages   Inc.	2016-00000, Pr.   2016-00000   21/409,087   21/409,087   21/409,097	_									
Peaced   P	Pacced   P	Groupon, Inc.	40.4200	45 (440 607	2/2/2017		2040 0025204	40.002.000	0 /20 /204 0	ICCLIED	LIE
Grosspon, Inc.   George   Ge	Company, No.		494208	15/449,687	3/3/201/	·	2018-0025381	10,062,089	8/28/2018	ISSUED	US
15/42/19	Company No.   69972   15/961,99   37/2017   Newbork and Systems For Determining control Mobile Device   15/961,792   3312017   Newbork and Systems For Security   15/961,199   3312017   Newbork and Systems For Security   15/961,199   3312017   Newbork and Systems For Security   15/961,199   15/961,180	Graupan Inc				Records					
Description	Determine   Congroup, Inc.   Congroup,	этопроп, піс.	494375	15/452 193	3/7/2017	Method And System For	2017-0180941	10 034 139	7/24/2018	ISSUED	LIS
Georgeon, Inc.   Memory   Me	Consequent   Medical Service		131373	13, 132,133	3,7,2017		2017 0100341	10,054,155	7,21,2010	133022	
Security	Geograph, Inc.   Geog	Groupon, Inc.									
Greggon, Inc.  98/9722 15/98,188 4/12/2017 Facilitating Online Transactions 2018-1088/893 10,447,473 11/1/2020 ISSUED US  Greggon, Inc.  98/9703 15/588,246 5/8/2017 Individed Sourchore 2018-1088/893 10,447,473 11/1/2020 ISSUED US  Greggon, Inc.  98/9703 15/588,2479 5/18/2017 Verification of Redengtion Of An Decreasing Control of An De	Grouppen, Inc.		494072	15/476,792	3/31/2017	Methods And Systems For		10,687,167	6/16/2020	ISSUED	US
Groupen, Inc.   98712   13/486.188   412/2017   Facilitating Online Transactions   2018-0088983   10.067.671   11/5/2019   SSUED   US	Greupon, Inc.  698702 15/589,246 3/8/2017 Credefied Secretors 2018-0089714 13,648,371 6/16/2020 ISSUED US  Groupon, Inc.  698703 15/589,246 3/8/2017 Credefied Secretors 2018-0089714 13,648,371 6/16/2020 ISSUED US  Groupon, Inc.  698704 13/598,778 3/8/2017 Verification Of Redemation Of An 2018-0089714 13,102,589 10/16/2018 ISSUED US  Groupon, Inc.  698705 13/598,778 3/8/2017 Verification Of Redemation Of An 2018-0089714 13,102,589 10/16/2018 ISSUED US  Groupon, Inc.  698706 13/598,778 3/8/2017 Verification Of Redemation Of An 2018-0047044 13,102,589 10/16/2018 ISSUED US  Groupon, Inc.  698707 13/6/8/778 3/8/2017 Credefied Secretor Based Discovery Of Real- Machinery Of Research Education Secretor S										
Groupon, Inc.  679010 15/588,746 5/8/2017 Crebedded Storefront 2018-C089714 10,685,771 6/16/2020 ISSUED US  6704pon, Inc.  698590 15/598,879 5/18/2017 Verification Of Redemption Of Ap. 2018-C089714 10,102,589 10/16/2018 ISSUED US  6704pon, Inc.  699545 15/598,774 5/18/2017 Persone Detection Based On Crowd Surfing Signal Strength  6704pon, Inc.  699545 15/598,774 5/18/2017 Cretariated, Scalable, Reduce Company of Part of Crowd Surfing Signal Strength  6704pon, Inc.  699154 15/604,698 5/26/2017 Location Based Discovery Of Real-  6704pon, Inc.  6704pon, Inc.	Frospon, Inc.  477903 15/589,246 5/8/2017 Embedded Storeffrort  477903 15/589,246 5/8/2017 Embedded Storeffrort  2018-0099714 10,685,372 6/16/2020 159,8ED US  670spon, Inc.  498590 13/598,879 5/18/2017 Personal Database December of Part Office Storemon, Inc.  498495 13/598,774 3/18/2017 Presence Database Do Orout Strille Storemon, Office Orout Strille Storemon, Office Orout Strille Storemon, Inc.  497325 15/606,608 5/26/2017 Presence Database Do Orout Strille Storemon, Office Orout Strille Storemon, Inc.  497325 15/606,608 5/26/2017 Presence Database Do Orout Strille Storemon, Inc.  497325 15/606,608 5/26/2017 Presence Database Do Orout Strille Storemon, Inc.  497325 15/606,608 5/26/2017 Presence Database Do Orout Strille Storemon, Inc.  497325 15/606,608 5/26/2017 Presence Database Do Orout Strille Storemon, Inc.  497326 15/608,728 6/12/2017 Presence Database Do Orout Strille Storemon, Inc.  497327 15/608,608 5/26/2017 Presence Database Do Orout Strille Strille Database Do Orout Strille Strille Database Do Orout Strille Strille Database Do Orout Strille Database	Groupon, Inc.									
Section   Sect	Groupon, Inc.  679303 25/589,246 54/2017 Crebedded Soverfront 2018-0087714 10,685,371 6/16/2020 05UED US  Groupon, Inc.  698390 15/598,879 5/18/2017 Verification of Redemption Of An 2018-0077044 10,102,599 10/36/2018 05UED US  Groupon, Inc.  698395 25/598,774 5/18/2017 Personne Detection Board Dr. Crowd Surfine Signal Strongth  699395 25/598,774 5/18/2017 Personne Detection Board Dr. Crowd Surfine Signal Strongth  699396 15/69,879 15/69,879 Crowd Surfine Signal Strongth  699396 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699397 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699397 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699398 15/693,986 6/12/2017 Location Board Dr. Crowd Surfine Signal Strongth  699399 15/693,986 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/693,986 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/693,786 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,605 7/33/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Strongth Dr. Crowd Stron		496712	15/486,188	4/12/2017	Facilitating Online Transactions	2018-0068363	10,467,671	11/5/2019	ISSUED	US
Section   Sect	Groupon, Inc.  679303 25/589,246 54/2017 Crebedded Soverfront 2018-0087714 10,685,371 6/16/2020 05UED US  Groupon, Inc.  698390 15/598,879 5/18/2017 Verification of Redemption Of An 2018-0077044 10,102,599 10/36/2018 05UED US  Groupon, Inc.  698395 25/598,774 5/18/2017 Personne Detection Board Dr. Crowd Surfine Signal Strongth  699395 25/598,774 5/18/2017 Personne Detection Board Dr. Crowd Surfine Signal Strongth  699396 15/69,879 15/69,879 Crowd Surfine Signal Strongth  699396 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699397 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699397 15/693,918 6/72107 Location Board Dr. Crowd Surfine Signal Strongth  699398 15/693,986 6/12/2017 Location Board Dr. Crowd Surfine Signal Strongth  699399 15/693,986 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/693,986 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/693,786 6/12/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,605 7/33/2017 Automatical Department Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Surfine Signal Strongth  699399 15/694,783 6/13/2017 Dr. Crowd Strongth Dr. Crowd Stron										
Grouppon, Inc.  198590   15/598,779   5/18/2017   Verification Of Redemption Of An 2018-0047044   10,102,599   10/16/2018   ISSUED   US Crosspon, Inc.  198244   15/598,774   5/18/2017   Presence Detection Based On Cross Surfrie Signal Storegth   20,100,817   2/5/2019   ISSUED   US Crosspon, Inc.  197525   15/606,608   5/26/2017   Contact Surfrie Signal Storegth   20,100,0172,26   20,200,817   2/5/2019   ISSUED   US Crosspon, Inc.  1992154   15/613,918   6/5/2017   Location Based Discovery Of Real-Control Surfrie Signal Storegth   20,100,019422   10,181,992   1/15/2019   ISSUED   US Crosspon, Inc.  1992159   15/613,786   6/12/2017   Automated Dynamic Data Quality Animal Control Surfrie Signal Storegth   20,100,016   7/23/2019   ISSUED   US Crosspon, Inc.  1992190   15/623,713   6/12/2017   Automated Dynamic Data Quality Animal Control Surfrie Signal Storegth   20,100,016   7/23/2019   ISSUED   US Crosspon, Inc.  1992191   15/623,713   6/12/2017   Automated Dynamic Data Quality Animal Control Control Surfrie Signal Storegth   20,100,016   7/23/2019   ISSUED   US Crosspon, Inc.  1992192   15/623,713   6/12/2017   Automated Dynamic Data Quality Animal Control Control Control Surfrie Signal Storegth   20,100,016   7/23/2019   ISSUED   US Crosspon, Inc.  1992193   15/664,605   7/35/2017   Detection Of Frant Addisenses 2018-0107927   10,142,784   11/27/2018   ISSUED   US Crosspon, Inc.  1992194   15/668,724   4/25/2017   Detection Of Frant Addisenses 2018-0107927   10,142,784   11/27/2018   ISSUED   US Crosspon, Inc.  1992195   15/615,789   11/16/2017   Detection Of Frant Addisenses 2018-0107927   10,142,784   11/27/2018   ISSUED   US Crosspon, Inc.  1992196   15/615,789   11/16/2017   Detection Repetition System For Embline Control System For Embline C	Groupen, Inc.  498590 15/598,8779 5/18/2017 Verification Of Redemption Of An 2018-0017014 10,1025,339 10/16/2018 5SUED US Groupen, Inc.  4943915 13/938,774 5/18/2017 Produces Detection Based On Cook Surfries Speak Strength Groupen, Inc.  497525 13/666,688 5/16/2017 Certainties Calable, Recurse 2018-0109432 10,181,992 1/15/2019 SSUED US Groupen, Inc.  497525 13/666,688 5/16/2017 Certainties Calable, Recurse 2018-0109432 10,181,992 1/15/2019 SSUED US Groupen, Inc.  497525 13/666,688 5/16/2017 Certainties Calable, Recurse 2018-0109432 10,181,992 1/15/2019 SSUED US Groupen, Inc.  500320 15/613,788 6/12/2017 Automated Discovery Of Realt Calable, Recurse 2018-0109432 10,181,992 1/15/2019 SSUED US Groupen, Inc.  497601 15/613,788 6/12/2017 Automated Dynamic Data Quality 2018-015/767 10,346,518 7/23/2019 SSUED US Groupen, Inc.  497601 15/623,713 6/15/2017 Automated Organic Data Quality 2018-015/767 10,346,518 7/23/2019 SSUED US Groupen, Inc.  497601 15/623,713 6/15/2017 Obstace Calable Calab	Groupon, Inc.									
Groupon, Inc.   698590   15/598,879   5/18/2017   Verification Of Rederaption of An   2018-0017094   10,102.539   10/16/2018   ISSUED   US   Groupon, Inc.   498345   15/598,774   5/18/2017   Presence Detection Based On Crowd Surfing Signal Strength   10,200,817   2/5/2019   ISSUED   US   Groupon, Inc.   49755   15/606,608   5/26/2017   Centralized, Sciabile, Resource Monitoring System   499154   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Metchant Device Activity   2018-0109432   10,181,992   1/15/2019   ISSUED   US   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Metchant Device Activity   2018-0150677   10,360,516   7/23/2017   ISSUED   US   15/613,918   6/5/2017   Automated Dynamic Data Quality   2018-0150677   10,360,516   7/23/2019   ISSUED   US   15/613,918   6/5/2017   Automated Dynamic Data Quality   2018-0150677   10,360,516   7/23/2019   ISSUED   US   15/614,605   7/31/2017   Method, Apparatus, And Computer Program Product For Baseling Content Channels   498938   15/646,605   7/31/2017   Method And System For Enabling Content Channels   498048   15/646,405   7/31/2017   Method And System For Enabling Content Channels   498048   15/646,405   7/31/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   15/646,704   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   48/25/2017	Section   Sect		497903	15/589,246	5/8/2017	Embedded Storefront	2018-0089714	10,685,371	6/16/2020	ISSUED	US
Groupon, Inc.   698590   15/598,879   5/18/2017   Verification Of Rederaption of An   2018-0017094   10,102.539   10/16/2018   ISSUED   US   Groupon, Inc.   498345   15/598,774   5/18/2017   Presence Detection Based On Crowd Surfing Signal Strength   10,200,817   2/5/2019   ISSUED   US   Groupon, Inc.   49755   15/606,608   5/26/2017   Centralized, Sciabile, Resource Monitoring System   499154   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Metchant Device Activity   2018-0109432   10,181,992   1/15/2019   ISSUED   US   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Metchant Device Activity   2018-0150677   10,360,516   7/23/2017   ISSUED   US   15/613,918   6/5/2017   Automated Dynamic Data Quality   2018-0150677   10,360,516   7/23/2019   ISSUED   US   15/613,918   6/5/2017   Automated Dynamic Data Quality   2018-0150677   10,360,516   7/23/2019   ISSUED   US   15/614,605   7/31/2017   Method, Apparatus, And Computer Program Product For Baseling Content Channels   498938   15/646,605   7/31/2017   Method And System For Enabling Content Channels   498048   15/646,405   7/31/2017   Method And System For Enabling Content Channels   498048   15/646,405   7/31/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,405   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   15/646,704   8/25/2017   Method And System For Enabling Content Channels   498049   15/646,605   48/25/2017	Section   Sect										
Section   Sect	Cestronic Offer   Cestronic	Groupon, Inc.	100500	4 5 /5 00 0 0 0	= /4 0 /0 0 4 =	14 15 11 252 1 11 254	2010 001=011	10 100 500	10/15/0010	.cc.iee	
Secure   S	Greupon, Inc.  981965   55/598,779   \$718/2017   Presence Detection Based On Crowd Surfing, Signal Strength Convol Surfing, Signal Strength Convolution Convol		498590	15/598,8/9	5/18/201/	· ·	2018-004/044	10,102,539	10/16/2018	ISSUED	US
Groupon, Inc.   Groupon, Inc	Section   Sect	C !				Electronic Offer					
Groupon, Inc.   49725   15/605,608   5/26/2017   Centralized, Scalable, Resource Monitoring System   2018-0109432   10,181,992   1715/2019   SSUED   US   Groupon, Inc.   499154   15/613,918   6/5/2017   Location Based Discovery Of Real- Time Merchant Device Activity   2017-0272909   8,848,300   12/19/2017   SSUED   US   Groupon, Inc.   500320   15/613,918   6/15/2017   Automated Dynamic Data Quality   2018-010767   10,360,516   7,723/2019   SSUED   US   Groupon, Inc.   496049   15/623,713   6/15/2017   Method, Apparatus, And Computer Program Product For Ranking Content Chambells   15/645,713   15/645,605   7/31/2017   Obfuscation Of Email Addresses   2018-0060328   10,572,492   2,725/2020   SSUED   US   Groupon, Inc.   498938   15/664,605   7/31/2017   Obfuscation Of Email Addresses   2018-0060328   10,572,492   2,725/2020   SSUED   US   Groupon, Inc.   499051   15/685,724   8/25/2017   Method And System For Enabling The Creation And Maintenance of Proximity-Related User Groups   10,142,784   11/27/2018   SSUED   US   Groupon, Inc.   499539   15/686,724   8/25/2017   Observery Of New Business   2018-0114253   10,460,356   10/29/2019   SSUED   US   Groupon, Inc.   499539   15/688,203   9/7/2017   Chambel Awarding Of Prizes in Chambel Awarding Of P	Groupon, Inc.  497525   15/606,608   5/26/2017   Centralised, Scalable, Resource Markstoning System   2018-0109432   10,181,992   1/15/2019   ISSUED   US   Groupon, Inc.  499154   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Merchant Device Activity   2018-0109432   10,181,992   1/15/2017   ISSUED   US   Groupon, Inc.  500320   15/613,786   6/12/2017   Automated Dynamic Data Quality   2018-0150767   10,360,516   7/23/2019   ISSUED   US   Groupon, Inc.  498049   15/623,713   6/15/2017   Automated Dynamic Data Quality   2018-0150767   10,360,516   7/23/2019   ISSUED   US   Groupon, Inc.  498049   15/623,713   6/15/2017   Archivol. Apparatis, And computer Program Product For Banking Content Channels   2018-0150767   10,360,516   7/16/2019   ISSUED   US   Groupon, Inc.  498038   15/664,605   7/23/2017   Officiaction Official Addresses   2018-0109499   10,356,051   7/16/2019   ISSUED   US   Groupon, Inc.  498038   15/664,605   7/23/2017   Officiaction Official Addresses   2018-0109499   10,356,051   7/16/2019   ISSUED   US   Groupon, Inc.  500437   15/668,713   8/23/2017   Discovery Office Real-Time Program Product For South Product For South Program Product For South For South Program Product For South For South For South Program Product For South For South For South Program Product F	aroupon, mc.	40424E	15/500 774	E/19/2017	Processo Detection Recod On	2019 0077526	10 200 917	2/5/2010	ICCLIED	HC
Groupon, Inc.   497525   15/606,608   5/26/2017   Controllated, Scalable, Resource Monktoring System   Value	Groupon, Inc.  497525   15/606,608   5/26/2017   Centralized, Scalable, Resource Mantoring System Company, Inc.  499154   15/613,918   6/5/2017   Cucation Based Discovery Of Real Time Marchant Device, Action System (Company, Inc.)  600220   15/613,786   6/12/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,786   6/12/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,786   6/12/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,786   6/12/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,713   6/15/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,713   6/15/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,713   6/15/2017   Automated Dynamic Data Quality (Company, Inc.)  600220   15/613,713   6/15/2017   Automated Data Quality (Company, Inc.)  600220   15/613,723   6/15/2017   Automated Data Quality (Company, Inc.)  600220   15/613,723   6/15/2017   Automated Data Quality (Company, Inc.)  600220   15/613,724		434343	13/336,774	3/16/2017		2018-0077320	10,200,617	2/3/2019	1330ED	03
Groupon, Inc.   499354   15/606,608   3/26/2017   Contralized, Scalable, Resource Monitoring System Using	Program   Prog	Groupon, Inc	1			2.3774 Sa. Ting Signal Strength	1		1	1	
Monitoring System   Moni	Monitoring System   Moni		497525	15/606.608	5/26/2017	Centralized, Scalable. Resource	2018-0109432	10,181.992	1/15/2019	ISSUED	US
	Groupon, Inc.   499154   15/613,918   6/5/2017   Location Based Discovery Of Real-Toll 7-0272909   8,488,300   12/19/2017   ISSUED   US			,,,						1	
Groupon, Inc.   15/613,918   6/5/2017   Location Based Discovery Of Real-Time Merchant Device Activity   2018-0150767   10,360,516   7/23/2019   ISSUED   US   15/619,786   6/12/2017   Automated Dynamic Data Quality   2018-0150767   10,360,516   7/23/2019   ISSUED   US   15/619,786   6/12/2017   Automated Dynamic Data Quality   2018-0150767   10,360,516   7/23/2019   ISSUED   US   15/619,786   15/623,713   6/15/2017   Method, Apparatus, And Computer Program Product For Raining Content Channels   10,572,492   7/25/2020   ISSUED   US   15/644,605   7/31/2017   Obluscation Of Email Addresses   2018-0109499   10,356,051   7/16/2019   ISSUED   US   15/644,723   8/23/2017   Method And System For Enabling The Creation And Maintenance of Proceedings of	Groupon, Inc.   General Characteristics	Groupon, Inc.				,					
Time Merchant Device Activity   Sirupon, Inc.   South   Sirupon, Inc.   Sout	Time Merchant Device Activity		499154	15/613,918	6/5/2017	Location Based Discovery Of Real-	2017-0272909	9,848,300	12/19/2017	ISSUED	US
South   Sout	S00320   15/619,786   6/12/2017   Automated Opynamic Data Quality Assessment   10,360,516   7/23/2019   ISSUED   US						1		1	1	
Assessment   Ass	Assessment  Assess	Groupon, Inc.									
Groupon, Inc.	Groupon, Inc.		500320	15/619,786	6/12/2017	Automated Dynamic Data Quality	2018-0150767	10,360,516	7/23/2019	ISSUED	US
Age	Section   Sect					Assessment					
Groupon, Inc.   Computer Program Product For Ranking Content Channels   R	Computer Program Product For Ranking Contest Channels   Ranking Contest C	Groupon, Inc.									
Groupon, Inc.   49838   15/664,605   7/31/2017   Obfuscation Of Email Addresses   2018-0109499   10,356,051   7/16/2019   ISSUED   US	Ranking Content Channels   Ranking Content Cha		496049	15/623,713	6/15/2017		2018-0060328	10,572,492	2/25/2020	ISSUED	US
Groupon, Inc.   A99051   15/684,605   7/31/2017   Obfuscation Of Email Addresses   2018-0109499   10,356,051   7/16/2019   ISSUED   US	Agency	_				1					
Groupon, Inc.  499051 15/684,723 8/23/2017 Method And System For Enabling The Creation And Maintenance Of Proximity-Related User Groups 6roupon, Inc.  503437 15/686,724 8/25/2017 Discovery Of New Business Openings Using Web Content Analysis Analysis Groupon, Inc.  499539 15/698,203 9/7/2017 Generic Message Injection System Charles In Chance-Based Contents Chance-Based Contents Chance-Based Contents Data 6roupon, Inc.  507195 15/815,299 11/16/2017 Dynamic Clustering For Streaming Data 6roupon, Inc.  507349 15/816,536 11/17/2017 Location Based Discovery Of Real-Time Merchant Device Activity 6roupon, Inc.  507349 15/816,536 11/19/2017 Predictive Recommendation System Using Tiered Feature Data 6roupon, Inc.  507360 15/840,536 12/13/2017 Predictive Recommendation System Using Tiered Feature Data 6roupon, Inc.  507361 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507362 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507363 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507364 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507365 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507365 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.  507366 15/859,871 1/2/2018 Mebile Proximity Based Messages 6roupon, Inc.	Groupon, Inc.   499051   15/684,723   8/23/2017   Method And System For Enabling The Creation And Maintenance Of Proximity-Related User Groups   10,142,784   11/27/2018   ISSUED   US   15/686,724   8/25/2017   Discovery Of New Business Openings Using Web Content Analysis   15/698,203   9/7/2017   Generic Message Injection System   2018-0114253   10,480,356   10/29/2019   ISSUED   US   Groupon, Inc.   499519   15/811,956   11/14/2017   Dynamic Awarding Of Prizes in Chance-Based Contexts   2018-021043   10,621,819   4/14/2020   ISSUED   US   Groupon, Inc.   507195   15/815,299   11/16/2017   Dynamic Clustering For Streaming Data   2018-0221705   10,091,617   10/2/2018   ISSUED   US   Groupon, Inc.   507349   15/816,536   11/17/2017   Location Based Discovery Of Real-Time Merchant Device Activity   2018-0227705   10,091,617   10/2/2018   ISSUED   US   11/29/2017   Predictive Recommendation System Using Tiered Feature Data   508096   15/826,562   11/29/2017   Apparatus And Method For Distance-Based Option Data   507256   15/859,871   1/2/2018   Mobile Proximity Based Messages   2018-0288564   10,382,888   8/13/2019   ISSUED   US   507256   15/899,871   1/2/2018   Method, Apparatus, And Computer Program Product For Classifying User Search Data   400000000000000000000000000000000000	Groupon, Inc.	400000	15/554.505	7/24/2017	-	2010 0100400	10.250.051	7/15/2010	ICCLIED	Lie
A99051   15/684,723   8/23/2017   Method And System For Enabling The Creation And Maintenance Of Proximity-Related User Groups   10,142,784   11/27/2018   ISSUED   US	Age		498938	15/664,605	//31/201/	Obtuscation Of Email Addresses	2018-0109499	10,356,051	//16/2019	ISSUED	US
A99051   15/684,723   8/23/2017   Method And System For Enabling The Creation And Maintenance Of Proximity-Related User Groups   10,142,784   11/27/2018   ISSUED   US	Age	Groupon Inc									
The Creation And Maintenance of Proximity-Related User Groups   South Proximity Related User Program Product For Groups   South Proximity Related User Groups   South Proximity Related User Program Product For Groups   South Proximity Related User Groups   South Proximity Related User Program Product For Groups   South Proximity Related User Group	The Creation And Maintenance Of Proximity-Related User Groups   S03437   15/686,724   8/25/2017   Discovery Of New Business Openings Using Web Content Analysis   2018-0137524   10,489,800   11/26/2019   ISSUED   US   S07049   15/811,956   11/14/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-0214253   10,460,356   10/29/2019   ISSUED   US   S07049   15/815,299   11/16/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-021043   10,621,819   4/14/2020   ISSUED   US   4/14/20	этопроп, піс.	499051	15/684 723	8/23/2017	Method And System For Enabling	2018-0077527	10 142 784	11/27/2018	ISSUED	LIS
Groupon, Inc.   So3437   15/686,724   8/25/2017   Discovery Of New Business Openings Using Web Content Analysis   Dispute Program Product For Compon, Inc.   So3437   15/686,724   8/25/2017   Discovery Of New Business Openings Using Web Content Analysis   Discovery Of New Business Openings Using Web Content Analysis   Discovery Of New Business Openings Using Web Content Analysis   Discovery Of New Business Openings Using Web Content Analysis   Discovery Of New Business Openings Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using Web Content Analysis   Discovery Of New Business Opening Using	Frozinity-Related User Groups		133031	13,001,723	0,23,201,		1	10,112,701	11,2,,2010	133025	
Solition	S03437   15/686,724   8/25/2017   Discovery Of New Business Openings Using Web Content Analysis	Groupon, Inc.									
Groupon, Inc.   Groupon, Inc	Groupon, Inc.  499539 15/698,203 9/7/2017 Generic Message Injection System 2018-0114253 10,460,356 10/29/2019 ISSUED US  Groupon, Inc.  499010 15/811,956 11/14/2017 Dynamic Awarding Of Prizes In Chance-Based Contests  Groupon, Inc.  507195 15/815,299 11/16/2017 Dynamic Clustering For Streaming 2018-0261043 10,621,819 4/14/2020 ISSUED US  Groupon, Inc.  507349 15/816,536 11/17/2017 Location Based Discovery Of Real- Time Merchart Device Activity  Groupon, Inc.  504086 15/826,562 11/29/2017 Predictive Recommendation System Using Tiered Feature Data  Groupon, Inc.  508096 15/840,536 12/13/2017 Dynamic Clustering For Streaming 2018-0227705 10,091,617 10/2/2018 ISSUED US  Groupon, Inc.  508096 15/840,536 12/13/2017 Apparatus And Method For Distance-Based Option Data Object Filtering And Modification  507256 15/859,871 1/2/2018 Mobile Proximity Based Messages 2018-0288564 10,382,888 8/13/2019 ISSUED US  Groupon, Inc.  499014 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  499014 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  511124 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  499014 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  512242 15/926,170 3/20/2018 Visitor Detection Unit And 2019-095952 10,510,096 12/17/2019 ISSUED US		503437	15/686,724	8/25/2017		2018-0137524	10,489,800	11/26/2019	ISSUED	US
Age	Section   Sect				' '	1 · · · · · · · · · · · · · · · · · · ·		' '			
Groupon, Inc.  499010 15/811,956 11/14/2017 Dynamic Awarding Of Prizes In Chance-Based Contests  Groupon, Inc.  507195 15/815,299 11/16/2017 Dynamic Clustering For Streaming 2018-0293293 10,339,163 7/2/2019 ISSUED US Contests  Groupon, Inc.  507349 15/816,536 11/17/2017 Location Based Discovery Of Real-Time Merchant Device Activity  Groupon, Inc.  504086 15/826,562 11/29/2017 Predictive Recommendation System Using Tiered Feature Data Cobject Filtering And Modification  Groupon, Inc.  507256 15/859,871 1/2/2018 Method, Apparatus, And Computer Program Product For Omputer Program Product For Computer Program Product For	Groupon, Inc.  499010 15/811,956 11/14/2017 Dynamic Awarding Of Prizes In Chance-Based Contests  Groupon, Inc.  507195 15/815,299 11/16/2017 Dynamic Clustering For Streaming Data  507195 15/815,299 11/16/2017 Dynamic Clustering For Streaming Data  507349 15/816,536 11/17/2017 Location Based Discovery Of Real-Time Merchant Device Activity  Groupon, Inc.  507349 15/816,536 11/17/2017 Location Based Discovery Of Real-Time Merchant Device Activity  Groupon, Inc.  504086 15/826,562 11/29/2017 Predictive Recommendation System Using Tiered Feature Data  Groupon, Inc.  508096 15/840,536 12/13/2017 Apparatus And Method For Distance-Based Option Data Object Filtering And Modification  507256 15/859,871 1/2/2018 Mobile Proximity Based Messages  600400, Inc.  511124 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  499014 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  51124 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  51124 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  51124 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Classifying User Search Data  Groupon, Inc.  51124 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  511247 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  511247 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  511247 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  511247 15/919,414 3/13/2018 Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  511217/2019 ISSUED US	Groupon, Inc.				Analysis					
A99010   15/811,956   11/14/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-0261043   10,621,819   4/14/2020   ISSUED   US	A99010   15/811,956   11/14/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-0261043   10,621,819   4/14/2020   ISSUED   US		499539	15/698,203	9/7/2017	Generic Message Injection System	2018-0114253	10,460,356	10/29/2019	ISSUED	US
A99010   15/811,956   11/14/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-0261043   10,621,819   4/14/2020   ISSUED   US	A99010   15/811,956   11/14/2017   Dynamic Awarding Of Prizes In Chance-Based Contests   2018-0261043   10,621,819   4/14/2020   ISSUED   US										
Chance-Based Contests   Chan	Chance-Based Contests   Chan	Groupon, Inc.									
Groupon, Inc.   Groupon, Inc.   Software	Sort		499010	15/811,956	11/14/2017	' "	2018-0261043	10,621,819	4/14/2020	ISSUED	US
Solution	Soft	_				Chance-Based Contests					
Data	Data	Groupon, Inc.	E0740E	45 (045 200	44 /4 6 /2047	D. Clark in F. Charles	2010 0202202	40 220 462	7/2/2010	ICCLIED	LIC
Groupon, Inc.   S07349   15/816,536   11/17/2017   Location Based Discovery Of Real-Time Merchant Device Activity   S04086   15/826,562   11/29/2017   Predictive Recommendation System Using Tiered Feature Data   S08096   15/840,536   12/13/2017   Apparatus And Method For Distance-Based Option Data Object Filtering And Modification   S07256   15/859,871   1/2/2018   Mobile Proximity Based Messages   S018-0288564   10,382,888   8/13/2019   ISSUED   US   SUED   US   S04096   ISSUED   US   ISSUED   ISSUED   US   ISSU	Sort		50/195	15/815,299	11/16/201/		2018-0293293	10,339,163	//2/2019	ISSUED	US
Solution	Society   Soci	Groupon Inc				1000	1		1	1	
Time Merchant Device Activity   Source   Sourc	Time Merchant Device Activity   Source   Sourc	о. эмроп, пк.	507349	15/816.536	11/17/2017	Location Based Discovery Of Real-	2018-0227705	10.091.617	10/2/2018	ISSUED	us
Groupon, Inc.         504086         15/826,562         11/29/2017         Predictive Recommendation System Using Tiered Feature Data Object Filtering And Modification         10,706,439         7/7/2020         ISSUED         US           Groupon, Inc.         508096         15/840,536         12/13/2017         Apparatus And Method For Distance-Based Option Data Object Filtering And Modification         10,219,105         2/26/2019         ISSUED         US           Groupon, Inc.         507256         15/859,871         1/2/2018         Mobile Proximity Based Messages Option Data Object Filtering And Modification         10,382,888         8/13/2019         ISSUED         US           Groupon, Inc.         511124         15/919,742         3/13/2018         Method, Apparatus, And Computer Program Product For         2018-0268438         10,657,560         5/19/2020         ISSUED         US	Groupon, Inc.   South   Sout		1		,,,			,,,,,,,,,			
Solution	South   Sout	Groupon, Inc.	1				1		1	1	
Groupon, Inc.         508096         15/840,536         12/13/2017         Apparatus And Method For Distance-Based Option Data Object Filtering And Modification         10,219,105         2/26/2019         ISSUED         US           Groupon, Inc.         507256         15/859,871         1/2/2018         Mobile Proximity Based Messages         2018-0288564         10,382,888         8/13/2019         ISSUED         US           Groupon, Inc.         511124         15/919,742         3/13/2018         Method, Apparatus, And Computer Program Product For         2018-0268438         10,657,560         5/19/2020         ISSUED         US	System Using Tiered Feature Data   System Using Tiered T		504086	15/826,562	11/29/2017	Predictive Recommendation		10,706,439	7/7/2020	ISSUED	US
Solution	Solution					System Using Tiered Feature Data	1		1	1	
Distance-Based Option Data   Object Filtering And Modification   S07256   15/859,871   1/2/2018   Mobile Proximity Based Messages   2018-0288564   10,382,888   8/13/2019   ISSUED   US   S07256   S11124   S1/919,742   3/13/2018   Method, Apparatus, And Computer Program Product For   Computer Program Product	Distance-Based Option Data   Object Filtering And Modification   S07256   15/859,871   1/2/2018   Mobile Proximity Based Messages   2018-0288564   10,382,888   8/13/2019   ISSUED   US	Groupon, Inc.									
Groupon, Inc.         S07256         15/859,871         1/2/2018         Mobile Proximity Based Messages         2018-0288564         10,382,888         8/13/2019         ISSUED         US           Groupon, Inc.         511124         15/919,742         3/13/2018         Method, Apparatus, And Computer Program Product For         2018-0268438         10,657,560         5/19/2020         ISSUED         US	Groupon, Inc.   Discription of the computer of		508096	15/840,536	12/13/2017			10,219,105	2/26/2019	ISSUED	US
507256   15/859,871   1/2/2018   Mobile Proximity Based Messages   2018-0288564   10,382,888   8/13/2019   ISSUED   US   Groupon, Inc.   511124   15/919,742   3/13/2018   Method, Apparatus, And Computer Program Product For   2018-0268438   10,657,560   5/19/2020   ISSUED   US   US   Computer Program Product For   2018-0268438   10,657,560   5/19/2020   ISSUED   US   2018-0268438   2018-02684	S07256   15/859,871   1/2/2018   Mobile Proximity Based Messages   2018-0288564   10,382,888   8/13/2019   ISSUED   US			I		•	1		1	1	
Groupon, Inc.  511124 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For Computer Program Product For State Product For Computer Program Pr	Groupon, Inc.  511124  15/919,742  3/13/2018  Method, Apparatus, And Computer Program Product For Classifying User Search Data  499014  15/919,414  3/13/2018  Method, Apparatus, And Computer Program Product For Classifying User Search Data  Method, Apparatus, And Computer Program Product For Calculating A Supply Based On  512242  15/926,170  3/20/2018  Visitor Detection Unit And  2018-0268438  10,657,560  5/19/2020  ISSUED  US  10,706,435  7/7/2020  ISSUED  US  10,510,096  12/17/2019  ISSUED  US	Groupon, Inc.				Ubject Filtering And Modification	ļ	1	1	<del>                                     </del>	1
511124 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For 2018-0268438 10,657,560 5/19/2020 ISSUED US	Since   Sinc									HSSUED	IUS
511124 15/919,742 3/13/2018 Method, Apparatus, And Computer Program Product For 2018-0268438 10,657,560 5/19/2020 ISSUED US	S11124   15/919,742   3/13/2018   Method, Apparatus, And Computer Program Product For Classifying User Search Data   15/919,414   3/13/2018   Method, Apparatus, And Computer Program Product For Classifying User Search Data   2018-0268428   10,706,435   7/7/2020   ISSUED   US   15/919,414   3/13/2018   Method, Apparatus, And Computer Program Product For Calculating A Supply Based On   S1242   15/926,170   3/20/2018   Visitor Detection Unit And   2019-0095952   10,510,096   12/17/2019   ISSUED   US   15/926,170   15/926	, ,	507256	15/859,871	1/2/2018	Mobile Proximity Based Messages	2018-0288564	10,382,888	8/13/2019		
Computer Program Product For	Computer Program Product For Classifying User Search Data		507256	15/859,871	1/2/2018	Mobile Proximity Based Messages	2018-0288564	10,382,888	8/13/2019		
	Groupon, Inc.         Classifying User Search Data         Logoration         Classifying User Search Data         Logoration										LIC
Groupen Inc. 1 I I I I I I I I I I I I I I I I I I	499014   15/919,414   3/13/2018   Method, Apparatus, And Computer Program Product For Calculating A Supply Based On   512242   15/926,170   3/20/2018   Visitor Detection Unit And   2019-0095952   10,510,096   12/17/2019   ISSUED   US					Method, Apparatus, And					US
	Computer Program Product For Calculating A Supply Based On   12/17/2019   ISSUED US	Groupon, Inc.				Method, Apparatus, And Computer Program Product For					us
	Groupon, Inc.         Calculating A Supply Based On         Logonome		511124	15/919,742	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data	2018-0268438	10,657,560	5/19/2020	ISSUED	
	512242 15/926,170 3/20/2018 Visitor Detection Unit And 2019-0095952 10,510,096 12/17/2019 ISSUED US	Groupon, Inc.	511124	15/919,742	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And	2018-0268438	10,657,560	5/19/2020	ISSUED	
		Groupon, Inc. Groupon, Inc.	511124	15/919,742	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For	2018-0268438	10,657,560	5/19/2020	ISSUED	
		Groupon, Inc.	511124	15/919,742 15/919,414	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On	2018-0268438 2018-0268428	10,657,560	5/19/2020 7/7/2020	ISSUED	US
	Groupon, Inc.	Groupon, Inc. Groupon, Inc.	511124	15/919,742 15/919,414	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And	2018-0268438 2018-0268428	10,657,560	5/19/2020 7/7/2020	ISSUED	US
Groupon, Inc.		Groupon, Inc. Groupon, Inc. Groupon, Inc.	511124	15/919,742 15/919,414	3/13/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And	2018-0268438 2018-0268428	10,657,560	5/19/2020 7/7/2020	ISSUED	US
		Groupon, Inc. Groupon, Inc. Groupon, Inc.	511124 499014 512242	15/919,742 15/919,414 15/926,170	3/13/2018 3/13/2018 3/20/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And Identification System	2018-0268438 2018-0268428 2019-0095952	10,657,560 10,706,435 10,510,096	5/19/2020 7/7/2020 12/17/2019	ISSUED  ISSUED	US
Groupon, Inc.	511123 15/953,635 4/16/2018 Method, Apparatus, And 2018-0365716 10,657,567 5/19/2020 ISSUED US	Groupon, Inc. Groupon, Inc. Groupon, Inc.	511124 499014 512242	15/919,742 15/919,414 15/926,170	3/13/2018 3/13/2018 3/20/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And Identification System Method, Apparatus, And	2018-0268438 2018-0268428 2019-0095952	10,657,560 10,706,435 10,510,096	5/19/2020 7/7/2020 12/17/2019	ISSUED  ISSUED	US
Groupon, Inc.		Groupon, Inc. Groupon, Inc. Groupon, Inc.	511124 499014 512242	15/919,742 15/919,414 15/926,170	3/13/2018 3/13/2018 3/20/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And Identification System	2018-0268438 2018-0268428 2019-0095952	10,657,560 10,706,435 10,510,096	5/19/2020 7/7/2020 12/17/2019	ISSUED  ISSUED	US
Groupon, Inc. 511123 15/953,635 4/16/2018 Method, Apparatus, And 2018-0365716 10,657,567 5/19/2020 ISSUED US	511123 15/953,635 4/16/2018 Method, Apparatus, And 2018-0365716 10,657,567 5/19/2020 ISSUED US	Groupon, Inc. Groupon, Inc. Groupon, Inc.	511124 499014 512242	15/919,742 15/919,414 15/926,170	3/13/2018 3/13/2018 3/20/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And Identification System Method, Apparatus, And	2018-0268438 2018-0268428 2019-0095952	10,657,560 10,706,435 10,510,096	5/19/2020 7/7/2020 12/17/2019	ISSUED  ISSUED	US
Groupon, Inc. 511123 15/953,635 4/16/2018 Method, Apparatus, And 2018-0365716 10,657,567 5/19/2020 ISSUED US	511123 15/953,635 4/16/2018 Method, Apparatus, And Computer Program Product For 2018-0365716 10,657,567 5/19/2020 ISSUED US	Groupon, Inc.  Groupon, Inc.  Groupon, Inc.	511124 499014 512242	15/919,742 15/919,414 15/926,170	3/13/2018 3/13/2018 3/20/2018	Method, Apparatus, And Computer Program Product For Classifying User Search Data Method, Apparatus, And Computer Program Product For Calculating A Supply Based On Visitor Detection Unit And Identification System  Method, Apparatus, And Computer Program Product For	2018-0268438 2018-0268428 2019-0095952	10,657,560 10,706,435 10,510,096	5/19/2020 7/7/2020 12/17/2019	ISSUED  ISSUED	US

	F12870	15/057 199	4/10/2018	Canfigurable Belevance Comice	2018 0208122	10 712 600	7/14/2020	liceurp	lue
Groupon, Inc.	513879	15/957,188	4/19/2018	Configurable Relevance Service Test Platform	2018-0308132	10,713,690	7/14/2020	ISSUED	US
Groupon, Inc.	499013	15/984,604	5/21/2018	Method, Apparatus, And Computer Program Product For Lead Assignment	2019-0019124	10,679,265	6/9/2020	ISSUED	US
	515584	15/997,921	6/5/2018	Method, Apparatus, And Computer Program Product For	2019-0012682	10,685,362	6/16/2020	ISSUED	US
Groupon, Inc.	516851	16/018,673	6/26/2018	Forecasting Demand Using Real  Method And System For  Determining Location Of Mobile  Device	2019-0028845	10,531,235	1/7/2020	ISSUED	US
Groupon, Inc.	515913	16/019,584	6/27/2018	Systems And Methods For Providing Promotion Sharing Among Consumers	2019-0005529	10,546,314	1/28/2020	ISSUED	US
Groupon, Inc.	517025	16/037,087	7/17/2018	Offline Location-Based Consumer Metrics Using Online Signals	2019-0012701	10,366,410	7/30/2019	ISSUED	US
Groupon, Inc.	518226	16/050,986	7/31/2018	Graph-Based Compression Of Data Records	2019-0026773	10,311,471	6/4/2019	ISSUED	US
Groupon, Inc.	517026	16/051,955	8/1/2018	Method, Apparatus, And Computer Program Product For	2019-0034942	10,706,430	7/7/2020	ISSUED	US
Groupon, Inc.	517027	16/106,167	8/21/2018	Consumer Tracking Method, Apparatus, And	2019-0087841	10,692,101	6/23/2020	ISSUED	US
Groupon, Inc.	519555	16/111,743	8/24/2018	Computer Program Product For Providing A Dashboard Location Based Discovery Of Real-	2019-0098450	10,292,010	5/14/2019	ISSUED	US
Groupon, Inc.	519834	16/121,904	0/5/2019	Time Merchant Device Activity	2010 0188240	10 502 502	2/17/2020	ISSUED	US
Groupon, Inc.			9/5/2018	System And Method For Providing Content To Users Based On Interactions By Similar Other		10,592,592	3/17/2020		
Groupon, Inc.	521882	16/154,914	10/9/2018	Verification Of Redemption Of An Electronic Offer	2019-0220884	10,664,860	5/26/2020	ISSUED	US
Groupon, Inc.	518118	16/154,909	10/9/2018	Verification Of Redemption Of An Electronic Offer	2019-0213624	10,672,019	6/2/2020	ISSUED	US
	519833	16/158,665	10/12/2018	Wearable Device That Is Automatically Configurable	2019-0114660	10,304,076	5/28/2019	ISSUED	US
Groupon, Inc.	519858	16/174,496	10/30/2018	Between Wearer Facing And Email Suggestor System	2019-0205374	10,691,889	6/23/2020	ISSUED	US
Groupon, Inc.	519857	16/176,793	10/31/2018	Online Ordering For In-Shop Service		10,713,707	7/14/2020	ISSUED	US
Groupon, Inc.	523936	16/225,165	12/19/2018	Presence Detection Based On Crowd Surfing Signal Strength	2019-0297455	10,631,124	4/21/2020	ISSUED	US
Groupon, Inc.	519868	16/228,547	12/20/2018	Method, System, And Apparatus For Programmatically Generating		10,715,855	7/14/2020	ISSUED	US
Groupon, Inc.	527053	16/254,201	1/22/2019	A Channel Incrementality Ratio  Apparatus And Method For  Distance-Based Option Data		10,536,797	1/14/2020	ISSUED	US
Groupon, Inc.	528858	16/374,099	4/3/2019	Object Filtering And Modification Location Based Discovery Of Real- Time Merchant Device Activity	2019-0297458	10,542,376	1/21/2020	ISSUED	US
Groupon, Inc.	528859	16/387,852	4/18/2019	Wearable Device That Is	2019-0311393	10,650,401	5/12/2020	ISSUED	US
Groupon, Inc.	528856	16/392,255	4/23/2019	Automatically Configurable Between Wearer Facing And Graph-Based Compression Of Data	2019-0303965	10,614,486	4/7/2020	ISSUED	US
Groupon, Inc.	528987	16/401,018	5/1/2019	Records  Predictive Recommendation	2019-0325475	10,592,918	3/17/2020	ISSUED	US
Groupon, Inc.				System Using Tiered Feature Data					
Groupon, Inc.	532753	16/445,261	6/19/2019	Offline Location-Based Consumer Metrics Using Online Signals	2020-0043040	10,600,079	3/24/2020	ISSUED	us
Groupon, Inc.	533408	16/447,423	6/20/2019	Interactive Virtual Reality System	2019-0378336	10,650,606	5/12/2020	ISSUED	US
	426810	12/169,601	7/8/2008	Searching And Presenting User Preferences In Social Media Networks				PENDING	US
Groupon, Inc.	488869	12/580,176	10/15/2009	Ad Targeting & Display Optimization Based On Social And				PENDING	US
Groupon, Inc.				Community Data					

	436861	13/460,745	4/30/2012	Sales Enhancement System		PENDING	US
Groupon, Inc.	436867	13/756,145	1/31/2013	Pre-Feature Promotion System		PENDING	US
	430807	13/730,143	1/31/2013	Pre-reacure Promotion System		FEINDING	03
Groupon, Inc.							
	428912	13/796,635	3/12/2013	Deal Meter		PENDING	US
Groupon, Inc.	100550	10/000 115	0.14.4.10.04.0				
	428573	13/803,445	3/14/2013	Method, Apparatus, And Computer Program Product For		PENDING	US
Groupon, Inc.				Sales Pipeline Automation			
отопрот, те.	428586	13/805,000	3/14/2013	Method, Apparatus, And		PENDING	US
			-,,	Computer Program Product For			
Groupon, Inc.				Identification Of Supply Sources			
	428898	13/829,581	3/14/2013	Promotion Offering System		PENDING	US
Groupon, Inc.	120000	42 (002 275	2/4 4/2042	14 1 1611 6 61		DENIDING	116
	428909	13/803,275	3/14/2013	Merchant Side Cross-Category  Deal Diversity		PENDING	US
Groupon, Inc.				Deal Diversity			
этопроп, пк.	431146	13/842,467	3/15/2013	Reservation System		PENDING	US
	1.522.15	120,012,107	0, 10, 1010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Groupon, Inc.							
	436864	13/839,102	3/15/2013	Customization Of Message		PENDING	US
				Delivery Time Based On Consumer			
Groupon, Inc.				Behavior			1
	436870	13/839,142	3/15/2013	Throttling System For Consumer		PENDING	US
C				Deals			
Groupon, Inc.	120000	42 (020 445	2/45/2042	B 11 Off 1 C 1		DENIDING	116
	436886	13/838,415	3/15/2013	Promotion Offering System Analyzing Collections Of		PENDING	US
Groupon, Inc.				Promotions			
этопроп, пк.	436890	13/839,958	3/15/2013	Inbox Management System		PENDING	US
		,,	-,,	,			
Groupon, Inc.							
	436891	13/841,433	3/15/2013	Consumer Cross-Category Deal		PENDING	US
				Diversity			
Groupon, Inc.							
	434840	13/919,944	6/17/2013	System For Providing A Service To	2013-0282490	PENDING	US
				Venues Where People Perform			
Groupon, Inc.	427152	14/020 607	0/27/2012	Transactions Systems And Methods For		PENDING	US
	437152	14/039,697	9/27/2013	Systems And Methods For Providing Optimized Leading		PENDING	03
Groupon, Inc.				Messages			
or oupon, mer	437380	14/039,227	9/27/2013	Getaways Systems		PENDING	US
			' '				
Groupon, Inc.							
	438912	14/103,256	12/11/2013	Method, Apparatus, And		PENDING	US
				Computer Program Product For			
Groupon, Inc.				Ascertaining A Demand Of			
	438916	14/103,093	12/11/2013	System, Apparatus, Method, And		PENDING	US
Groupon, Inc.				User Interface Configured For The Instant Sharing Of A Promotion			
этопроп, пк.	438918	14/103,290	12/11/2013	Editorial Content Service		PENDING	US
	1.555.25	1,,200,200					
Groupon, Inc.							
	441659	14/189,029	2/25/2014	Generation Of Promotion In An		PENDING	US
				Augmented Reality			
Groupon, Inc.	44:	44/200	2/25/55	6			Luc
	441658	14/193,646	2/28/2014	System, Method, And Computer		PENDING	US
Groupon, Inc.				Program Product For Calculating An Accepted Value For A			
атопроп, пс.	441536	14/200,699	3/7/2014	Method, Apparatus, And		PENDING	US
	1 2 3 3 0	1-7, 200,033	3,7,2014	Computer Readable Medium For		I ENDING	
Groupon, Inc.				Providing A Modular Self-Service			1
	441537	14/207,399	3/12/2014	Mobile App Detection		PENDING	US
Groupon, Inc.							
	443635	14/207,427	3/12/2014	App-Based Profile Data	[	PENDING	US
							1
Groupon, Inc.	443636	14/207 464	3/12/2014	Incontinuod Marshart Ann		PENDING	US
	443030	14/207,464	3/12/2014	Incentivized Merchant App  Download		PENDING	03
Groupon, Inc.							
	443637	14/207,456	3/12/2014	Method And System For Offering		PENDING	US
			1		1	1	1
	1773037			Promotion Impressions Using		 l l	
Groupon, Inc.	443037			Application Programs			
Groupon, Inc.	443638	14/207,450	3/12/2014			PENDING	US
Groupon, Inc. Groupon, Inc.		14/207,450	3/12/2014	Application Programs		PENDING	US

	441538	14/219,349	3/19/2014	Method And Apparatus For Generating An Electronic		PENDING	US
Groupon, Inc.				Communication			
	441915	14/222,369	3/21/2014	Systems, Apparatus, And Methods Of Providing Prepurchase		PENDING	US
Groupon, Inc.	444284	14/222,380	3/21/2014	Promotions Systems, Apparatus, And Methods		PENDING	US
Groupon, Inc.	444264	14/222,380	3/21/2014	Of Providing Promotions Based On Consumer Request		PENDING	US
этоироп, пс.	444235	14/231,532	3/31/2014	Systems, Appratus, And Methods		PENDING	US
Groupon, Inc.				Of Programmatically Determining Unique Contacts			
	444554	14/248,676	4/9/2014	Communication Beacon Based		PENDING	US
Groupon, Inc.				Promotions For Mobile Devices			
	443494	14/264,565	4/29/2014	Collaborative Editing Service		PENDING	US
Groupon, Inc.							
	445667	14/298,291	6/6/2014	Method, Apparatus, And Computer Program Product For		PENDING	US
Groupon, Inc.	445660	14/301,034	6/10/2014	Facilitating Dynamic Pricing  Non-Promotion Content		PENDING	US
Groupon, Inc.	443000	14,301,034	0,10,2014	Determination System		LINDING	03
этоироп, піс.	445109	14/311,098	6/20/2014	Consumer Device Presence-Based Transaction Session		PENDING	US
Groupon, Inc.				Transaction (CostOff			
	435768	14/316,970	6/27/2014	Booking Availability Engine		PENDING	US
Groupon, Inc.							
	435769	14/316,981	6/27/2014	Merchant Booking Availability Engine		PENDING	US
Groupon, Inc.	435771	14/316,994	6/27/2014	Consumer Booking Availability		PENDING	US
Groupon, Inc.	433771	14/310,994	0/27/2014	Engine		FEINDING	03
згоироп, пс.	445666	14/459,256	8/13/2014	Configuring Promotions For Local		PENDING	US
				Pickup Of Goods			
Groupon, Inc.	449907	14/473,933	8/29/2014	Systems And Methods For		PENDING	US
Graupan Inc				Providing Diversified Promotional Messages			
Groupon, Inc.	449908	14/473,918	8/29/2014	Systems And Methods For		PENDING	US
Groupon, Inc.				Providing Promotions Based On Search Queries			
. ,	450704	14/479,250	9/5/2014	Method And Apparatus For		PENDING	US
Groupon, Inc.				Providing Promotion Recommendations			
	449910	14/495,199	9/24/2014	Contractor Point Of Sale System		PENDING	US
Groupon, Inc.							
этоироп, пк.	454510	14/532,269	11/4/2014	Unlocking Editorial Content		PENDING	US
Groupon, Inc.	454803	14/539,937	11/12/2014	Sourcing Goods Based On Pre-		PENDING	US
				Feature Analytics			
Groupon, Inc.	454804	14/539,933	11/12/2014	Sourcing Goods Based On		PENDING	US
		, ,	,,	Predictive Modeling			
Groupon, Inc.	454490	14/557,042	12/1/2014	Method And Apparatus For		PENDING	US
_	1.5 1130	1.7557,042	12, 1, 2014	Providing Promotion Vouchers			
Groupon, Inc.	454480	14/565,380	12/9/2014	Systems And Methods for		PENDING	US
				Providing Group Promotions			
Groupon, Inc.	454530	14/565,534	12/10/2014	Method, Apparatus, And		PENDING	US
Groupon, Inc.		, ,	,,	Computer Program Product For Providing Management Of Sales			
	454479	14/567,524	12/11/2014	Method And Apparatus For		PENDING	US
Groupon, Inc.				Evaluating Electronic Marketing Communications			
	454508	14/568,514	12/12/2014	System For Predicting Consumer		PENDING	US
Groupon, Inc.				Purchasing Of Promotions			
	454473	14/571,027	12/15/2014	Systems, Apparatus, And Methods		PENDING	US
Groupon, Inc.				For Providing Merchant-Defined Local Promotions			
э. эироп, пК.	454476	14/571,018	12/15/2014	Systems, Apparatus, And Methods		PENDING	US
				For Providing Promotion			
Groupon, Inc.			1	Newsfeeds		1	1

	454478	14/571,013	12/15/2014	Systems, Apparatus, And Methods				PENDING	US
				For Providing Local Promotions					
Groupon, Inc.	454474	14/574 242	12/17/2014	Mathed And System For				DENIDING	Lie
	454474	14/574,343	12/1//2014	Method And System For Recommending Promotions To				PENDING	US
Groupon, Inc.				Consumers					
атопрот, те.	454306	14/578,192	12/19/2014	Processing Dynamic Data Using An				PENDING	US
		,		Adaptive Oracle-Trained Learning					
Groupon, Inc.				System					
	454529	14/577,320	12/19/2014	Method And System For Providing				PENDING	US
				Electronic Marketing					
Groupon, Inc.				Communications For A Promotion					
	454800	14/578,210	12/19/2014	Processing Dynamic Data Within				PENDING	US
Groupon, Inc.				An Adaptive Oracle-Trained Learning System Using Dynamic					
атопроп, п.е.	454507	14/579,964	12/22/2014	Systems, Apparatus, And Methods				PENDING	US
	13,307	1,,5,5,50	12,22,201	For Providing Promotions Based				1 2.1.5.1.10	
Groupon, Inc.				On Consumer Interactions					
	457021	14/626,381	2/19/2015	Method And System For Defining	2015-0242938			PENDING	US
				Consumer Interactions For					
Groupon, Inc.				Initiating Execution Of Commands					
	457045	14/628,995	2/23/2015	Method, Apparatus, and				PENDING	US
				Computer Program Product For Searching For Promotions					
Groupon, Inc.	457016	14/670,558	2/27/2015	<u> </u>				PENDING	US
	437016	14,070,336	3/27/2015	Method, Apparatus, And Computer Program Product For				LINDING	
Groupon, Inc.				Using External Consumer Data To					
	460236	14/675,125	3/31/2015	Time-Adjusted Dynamic				PENDING	US
				Promotion Analytics					
Groupon, Inc.									
	460973	14/693,712	4/22/2015	Generating In-Channel And Cross-				PENDING	US
				Channel Promotion					
Groupon, Inc.	460975	14/693,725	4/22/2015	Recommendations Using  Generating In-Channel and Cross-	-	-		PENDING	US
	460973	14/095,725	4/22/2013	Channel Promotion				PENDING	03
Groupon, Inc.				Recommendations Using					
	447945	14/705,449	5/6/2015	Method, Apparatus, And				PENDING	US
				Computer Readable Medium For					
Groupon, Inc.				Providing Management Of Stored					
	460971	14/719,993	5/22/2015	Method And System For Providing				PENDING	US
				Impressions Of Promotions Based					
Groupon, Inc.	462704	44/754 640	c lac lands	On Sufficiency Of Promotion Data				DENIDING	LIG
	462794	14/751,648	6/26/2015	Apparatus, System, And Method For Outputting Promotions				PENDING	US
Groupon, Inc.				Tor outputting Fromotions					
or oupon, mor	462944	14/752,311	6/26/2015	Method And System For				PENDING	US
				Programmatic Generation Of					
Groupon, Inc.				Survey Queries					
	460750	14/755,742	6/30/2015	Method, Apparatus, And				PENDING	US
				Computer Program Product For					
Groupon, Inc.	463955	14/700 474	6/30/2015	Facilitating Dynamic Change Of An				PENDING	US
	403933	14/788,474	6/30/2013	Promotional System Interaction Tracking				PENDING	03
Groupon, Inc.				True King					
	464054	14/811,521	7/28/2015	System And Method For				PENDING	US
				Programmatic Generation Of					
Groupon, Inc.				Attribute Descriptors	1	1			
	464055	14/818,915	8/5/2015	Method And System For				PENDING	US
Craupon I				Generating Purchase Recommendations Based On					
Groupon, Inc.	466721	14/824,922	8/12/2015	Ranked Relevance Results Using	-	1	1	PENDING	US
	750/21	1-7,024,322	0,12,2013	Multi-Featured Scoring Returned				. LINDING	
Groupon, Inc.				From A Universal Relevance					
	466723	14/824,934	8/12/2015	Personalization Of Ranked				PENDING	US
				Relevance Results Returned From					
Groupon, Inc.	1	1	1	A Universal Relevance Service		ļ	1		1
	464057	14/826,321	8/14/2015	Method, Apparatus, And				PENDING	US
Groupen Inc				Computer Program Product For Authenticating A Consumer For					
Groupon, Inc.	468196	14/833,815	8/24/2015	Purchasing, Redemption And	2016-0125492	<u> </u>	<u> </u>	PENDING	US
	1.33233	1 ., 555,615	1,2,1,2,13	Settlement Systems And Methods					1
				Wherein A Buyer Takes Possession					
Groupon, Inc.		14/839,490	8/28/2015	Method and Apparatus For				PENDING	US
Groupon, Inc.	464063		1	Identifying Trending Promotions					
	464063								
Groupon, Inc.									
	464063	14/843,170	9/2/2015	Method and Apparatus For Item				PENDING	US
Groupon, Inc.		14/843,170	9/2/2015	Method and Apparatus For Item Selection				PENDING	US
	464185			Selection					
Groupon, Inc.		14/843,170	9/2/2015					PENDING PENDING	US

	464065	14/865,157	9/25/2015	Method And Apparatus For			P	PENDING	US
				Configuring A Merchant Device					
Groupon, Inc.				Based On Business Analytic Data					
	464066	14/865,214	9/25/2015	Method And Apparatus For			P	PENDING	US
				Providing Merchant Decision-					
Groupon, Inc.				Making Support Based On A					
	464067	14/865,181	9/25/2015	Method And Apparatus For			P	PENDING	US
				Providing Automated Market					
Groupon, Inc.				Analysis Testing					
	464068	14/865,118	9/25/2015	Method And Apparatus For			P	PENDING	US
				Programmatic Promotion					
Groupon, Inc.				Generation Based On Business					
	464069	14/865,899	9/25/2015	Methods, Apparatuses, And			Р	PENDING	US
				Computer Program Products For					
Groupon, Inc.				Providing A Platform for					
	464070	14/867,640	9/28/2015	Apparatus, Method, And			P	PENDING	US
				Computer Program Product For					
Groupon, Inc.				Providing Group Rewards					
	464078	14/869,548	9/29/2015	System And Method For			Р	PENDING	US
		' '	' '	Generating Geographic Zone					
Groupon, Inc.				Information For Consumers					
	464079	14/869,542	9/29/2015	System And Method For		<u> </u>	Р	PENDING	US
	1	,,	-,,	Generating Geographic Zone					
Groupon, Inc.				Information For Commercial					
	464081	14/869,530	9/29/2015	System And Method For Detecting		+	D	PENDING	US
	1.5.551	1,,555,556	3,23,2013	Consumer Hot-Spots Based On					
Groupon, Inc.				Geographic Zone Information					
oapon, nic.	464100	14/869,517	9/29/2015	System And Method For Detecting		+		PENDING	US
	404100	14/803,317	3/23/2013	Commercial Hot-Spots Based On			ľ	LINDING	03
Groupon, Inc.				Geographic Zone Information					
отопроп, пс.	464099	14/919,111	10/21/2015	Method And System For		+	-	PENDING	US
	464099	14/919,111	10/21/2013	Programmatic Analysis Of			r	ENDING	03
C !				Consumer Sentiment With Regard					
Groupon, Inc.	400072	44/024472	40/27/2045	-	2016-0048884	+	<del>                                     </del>	ENDING	US
	488873	14/924,173	10/27/2015	Client-Based Deal Filtering And	2016-0048884		P	PENDING	US
				Display					
Groupon, Inc.	<b></b>					<del></del>	<del>                                     </del>		4
	464091	14/980,656	12/28/2015	Prescient And Adaptive Point-Of-			P	PENDING	US
				Sale Systems					
Groupon, Inc.									
	464092	14/980,703	12/28/2015	System And Apparatus For			P	PENDING	US
				Automatic Review Generation					
Groupon, Inc.									
	464094	14/980,627	12/28/2015	Dynamic Data-Driven Generation			P	PENDING	US
				Of Customized Incentives					
Groupon, Inc.									
	464095	14/980,678	12/28/2015	Motion Data Based Consumer			P	PENDING	US
				Interfaces					
Groupon, Inc.									
	464089	14/983,838	12/30/2015	Methods And Systems For			P	PENDING	US
				Managing Transmission Of					
Groupon, Inc.				Electronic Marketing					
	464093	14/983,671	12/30/2015	System And Apparatus For Self-			P	PENDING	US
				Forming Ad-Hoc Group					
Groupon, Inc.				Promotions					
	475643	15/045,642	2/17/2016	Circle Model Powered Suggestions	2016-0308988		P	PENDING	US
				And Activities					
Groupon, Inc.									
	474764	15/054,765	2/26/2016	Method, Apparatus, And			P	PENDING	US
			1	Computer Program Product For					
Groupon, Inc.			1	Facilitating The Management And					
	475461	15/074,152	3/18/2016	Automatic Entity Resolution Data			Р	PENDING	US
				Cleaning					
Groupon, Inc.			1		<u></u>				
	475798	15/083,441	3/29/2016	Apparatus And Method For			Р	PENDING	US
		1 '	1	Enhanced Message Targeting			j		
Groupon, Inc.									
. ,	475833	15/085,849	3/30/2016	Probabilistic Inventory	1	1	P	PENDING	US
		1 ' '	1	Management			į ľ		
Groupon, Inc.			1						
p /	476250	15/085,851	3/30/2016	Electronic Travel Planner	1	1	P	PENDING	US
		,,	1 -, - 2, - 2 - 2	7.070.7.071100			į ľ	•	1
Groupon, Inc.									
	475834	15/144,371	5/2/2016	Apparatus, Method, and	1	+		PENDING	US
	1,,,,,,,,	15/144,3/1	3,2,2010	Computer Program Product For			l l	2.101110	
Groupen Inc				Providing Synchronous Delivery Of					
Groupon, Inc.	475835	15/167,108	5/27/2016	Methods And Systems For	+	+	<del>                                     </del>	PENDING	US
	47,3033	13/10/,100	3/2//2016	Programmatic Control Of			<sup>1</sup>	LIADING	03
Graupes Is:			1	-			j		
Groupon, Inc.	470001	15/1/07/155	E /27 /2010	Transmitted Electronic Content	-	+	<del>                                     </del>	ENDING	LIC
	476001	15/167,155	5/27/2016	Methods And Systems For	1	1	I P	PENDING	US
				Programmatic Control Of	1		1		
Groupon, Inc.				Programmatic Control Of Transmitted Electronic Content					

	476002	15/167,178	5/27/2016	Methods And Systems For Programmatic Control Of			PENDING	US
Groupon, Inc.				Transmitted Electronic Content				
C	475686	15/174,173	6/6/2016	Apparatus And Method For Utilizing Immediate Gratification Promotions			PENDING	US
Groupon, Inc.	475688	15/174,156	6/6/2016	Apparatus And Method For Utilizing Proximity Density			PENDING	US
Groupon, Inc.	475799	15/192,439	6/24/2016	Mapping To Assist Relevance Hybrid Data Integration Platform			PENDING	US
Groupon, Inc.			1					
Groupon, Inc.	475803	15/192,366	6/24/2016	Method, Apparatus, And Computer Program Product For Merchant Classification			PENDING	US
	482771	15/228,263	8/4/2016	Method, Apparatus, And Computer Program Product For			PENDING	US
Groupon, Inc.	482911	15/253,665	8/31/2016	Facilitating The Activation Of Method, Apparatus, And			PENDING	US
Groupon, Inc.				Computer Program For Predicting Consumer Behavior				
	482989	15/280,738	9/29/2016	Method, Apparatus, And Computer Program Product For			PENDING	US
Groupon, Inc.	482990	15/280,580	9/29/2016	Predicting Web Browsing Method, Manufacture And			PENDING	US
Groupon, Inc.	100004	45 /200 200	0/20/2004	Apparatus For Facilitating On- Demand Home And Auto Services			or volve	116
Groupon, Inc.	482994	15/280,208	9/29/2016	System And Method For Object- Response Asset Authorization And Pairing			PENDING	US
	482996	15/280,220	9/29/2016	System And Method For Managing Request-To-Task Translation And			PENDING	US
Groupon, Inc.	482991	15/281,656	9/30/2016	Sequencing  Dynamic Augmenting Relevance  Rankings Using Data From External			PENDING	US
Groupon, Inc.	482993	15/281,779	9/30/2016	Ratings Sources  Mobile Device Merchant			PENDING	US
Groupon, Inc.				Availability Interface				
	483003	15/393,721	12/29/2016	Dynamic Freshness for Relevance Rankings			PENDING	US
Groupon, Inc.	483001	15/395,253	12/30/2016	Limiting Gender Inappropriate Object Results And Boosting			PENDING	US
Groupon, Inc.	483002	15/395,303	12/30/2016	Perishable Object Results Of Methods, Apparatuses, And			PENDING	US
Groupon, Inc.	100002	10,000,000		Systems For Providing An Event Evaluation Framework			. = 1.5	
Groupon, Inc.	491084	15/397,114	1/3/2017	System, Method, And Computer Program Product For Generation Of Local Content Corpus	2017-0344565		PENDING	US
Groupon, me.	494250	15/473,091	3/29/2017	Configurable And Incremental Database Migration Framework			PENDING	US
Groupon, Inc.	494252	15/474,102	3/30/2017	For Heterogeneous Databases  Methods And Systems For			PENDING	US
Groupon, Inc.	105075	45 /400 470	4/7/0047	Programmatic Control Of Transmitted Electronic Content	2010 0000500			Lug.
Groupon, Inc.	496376	15/482,179	4/7/2017	Multi-Term Query Subsumption For Document Classification	2018-0032532		PENDING	US
c. suport, me.	496048	15/489,057	4/17/2017	Exporter	2018-0068341		PENDING	US
Groupon, Inc.	503047	15/719,185	9/28/2017	Method And Apparatus For			PENDING	US
Groupon, Inc.				Facilitating A Response To A Metasearch Service Availability				
Groupon, Inc.	508097	15/840,452	12/13/2017	Apparatus And Method For Forecasted Performance Level Adjustment And Modification			PENDING	US
	508106	15/840,364	12/13/2017	Apparatus And Method For Option Data Object Performance			PENDING	US
Groupon, Inc.	507752	15/853,389	12/22/2017	Prediction And Modeling  Method, Apparatus, And Computer Program Product For			PENDING	US
Groupon, Inc.	507751	15/855,918	12/27/2017	System Resource Volume Method, Apparatus, And			PENDING	US
Groupon, Inc.				Computer Program Product For Balancing Network Resource				
	508183	15/856,707	12/28/2017	Server For Ingesting And Rendering Data Objects			PENDING	US
Groupon, Inc.				1	<u> </u>	1		

	508632	15/856,718	12/28/2017	Server For Ingesting And Updating			PENDING	US
				Renderable Data Objects From A				
Groupon, Inc.			1	Flat File Server				
	508633	15/856,771	12/28/2017	Server For Verification, Validation,			PENDING	US
				And Updating A Data Item				
Groupon, Inc.	500402	45 (050 225	12 /20 /2017	Database Containing Renderable			DENDING	LIC
	508182	15/858,335	12/29/2017	Providing Discounts To Non- Partner Merchants			PENDING	US
Groupon, Inc.				Factier Welchants				
отопроп, пс.	508631	15/921,747	3/15/2018	Method, Apparatus, And	2018-0204228		PENDING	US
	300031	13,321,747	3,13,2010	Computer Program Product For	2010 020 1220		LITERITO	
Groupon, Inc.				Identifying A Service Need Via A				
. ,	516316	16/033,928	7/12/2018	Method, Apparatus, And			PENDING	US
				Computer Program Product For				
Groupon, Inc.				Inferring Device Rendered Object				
	516318	16/033,956	7/12/2018	Method, Apparatus, And			PENDING	US
				Computer Program Product For				
Groupon, Inc.				Extending An Action Vector				
	516404	16/034,575	7/13/2018	Method, Apparatus, And			PENDING	US
				Computer Program Product For				
Groupon, Inc.		4.6.40.477.000	# /o # /o o + o	Improving Network Database				
	517966	16/047,392	7/27/2018	Structured Fine Print			PENDING	us
C								
Groupon, Inc.	517967	16/047,409	7/27/2019	System And Apparatus For			PENDING	US
	31/30/	10,047,403	7/27/2018	Automated Evaluation Of			LADING	
Groupon, Inc.			1	Compatibility Of Data Structures				
	503367	16/105,525	8/20/2018	Method, Apparatus, And			PENDING	US
			-, -,,	Computer Program Product For				
Groupon, Inc.				Machine Learning Model Lifecycle				
	518651	16/125,631	9/7/2018	Facilitating The Application Of A			PENDING	US
				Ledger To Programmatically				
Groupon, Inc.				Identify Duplicate Data Objects				
	518652	16/124,271	9/7/2018	Yield Management Through The			PENDING	US
				Classification Of Renderable Data				
Groupon, Inc.				Objects				
	518743	16/129,044	9/12/2018	Systems And Methods To	2019-0080421		PENDING	US
				Implement Point Of Sale (POS)				
Groupon, Inc.				Terminals, Process Orders And				
	518375	16/138,484	9/21/2018	Method And System For	2019-0163357		PENDING	US
C				Facilitating Consumer Interactions				
Groupon, Inc.	519854	10/100 018	10/24/2018	For Performing Purchase	2019-0158980		PENDING	US
	519854	16/169,018	10/24/2018	Method And System For Enabling The Creation And Maintenance Of	2019-0128980		PENDING	03
Groupon, Inc.				Proximity-Related User Groups				
атопроп, піс.	519855	16/175,905	10/31/2018	Method, Apparatus, And	2019-0172078		PENDING	US
	313033	10, 17 3,303	10,51,2010	Computer Program Product For	2013 0172070		LINDING	
Groupon, Inc.				Providing A Search Feedback				
	518260	16/189,325	11/13/2018	Method And Apparatus For	2019-0266635		PENDING	US
				Providing Promotion				
Groupon, Inc.				Recommendations				
	519562	16/192,197	11/15/2018	Clustering And Coranking Of Multi-			PENDING	US
				Source Location Data				
Groupon, Inc.								
	519861	16/218,830	12/13/2018	Method, Apparatus, And			PENDING	US
				Computer Program Product For				
Groupon, Inc.	E10902	16/228.485	12/20/2010	Network Data Linking And			DENIDING	LIC
	519862	16/228,485	12/20/2018	Method, Apparatus, And			PENDING	US
Groupon, Inc.			I	Computer Program Product For Adaptive Tail Digital Content				
Groupon, INC.	519863	16/228,503	12/20/2018	Method, Apparatus, And			PENDING	US
	313603	10,220,303	12,20,2016	Computer Program Product For			LADING	
Groupon, Inc.			I	Predictive Initial Electronic Bid				
	519866	16/228,519	12/20/2018	Method, System, And Apparatus			PENDING	US
		',	' '	For Programmatically Determining			-	
Groupon, Inc.			1	And Adjusting Electronic Bid				
	519867	16/228,532	12/20/2018	Method, System, And Apparatus			PENDING	US
			1	For Programmatically Determining				
Groupon, Inc.				And Adjusting Electronic Bid		 		
	519907	16/228,557	12/20/2018	Method, System, And Apparatus		 	PENDING	US
			1	For Programmatically Segmenting				
Groupon, Inc.			1	User Profiles Based Upon Platform				
	519864	16/229,300	12/21/2018	Methods And Systems For			PENDING	US
			1	Generating A Supply Index				
Groupon, Inc.	546000	40/222	40/5: /55:	Indicative Of A Quality Of			DENID.::-	Luc
	519865	16/229,304	12/21/2018	Methods And Systems For			PENDING	US
Consumer les			I	Determining A Travel Propensity				
Groupon, Inc.	522027	16/241 019	1/7/2010	Configured For Use In The	2010 0207201		DENIDING	US
	523937	16/241,618	1/7/2019	System And Method For Notification Transmission And	2019-0387381		PENDING	اران
1	1	1	1		I			1
Groupon, Inc.		1		Confirmation Management		1		

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	525267	16/251,809	1/18/2019	Based On Consumer Preferences	2019-0259064	PENDING	US
Groupon, Inc.	505054	45/254.040	1/22/2212	For Future Promotions		- I - I - I - I - I - I - I - I - I - I	116
Graupan Inc	526951	16/254,040	1/22/2019	Optical Receipt Processing		PENDING	US
Groupon, Inc.	526950	16/257,122	1/25/2019	Facilitating User Interactions Based On Proximity	2019-0297467	PENDING	US
Groupon, Inc.							
	527392	16/270,685	2/8/2019	Method, Apparatus, And Computer Program Product For	2019-0272551	PENDING	US
Groupon, Inc.	525479	16/251 225	3/12/2019	Setting A Benchmark Conversion		PENDING	US
Groupon, Inc.	525479	16/351,235	3/12/2019	Method And System For Distribution Of Application Program For Promotion And		PENDING	US
отопрот, те:	525950	16/355,114	3/15/2019	Pull-Type Searching System		PENDING	US
Groupon, Inc.							
	528861	16/392,038	4/23/2019	Method And Apparatus For Creating Web Content And		PENDING	US
Groupon, Inc.	E000E4	45/005 000	1 10 5 10 0 1 0	Identifying Advertisements For			
Groupon, Inc.	530054	16/396,228	4/26/2019	Method, Apparatus, And Computer Program Product For Predictive Dynamic Bidding Rule		PENDING	US
атойроп, піс.	528844	16/403,054	5/3/2019	Predictive Recommendation	2020-0034879	PENDING	US
Groupon, Inc.				System			
aroupon, me.	531588	16/421,669	5/24/2019	Methods And Systems For Generating A Mix-Enforced List Of		PENDING	US
Groupon, Inc.				Items Utilizing Maximal Marginal			
	532996	16/510,373	7/12/2019	Method, Apparatus And Computer Program Product For Improving		PENDING	US
Groupon, Inc.	533037	16/510,347	7/12/2019	Dynamic Retry Of Resource  Method, Apparatus And Computer		PENDING	US
Groupon, Inc.				Program Product For Real-Time Circuit Breaker In Server Resource			
er oupon, mer	531273	16/519,710	7/23/2019	Systems, Apparatus, And Methods		PENDING	US
Groupon, Inc.				Of Programmatically Determining Unique Contacts Based On			
	535116	16/526,395	7/30/2019	Apparatus And Method For Data Object Generation And Control		PENDING	US
Groupon, Inc.							
Groupon, Inc.	533159	16/555,892	8/29/2019	Systems and Methods For Providing Dimensional Promotional Offers		PENDING	US
aroupon, me.	536524	16/555,186	8/29/2019	Systems And Methods For Providing Shared Promotion		PENDING	US
Groupon, Inc.				Redemptions			
Graupan Inc	529499	16/566,684	9/10/2019	Multi-Application Interactive Support And Communication Interface		PENDING	US
Groupon, Inc.	533855	16/572,685	9/17/2019	Generic Message Injection System		PENDING	US
Groupon, Inc.							
	538120	16/659,751	10/22/2019	Incentivizing Sharing In Social Networks		PENDING	US
Groupon, Inc.				Networks			
	538294	16/661,476	10/23/2019	Automated Deal Guide Structure Identification		PENDING	US
Groupon, Inc.	531400	16/667,141	10/29/2019	Machine Learning Systems		PENDING	US
Groupon, Inc.				Architectures For Ranking			
этопроп, піс.	539648	16/667,385	10/29/2019	Mobile Device Merchant Availability Interface		PENDING	US
Groupon, Inc.	539755	16/682,527	11/13/2019	System And Method For		PENDING	US
Groupon, Inc.	339733	10/002,32/	11, 13, 2013	Incentives		FEINDING	
	540453	16/683,788	11/14/2019	Visitor Detection Unit And		PENDING	US
Groupon, Inc.				Identification System			
	536756	16/701,992	12/3/2019	Method And System For Determining Location Of Mobile		PENDING	US
Groupon, Inc.	F 42.22=	16/707 700	12/0/20: "	Device			ue
	541417	16/707,706	12/9/2019	Apparatus And Method For Distance-Based Option Data Object Filtering And Modification		PENDING	US
Groupon Inc							
Groupon, Inc.	533409	16/710,019	12/11/2019	Location Based Discovery Of Real- Time Merchant Device Activity		PENDING	US

	538583	16/710,520	12/11/2019	Systems And Methods For	PENDING	US
Groupon, Inc.				Providing Streamlined Multiple Item Transactions		
атопроп, піс.	541818	16/710,415	12/11/2019	Determining Locations Of Interest	PENDING	US
		, /, /		Based On User Visits		
Groupon, Inc.						
	542070	16/722,915	12/20/2019	Apparatuses, Methods, And	PENDING	US
C				Computer Program Products For		
Groupon, Inc.	542228	16/726,436	12/24/2019	Crediting Value To A Third-Party Seamless Promotion Redemption	PENDING	US
	3 12223	10,720,130	12,21,2013	Scarriess Fromotion Reachiption	T ENDING	03
Groupon, Inc.						
	541253	16/733,138	1/2/2020	Method And Apparatus For	PENDING	US
				Managing Item Inventories		
Groupon, Inc.	542064	16/734,723	1/6/2020	Automated Deal Guide	PENDING	US
	342004	10/734,723	1/6/2020	Optimization	FENDING	03
Groupon, Inc.				'		
	542065	16/734,770	1/6/2020	Rewards Program	PENDING	US
Groupon, Inc.	E 42000	16/724 811	1/6/2020	Nachad Assessing And	DENDING	LIC
	542066	16/734,811	1/6/2020	Method, Apparatus, And Computer Program Product For	PENDING	US
Groupon, Inc.				Determining A Provider Return		
. ,	542067	16/734,852	1/6/2020	Systems And Methods For	PENDING	US
				Providing Promotion Sharing		
Groupon, Inc.				Among Consumers		
	543503	16/774,639	1/28/2020	System And Method For Providing	PENDING	US
Groupon, Inc.				Content To Users Based On Interactions By Similar Other		
стоироп, пс.	543490	16/776,944	1/30/2020	Prescient And Adaptive Point-Of-	PENDING	US
		, ,	-,,	Sale Systems		
Groupon, Inc.						
	543819	16/784,104	2/6/2020	Predictive Recommendation	PENDING	US
C !				System Using Tiered Feature Data		
Groupon, Inc.	544151	16/792,760	2/17/2020	Facilitating End-To-End Encryption	PENDING	US
	344131	10/792,700	2/17/2020	For E-Commerce	FENDING	03
Groupon, Inc.						
	544695	16/803,120	2/27/2020	Method And Apparatus For Return	PENDING	US
				On Investment Impact Reporting		
Groupon, Inc.	F24004	16/005 242	2/20/2020	Determine Termine I Notice de	DENDING	LIC
	534884	16/805,343	2/28/2020	Determing Transactional Networks Using Transactional Data	PENDING	US
Groupon, Inc.						
	542605	16/804,788	2/28/2020	Graph-Based Compression Of Data	PENDING	US
				Records		
Groupon, Inc.	544004	45/005 050	2/20/2020	0000	DENDING.	116
	544034	16/805,350	2/28/2020	Offline Location-Based Consumer Metrics Using Online Signals	PENDING	US
Groupon, Inc.				The cries osing online signals		
	545205	16/809,285	3/4/2020	Automatic Selection Of High	PENDING	US
				Quality Training Data Using An		
Groupon, Inc.		15/010 051	0 14 0 10 00 0	Adaptive Oracle-Trained Learning		
	545207	16/813,954	3/10/2020	Presence Detection Based On Crowd Surfing Signal Strength	PENDING	US
Groupon, Inc.				Crowd Surring Signal Strength		
	544470	16/816,072	3/11/2020	Systems And Methods For	PENDING	US
				Programmatically Grouping		
Groupon, Inc.				Consumers		
	545203	16/815,104	3/11/2020	Dynamic Awarding Of Prizes In Chance-Based Contests	PENDING	US
Groupon, Inc.				Criance-based Contests		
стоироп, пк.	545608	16/820,012	3/16/2020	Method, Apparatus, And	PENDING	US
			1	Computer Program Product For		
Groupon, Inc.				Calculating Profit For A Promotion		
	545847	16/821,616	3/17/2020	Communication Beacon Based	PENDING	US
Groupon Inc				Promotions For Mobile Devices		
Groupon, Inc.	545206	16/828,595	3/24/2020	Interactive Virtual Reality System	PENDING	US
		,,	-,,	The state of the s	, Ensire	
Groupon, Inc.						
	542268	16/833,002	3/27/2020	Managing Merchant	PENDING	US
				Communications		
Groupon, Inc.	546528	16/832,696	3/27/2020	Dynamically Optimizing A Data Set	PENDING	US
	معددات	10/032,030	3,27,2020	Distribution	PENDING	3
Groupon, Inc.						
	545208	16/837,738	4/1/2020	Wearable Device That Is	PENDING	US
				Automatically Configurable		
Groupon, Inc.				Between Wearer Facing And		

Groupon, Inc.	545968	16/844,055	4/9/2020	Generating Promotion Offers And Providing Analytics Data		PENDING	us
агоироп, пс.	546838	16/844,454	4/9/2020	Method And Apparatus For Promotion Template Generation		PENDING	US
Groupon, Inc.	546263	16/845,617	4/10/2020	Method, Apparatus, And Computer Program Product For		PENDING	US
Groupon, Inc.	547157	16/845,869	4/10/2020	Predicting Web Browsing Method And Apparatus For		PENDING	US
Groupon, Inc.	545689	16/848,025	4/14/2020	Implementing A Search Index Generator Method, Apparatus, And		PENDING	US
Groupon, Inc.	343089	10/848,023	4/14/2020	Computer Readable Medium For Group Gifting In A Randomized		FENDING	03
Groupon, Inc.	546264	16/848,479	4/14/2020	Facilitating User Interactions Based On Proximity		PENDING	us
стоироп, пте.	547235	16/849,751	4/15/2020	Method, Apparatus, And Computer Program Product For		PENDING	US
Groupon, Inc.	547591	16/854,434	4/21/2020	Providing A User Platform For A  Apparatus, System, And Method For Providing Simultaneous		PENDING	US
Groupon, Inc.	542413	16/855,756	4/22/2020	Delivery Of Output  Verification Of Redemption Of An		PENDING	US
Groupon, Inc.	546262	16/855,739	4/22/2020	Electronic Offer  Merchant Deal Creation And		PENDING	US
Groupon, Inc.				Redemption System			
Groupon, Inc.	547244	16/855,778	4/22/2020	Method, Apparatus, And Computer Program Product For Forecasting Demand		PENDING	US
Groupon, Inc.	546292	16/857,940	4/24/2020	Method, Apparatus, And Computer Program Product For Offering And Processing		PENDING	US
отоироп, пс.	547673	16/859,612	4/27/2020	Method, Apparatus, And Computer Program Product For		PENDING	US
Groupon, Inc.	547781	16/859,466	4/27/2020	Classifying User Search Data Systems And Methods For Consumer Defined Promotion		PENDING	US
Groupon, Inc.	547676	16/860,759	4/28/2020	Bundling Method, Apparatus, And		PENDING	US
Groupon, Inc.	547830	16/862,041	4/29/2020	Computer Program Product For Lead Assignment  Consumer Device Based Point-Of-		PENDING	US
Groupon, Inc.				Sale			
Groupon, Inc.	542414	16/867,018	5/5/2020	Embedded Storefront		PENDING	us
	547674	16/866,614	5/5/2020	Method, Apparatus, And Computer Program Product For		PENDING	us
Groupon, Inc.	547675	16/868,406	5/6/2020	Forecasting Demand Using Real System For Generating And Qualifying Deal Promotions In An		PENDING	US
Groupon, Inc.	547245	16/869,439	5/7/2020	Internet Marketplace Performing Predictive Inferences Using Multiple Predictive Models		PENDING	US
Groupon, Inc.	548030	16/870,535	5/8/2020	Methods And Systems For		PENDING	us
Groupon, Inc.	548284	16/872,495	5/12/2020	Detecting Aggregation Events  Method, Apparatus, And		PENDING	us
Groupon, Inc.				Computer Program Product For Providing A Dashboard			
Groupon, Inc.	548285	15/930,635	5/13/2020	Email Suggestor System		PENDING	US
Groupon, Inc.	548188	16/875,138	5/15/2020	Method, Apparatus, And Computer Program Product For Consumer Tracking		PENDING	US
	548267	16/878,197	5/19/2020	Method And Apparatus For Providing Promotion		PENDING	US
Groupon, Inc.	548415	16/879,330	5/20/2020	Recommendations Generating Optimized In-Channel And Cross-Channel Promotion		PENDING	US
Groupon, Inc.	548755	16/882,846	5/26/2020	Recommendations Using Free System And Method For		PENDING	US
Groupon, Inc.				Generating Purchase Recommendations Based On			

	548286	16/884,828	5/27/2020	Method, Apparatus, And			F	PENDING	US
				Computer Program Product For					
Groupon, Inc.				Calculating A Supply Based On					
	548611	16/884,259	5/27/2020	Method And Apparatus For			F	PENDING	US
				Facilitating Meta Search Proxy					
Groupon, Inc.				Bidding					
	548807	16/884,855	5/27/2020	Predictive Recommendation			F	PENDING	US
				System Using Tiered Feature Data					
Groupon, Inc.									
	548952	16/887,972	5/29/2020	System And Method For			F	PENDING	US
				Generating Purchase					
Groupon, Inc.				Recommendations Based On					
	548609	16/891,743	6/3/2020	Online Ordering For In-Shop			F	PENDING	US
				Service					
Groupon, Inc.									
' '	548189	16/892,979	6/4/2020	Method, System And Apparatus			F	PENDING	US
			1	For Programmatically Generating					
Groupon, Inc.				A Channel Incrementality Ratio					
	549148	16/895,317	6/8/2020	Configurable Relevance Service			F	PENDING	US
	0.02.0	10,000,000	3, 3, 2525	Test Platform			ľ		
Groupon, Inc.				reserration					
отопроп, піс.	549112	16/898,568	6/11/2020	Mothed Apparatus And			-	PENDING	US
	349112	10/030,300	0/11/2020	Method, Apparatus, And				ENDING	03
C I				Computer Program Product For Sales Pipeline Automation					
Groupon, Inc.	540540	45/004 450	5/47/2020	<u>'</u>					Lie
	549642	16/904,152	6/17/2020	Method And Apparatus Using				PENDING	US
	1		1	Context To Determine Consumer					
Groupon, Inc.		40.000	s la c la se	Deals					116
	549888	16/910,290	6/24/2020	Multi-Term Query Subsumption			Į F	PENDING	US
	1		1	For Document Classification					
Groupon, Inc.									
	549930	16/946,499	6/24/2020	Systems, Apparatus, And Methods			F	PENDING	US
				Of Providing Promotions Based On					
Groupon, Inc.				Consumer Request					
	550182	16/910,620	6/24/2020	Systems And Methods For			F	PENDING	US
				Providing Group Promotions					
Groupon, Inc.									
	550183	16/913,035	6/26/2020	Hybrid Data Integration Platform			F	PENDING	US
Groupon, Inc.									
	550274	16/915,098	6/29/2020	Generating Optimized In-Channel			F	PENDING	US
				And Cross-Channel Promotion					
Groupon, Inc.				Recommendations Using Free					
	488863	12/393,795	2/26/2009	Generating And Presenting	2009-0228335		F	PUBLISHED	US
			1,,	Targeted Advertisements					
Groupon, Inc.				Including Representations Of					
стоироп, пс.	426791	13/616,565	9/14/2012	System And Methods For Discount	2013-0185128		-	PUBLISHED	US
	120731	13,010,303	3,11,2012	Retailing	2013 0103120		ľ	OBLISHED	
Groupon, Inc.				The control of					
стоироп, те.	428883	13/752,088	1/28/2013	Transaction Processing System	2013-0197980			PUBLISHED	US
	428883	13,732,000	1,20,2013	Transaction Processing System	2013-0137380		ľ	OBLISHED	03
C l									
Groupon, Inc.	436063	12/706 020	3/6/2013	Mothed Apparetus And	2014-0257945		-	DUBLICUED	US
	426962	13/786,828	3/6/2013	Method, Apparatus, And	2014-0257945			PUBLISHED	US
C				Computer Readable Medium For					
Groupon, Inc.	100011	40/044 047	0.14 5.10 04 0	Transferring Of Promotions	2011 2015				110
	428911	13/841,347	3/15/2013	Unified Payment And Return On	2014-0046757			PUBLISHED	US
	1		1	Investment System					
Groupon, Inc.	424200	12/004 227	1/15/2011	NA-sh-d A-d Common 7 C P	2014 01224=1			OLIDITICUES	luc
	434208	13/991,807	1/15/2014	Method And System For Credit	2014-0122171		F	PUBLISHED	US
	1		1	Card Holder Identification					1
Groupon, Inc.	1		1						
	468182	14778607.3	3/6/2014	Consumer Device Based Point-Of-	2973322		F	PUBLISHED	EP
	1		1	Sale					
Groupon, Inc.									1
	452900	14/527,189	10/29/2014	Systems And Methods For	2015-0127435		F	PUBLISHED	US
	1		1	Discount Retailing					1
Groupon, Inc.									
	481855	15739857.9	1/27/2015	Learning User Interface	3100150		F	PUBLISHED	EP
	1		1						
Groupon, Inc.									
	457020	14/626,384	2/19/2015	Method And System For Use Of	2015-0242859		F	PUBLISHED	US
	1		1	Biometric Information Associated					
Groupon, Inc.	1		1	With Consumer Interactions					1
Croupon, mc.	402266	15751378.9	2/20/2015	Method And System For Adjusting	3108433	1	F	PUBLISHED	EP
стоироп, пе.	482266		1	Item Relevance Based On					1
Croupon, me.	482266	1			I				
	482266			Consumer Interactions					
Groupon, Inc.		15763415 5	8/11/2015	Consumer Interactions Method, Apparatus, And	3180688		E	PUBLISHED	EP
	492456	15763415.5	8/11/2015	Method, Apparatus, And	3180688		F	PUBLISHED	EP
Groupon, Inc.		15763415.5	8/11/2015	Method, Apparatus, And Computer Program Product For	3180688		F	PUBLISHED	EP
Groupon, Inc.	492456			Method, Apparatus, And Computer Program Product For Controlling Content Distribution					
Groupon, Inc.		15763415.5 14/836,356	8/11/2015 8/26/2015	Method, Apparatus, And Computer Program Product For Controlling Content Distribution Method And Apparatus For	3180688 2016-0063608			PUBLISHED	EP US
	492456			Method, Apparatus, And Computer Program Product For Controlling Content Distribution					

Groupen In-	493782	15835367.2	8/26/2015	Method And Apparatus For Electronic Transactions Based On A Reply Message	3186764	PUBLISHED	EP
Groupon, Inc.	471438	14/935,857	11/9/2015		2016-0071066	PUBLISHED	US
Groupon, Inc.	4/1436	14/955,657	11/9/2015	Method, Apparatus, And Computer Program Product For Scheduling Appointments With	2016-0071066	POBLISHED	US
	471171	14/944,933	11/18/2015	Method For Testing Mobile Application And Associated	2016-0147644	PUBLISHED	US
Groupon, Inc.				Apparatus And System			
Groupon, Inc.	488867	15/016,913	2/5/2016	Systems And Methods To Implement Point Of Sale (POS) Terminals, Process Orders And	2016-0155108	PUBLISHED	US
Groupon, mc.	475644	15/018,011	2/8/2016	Method, Apparatus, And	2016-0155144	PUBLISHED	US
Groupon, Inc.				Computer Program Product For Performing A Rules-Based			
	507098	16804078.0	5/26/2016	Mobile Search	3304280	PUBLISHED	EP
Groupon, Inc.	475728	15/167,604	5/27/2016	Mobile Search	2016-0350365	PUBLISHED	US
Groupon, Inc.							
	475800	15/191,348	6/23/2016	Mobile Chat Application Integration With Promotional	2016-0379269	PUBLISHED	US
Groupon, Inc.	507697	16815327.8	6/23/2016	Systems  Mobile Chat Application Integration With Promotional	3314563	PUBLISHED	EP
Groupon, Inc.	482917	15/226,827	8/2/2016	Systems  Deal Scoring System And Method	2017-0132654	PUBLISHED	US
Groupon, Inc.							
Groupon, Inc.	483006	15/383,921	12/19/2016	Gift Card Transfer Security	2017-0193503	PUBLISHED	US
Groupon, mc.	495955	15/489,059	4/17/2017	Sentiment Extraction From	2017-0221128	PUBLISHED	US
Groupon, Inc.				Consumer Reviews For Providing Product Recommendations			
	496831	15/496,224	4/25/2017	Learning User Interface	2017-0308270	PUBLISHED	US
Groupon, Inc.							
	500349	15/659,138	7/25/2017	Method And System For Programmatic Analysis Of	2018-0174203	PUBLISHED	US
Groupon, Inc.	497247	15/667.666	8/2/2017	Consumer Reviews	2018-0046925	PUBLISHED	US
Groupon, Inc.	497247	15/667,666	8/3/2017	Method, Apparatus, And Computer Program Product For Determining Closing Metrics	2018-0046925	POBLISHED	US
	502755	15/677,369	8/15/2017	Learning User Interface	2018-0059906	PUBLISHED	US
Groupon, Inc.	503050	15/711,264	9/21/2017	Mobile Service Applications	2018-0081693	PUBLISHED	US
Groupon, Inc.	303030	13,711,204	3,21,201,	Woolie Service Applications	2010 0001033	T OBLISHED	
	529061	17852524.2	9/22/2017	Mobile Service Applications	3516503	PUBLISHED	EP
Groupon, Inc.	505617	15/784,015	10/13/2017	Consumer Device Based Point-Of-	2018-0276634	PUBLISHED	US
Groupon, Inc.	20301/	13//04,013	10/13/201/	Sale	2010-02/0034	, OBCONED	53
	492843	15/847,442	12/19/2017	GPS Determined Location Based	2018-0174130	PUBLISHED	US
Groupon, Inc.			10.70	Access To Linked Information And Delivery Thereof			
Groupon, Inc.	507623	15/847,482	12/19/2017	Methods And Systems For Detecting Geographic Areas Having Elevated Supply and	2018-0174189	PUBLISHED	US
c. oupon, mc.	529821	17829709.9	12/19/2017	GPS Determined Location Based Access To Linked Information And	3555835	PUBLISHED	EP
Groupon, Inc.	529920	17829310.6	12/19/2017	Delivery Thereof Methods And Systems For	3555834	PUBLISHED	EP
Groupon, Inc.	509864	15/880,987	1/26/2018	Detecting Geographic Areas Having Elevated Supply And Promotion Redemption And	2019-0012661	PUBLISHED	US
Groupon, Inc.	303664	13/000,30/	1,20,2010	Payment Gateway	2013-0012001	, JOHNSTED	
	510606	15/904,791	2/26/2018	Implicitly Associating Metadata Using User Behavior	2018-0247337	PUBLISHED	US
Groupon, Inc.	491522	15/05/19/7	4/17/2019	Mothed Apparatus And	2019 0265720	DIIDIICUED	US
Groupon, Inc.	491533	15/954,847	4/17/2018	Method, Apparatus, And Computer Readable Medium For Providing A Self-Service Interface	2018-0365739	PUBLISHED	US
,,	514798	15/978,453	5/14/2018	Learning User Interface	2018-0364889	PUBLISHED	US
Groupon, Inc.							

	514448	16/026,289	7/3/2018	Dynamic Customized Electronic	2019-0020611	PUBLISHED	US
				Message Content Generation			
Groupon, Inc.							
	519564	16/121,751	9/5/2018	Systems And Methods For	2019-0180347	PUBLISHED	US
L .				Providing Multiple Items To			
Groupon, Inc.	540044	46/422 247	0/5/2040	Consumers	2040 0420000	BUBUSUED	116
	519844	16/122,247	9/5/2018	Computer System And Computer- Executed Method For Inventory	2019-0139060	PUBLISHED	US
Groupon, Inc.				Valuation			
агоироп, пк.	518120	16/127,341	9/11/2018	Method, Apparatus, And	2019-0095980	PUBLISHED	US
	310120	10,127,311	3,11,2010	Computer Readable Medium For	2013 0033300	1 00031120	
Groupon, Inc.				Providing A Digital Unwrapping			
	519566	16/129,992	9/13/2018	Method And Apparatus For	2019-0012324	PUBLISHED	US
				Identifying Related Records			
Groupon, Inc.							
	519565	16/133,835	9/18/2018	Systems And Methods For	2019-0172033	PUBLISHED	US
				Providing Consumer Facing Point-			
Groupon, Inc.				Of-Sale Interfaces			
	484518	16/139,944	9/24/2018	Transaction Processing System	2019-0026763	PUBLISHED	US
Groupon, Inc.		46/454 500	10/1/0010		2015 0005010		
	518119	16/151,503	10/4/2018	System For Marketing Campaign	2019-0205913	PUBLISHED	US
Croupon Inc				Specification And Secure Digital Coupon Redemption			
Groupon, Inc.	518742	16/154,089	10/8/2018	Deal Allocation Platform	2019-0213642	PUBLISHED	US
	310/42	10/134,069	10/8/2018	Dear Allocation Flatform	2019-0213042	FOBLISHED	03
Groupon, Inc.							
5. 22.port, me.	518802	16/154,757	10/9/2018	Electronically Referring A Contact	2019-0215292	PUBLISHED	US
		,,	,-,	Without Divulging Contact Data			
Groupon, Inc.							
· ·	519859	16/180,674	11/5/2018	Method And System For Adjusting	2019-0243537	PUBLISHED	US
				Item Relevance Based On			
Groupon, Inc.				Consumer Interactions			
	524359	16/196,918	11/20/2018	Consumer Device Payment Token	2019-0295066	PUBLISHED	US
				Management			
Groupon, Inc.							
	525222	16/212,019	12/6/2018	Centralized, Scalable, Resource	2019-0296994	PUBLISHED	US
				Monitoring System			
Groupon, Inc.							
	525258	16/217,087	12/12/2018	Method And Apparatus For	2019-0279258	PUBLISHED	US
				Determining Promotion Pricing			
Groupon, Inc.	F2202F	46/225 442	42/40/2040	Parameters	2010 0207121	DUBUGUED	US
	523935	16/225,143	12/19/2018	Inbox Management System	2019-0287131	PUBLISHED	05
Groupon, Inc.							
агоироп, пк.	525263	16/238,473	1/2/2019	Predictive Recommendation	2019-0279253	PUBLISHED	US
	323203	10,230,173	1,2,2013	System Using Price Boosting	2013 0273233	1 000031120	
Groupon, Inc.				-,			
	525264	16/238,476	1/2/2019	Predictive Recommendation	2019-0279254	PUBLISHED	US
				System Using Absolute Relevance			
Groupon, Inc.							
	526166	16/238,241	1/2/2019	Facilitating Reward Program For	2019-0279245	PUBLISHED	US
				Consumer Transactions And			
Groupon, Inc.				Redemptions Of Deal Offers			
	526395	16/238,468	1/2/2019	Predictive Recommendation	2019-0318390	PUBLISHED	US
				System Using Contextual			
Groupon, Inc.	E2C204	16/245 254	1/11/2010	Relevance	2010 0140500	DUDUGUED	LIC
	526394	16/245,354	1/11/2019	Method, Apparatus, And Computer Program Product For	2019-0149588	PUBLISHED	US
Groupon, Inc.				Controlling Content Distribution			
Groupon, inc.	526634	16/249,058	1/16/2019	Automated Deal Guide User	2019-0318384	PUBLISHED	US
	320034	10,243,036	1, 10, 2013	Interface	2013-0310304	LOBEISHED	
Groupon, Inc.							
S. Supon, mc.	523938	16/257,335	1/25/2019	Interactive Personalized Graphical	2019-0324627	PUBLISHED	US
		,,	1, , , , , , ,	Feedback Overlay			
Groupon, Inc.				· · · · · · · · · · · · · · · · · · ·			
. ,	527492	16/264,177	1/31/2019	Consumer Presence Based Deal	2019-0370861	PUBLISHED	US
				Offers			
Groupon, Inc.							
	527391	16/265,087	2/1/2019	Method For Determining Provider	2019-0303979	PUBLISHED	US
				Parameters Including A Provider			
Groupon, Inc.			1	Margin			
	527393	16/270,722	2/8/2019	System, Apparatus, And Method	2019-0278834	PUBLISHED	US
				For Page Composition			
Groupon, Inc.			1	1			
	528023	16/279,731	2/19/2019	Automated Adaptive Data Analysis	2019-0258954	PUBLISHED	us
<u>.</u>				Using Dynamic Data Quality			
Groupon, Inc.	E27802	16/204 046	2/25/2010	Assessment	2010 0211402	DUDUGUED	LIC
	527892	16/284,016	2/25/2019	Fine Print Builder	2019-0311408	PUBLISHED	US
Groupon, Inc.				1	<u> </u>		

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	527893	16/295,036	3/7/2019	Method, Apparatus, System, And	2019-0279249	PUBLISHED	US
				Computer Program Product For			
Groupon, Inc.				Selecting An Image Associated			
	528938	16/295,506	3/7/2019	System And Method For Error	2020-0042374	PUBLISHED	US
				Detection And Monitoring Of			
Groupon, Inc.				Object-Asset Pairs			
	527895	16/352,908	3/14/2019	Customized Deal Generation	2019-0303958	PUBLISHED	US
Groupon, Inc.							
	528798	16/371,199	4/1/2019	Learning User Interface	2019-0391727	PUBLISHED	US
		' '	1 '				
Groupon, Inc.							
<del></del>	527054	16/380,526	4/10/2019	Deal Generation Using Point-Of-	2019-0370864	PUBLISHED	US
		,,	,,	Sale Systems And Related			
Groupon, Inc.				Methods			
атоироп, пс.	528845	16/386,483	4/17/2019	Method, Apparatus, And	2019-0318393	PUBLISHED	us
	320043	10,500,405	7,17,2015	Computer Readable Medium For	2013 0310333	1 OBLISTIED	03
Groupon, Inc.				Providing A Self-Service Interface			
стоироп, п.с.	528855	16/394,659	4/25/2019	-	2020-0019951	PUBLISHED	US
	320033	10/394,039	4/23/2019	reer-10-reer rayment Processing	2020-0019931	PUBLISHED	03
Groupon, Inc.		4.5.10.000.000	1/00/0010		2010 0055010		110
	528857	16/397,333	4/29/2019	Cadence Management System For	2019-0355013	PUBLISHED	US
				Consumer Promotions			
Groupon, Inc.			1	4		1	1
	527035	16/401,509	5/2/2019	Method, Apparatus, And	2019-0259053	PUBLISHED	US
			1	Computer Program Products For			
Groupon, Inc.				Providing Real Time Incentives		1	1
	501912	16/411,177	5/14/2019	System, Method, And Computer	2020-0004797	PUBLISHED	US
				Program Product For Automated	[		
Groupon, Inc.				Discovery, Curation and Editing Of			1
	528865	16/417,949	5/21/2019	Method, Apparatus, And	2019-0340430	PUBLISHED	US
				Computer Program Product For	[		
Groupon, Inc.				Classification Of Documents			
	528985	16/418,232	5/21/2019	Curating Training Data For	2020-0012963	PUBLISHED	US
				Incremental Re-Training Of A			
Groupon, Inc.				Predictive Model			
	528986	16/418,267	5/21/2019	Dynamic Clustering For Streaming	2020-0050614	PUBLISHED	US
		,,	-,,	Data			
Groupon, Inc.							
атоироп, пе.	528864	16/419,091	5/22/2019	Automated Approval Of	2019-0347688	PUBLISHED	US
	320004	10,413,031	3,22,2013	Generated Promotions	2013-0347088	r Oblished	03
Groupon Inc				deficiated i follotions			
Groupon, Inc.	528846	16/420 470	F /22 /2010	NA-+bd	2019-0347700	PUBLISHED	US
	528846	16/420,478	5/23/2019	Method, Apparatus, And	2019-0347700	PUBLISHED	US
				Computer Program Product For			
Groupon, Inc.	E2004#	45/407 000	E (04 (0040	Calculating A Provider Quality	2020 0007440		110
	528847	16/427,380	5/31/2019	Dynamic Promotion Analytics	2020-0027119	PUBLISHED	US
Groupon, Inc.				<u> </u>			
	528860	16/432,167	6/5/2019	Obfuscation Of Email Addresses	2019-0288987	PUBLISHED	US
Groupon, Inc.							
	529294	16/433,762	6/6/2019	Automated Dynamic Data Quality	2020-0027018	PUBLISHED	US
				Assessment			
Groupon, Inc.						ļ	1
	532750	16/433,570	6/6/2019	System, Method, Apparatus, And	2019-0361817	PUBLISHED	US
				Computer Program Product For	[		
Groupon, Inc.				Providing A Cache Mechanism			
	531401	16/434,757	6/7/2019	Method And Apparatus For	2019-0378163	PUBLISHED	US
				Clustering Platform Sessions And	[		
Groupon, Inc.				User Accounts Associated With		<u> </u>	<u> </u>
	532752	16/437,111	6/11/2019	Promotion System For	2020-0005352	PUBLISHED	US
				Determining And Correcting For	[		
Groupon, Inc.				Insufficiency Of Promotion Data			
	532349	16/439,073	6/12/2019	Mobile Visual Locator	2020-0034883	PUBLISHED	US
			1				
				1	i l	1	1
Groupon, Inc.							
Groupon, Inc.	532754	16/451,254	6/25/2019	Facilitating Consumer Payments	2020-0051107	PUBLISHED	US
Groupon, Inc.	532754	16/451,254	6/25/2019	Facilitating Consumer Payments And Redemptions Of Deal Offers	2020-0051107	PUBLISHED	US
	532754	16/451,254	6/25/2019		2020-0051107	PUBLISHED	US
Groupon, Inc.				And Redemptions Of Deal Offers		PUBLISHED PUBLISHED	US
	532754	16/451,254 16/455,042	6/25/2019				
Groupon, Inc.				And Redemptions Of Deal Offers			
	533783	16/455,042	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages	2020-0100052	PUBLISHED	US
Groupon, Inc.				And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On	2020-0100052		
Groupon, Inc. Groupon, Inc.	533783	16/455,042	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages	2020-0100052	PUBLISHED	US
Groupon, Inc.	533783	16/455,042 16/459,679	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations	2020-0100052 2020-0034895	PUBLISHED PUBLISHED	US
Groupon, Inc. Groupon, Inc.	533783	16/455,042	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations  Method, System, And Apparatus	2020-0100052 2020-0034895 2020-0012668	PUBLISHED	US
Groupon, Inc. Groupon, Inc. Groupon, Inc.	533783	16/455,042 16/459,679	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations  Method, System, And Apparatus For Rapid Geographic Search In An	2020-0100052 2020-0034895 2020-0012668	PUBLISHED PUBLISHED	US
Groupon, Inc. Groupon, Inc.	533783 533798 534008	16/455,042 16/459,679 16/502,729	6/27/2019 7/2/2019 7/3/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations  Method, System, And Apparatus For Rapid Geographic Search In An Actor-Based Geographic Search	2020-0100052 2020-0034895 2020-0012668	PUBLISHED PUBLISHED PUBLISHED	US US
Groupon, Inc. Groupon, Inc. Groupon, Inc.	533783	16/455,042 16/459,679	6/27/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations  Method, System, And Apparatus For Rapid Geographic Search In An Actor-Based Geographic Search Method And Apparatus For	2020-0100052 2020-0034895 2020-0012668	PUBLISHED PUBLISHED	US
Groupon, Inc. Groupon, Inc. Groupon, Inc.	533783 533798 534008	16/455,042 16/459,679 16/502,729	6/27/2019 7/2/2019 7/3/2019	And Redemptions Of Deal Offers  Mobile Proximity Based Messages  Pay-For-Visit Advertising Based On Visits To Physical Locations  Method, System, And Apparatus For Rapid Geographic Search In An Actor-Based Geographic Search	2020-0100052 2020-0034895 2020-0012668	PUBLISHED PUBLISHED PUBLISHED	US US

	I canne c	10/511 045	7/15/2010	[80-44-4 0 0-4	2020 0050617		DUDUGUED	Lie
	533856	16/511,045	7/15/2019	Method, Apparatus, And	2020-0050617		PUBLISHED	US
				Computer Program Product For				
Groupon, Inc.				Classification And Tagging Of				
	532191	16/535,596	8/8/2019	Method, Apparatus, And	2019-0362380		PUBLISHED	US
				Computer Program Product For				
Groupon, Inc.				Automated Approval of A				
	532192	16/536,350	8/9/2019	Method, Apparatus, And	2019-0362375		PUBLISHED	US
				Computer Program Product For				
Groupon, Inc.				Auto-Replenishing An Inventory O	f I			
' '	534859	16/542,349	8/16/2019	Method, Apparatus, And	2020-0042151		PUBLISHED	US
		,,	-,,	Computer Program Product For				
Groupon, Inc.				Facilitating The Playback Of				
Groupon, mc.	534883	16/545,412	8/20/2019	- '	2020-0051119	+	DUBLICUED	US
	534883	16/545,412	8/20/2019	Reimpression Promotion System	2020-0051119		PUBLISHED	US
Groupon, Inc.								
	536018	16/547,340	8/21/2019	Processing Dynamic Data Within	2019-0378044		PUBLISHED	US
				An Adaptive Oracle-Trained				
Groupon, Inc.				Learning System Using Curated				
	535112	16/551,953	8/27/2019	Facilitating Online Transactions	2020-0058058		PUBLISHED	US
		· ·						
Groupon, Inc.								
	536275	16/552,531	8/27/2019	Apparatus And Method For	2020-0090187		PUBLISHED	US
1	15552/5	10,002,001	0,2,,2013	Enhanced Message Targeting			. 00231120	33
				Etitiaticed Message Targeting				
Groupon, Inc.	<del></del>							
	533187	16/566,658	9/10/2019	Systems And Methods For	2020-0081934		PUBLISHED	US
				Optimizing A Webpage Based On				
Groupon, Inc.				Historical And Semantic				
	537819	16/574,762	9/18/2019	Method, Apparatus, And	2020-0082418		PUBLISHED	US
				Computer Program Product For				
Groupon, Inc.				Providing Mobile Location Based				
	534137	16/576,984	9/20/2019	Method And System For A	2020-0125250		PUBLISHED	US
		,	-,,	Predefined Suite Of Consumer				
Groupon, Inc.				Interactions For Initiating				
Groupon, mc.	537897	16/579,716	9/23/2019	Enforcing Diversity In Ranked	2020-0162531		PUBLISHED	US
	53/89/	16/5/9,/16	9/23/2019		2020-0162531		PUBLISHED	US
L .				Relevance Results Returned From				
Groupon, Inc.				A Universal Relevance Service				
	538292	16/587,085	9/30/2019	Deal Program Life Cycle	2020-0202385		PUBLISHED	US
Groupon, Inc.								
	539169	16/660,517	10/22/2019	Discovery Of New Business	2020-0160358		PUBLISHED	US
				Openings Using Web Content				
Groupon, Inc.				Analysis				
	538712	16/661,642	10/23/2019	Employee Profile For Customer	2020-0202398		PUBLISHED	US
	350711	10,001,012	10,23,2013	Assignment, Analytics And Tip	2020 0202330		T ODEISTIED	
Croupon Inc				Payments				
Groupon, Inc.		4.0.40=0.040	10/01/0010		2020 04 40 420			110
	539550	16/670,948	10/31/2019	Real-Time Predictive	2020-0143429		PUBLISHED	US
				Recommendation System Using				
Groupon, Inc.				Per-Set Optimization				
1	539756	16/671,774	11/1/2019	Location Based Advertising	2020-0065861		PUBLISHED	US
				Systems			1	
Groupon, Inc.								
	540108	16/682,031	11/13/2019	Apparatus And Method For	2020-0184506		PUBLISHED	US
			' '	Utilizing Immediate Gratification				
Groupon, Inc.				Promotions			1	
отопроп, пк.	E20070	16/604 754	11 /15 /2010		2020 0102467		DUDUCUED	US
	539970	16/684,754	11/15/2019	Method And Apparatus For	2020-0193467		PUBLISHED	US
				Payment, Return On Investment,			1	
Groupon, Inc.				And Impact Reporting	1		1	
	541252	16/704,948	12/5/2019	Universal Relevance Service	2020-0184532		PUBLISHED	US
				Framework			1	
Groupon, Inc.								
	541254	16/726,101	12/23/2019	Forecasting Demand Using	2020-0210870		PUBLISHED	US
1		/	. ,	Hierarchical Temporal Memory				
Groupon, Inc.				Inportation of y			1	
отопроп, пк.	539531	16/744,405	1/16/2020	Method, Apparatus, And	2020-0151188		PUBLISHED	US
	222221	10/ /44,403	1,10,2020		2020-0131100		FOBLISHED	ا
l				Computer Program Product For			1	
Groupon, Inc.		1	1	Ranking Content Channels	1	1	1	1

## **TRADEMARKS**

Country	Mark Name	Status	Filed Date	Application No.	Reg. Date	Registration No.	Owner
United States of America	AMPLIFIER	Registered	11/21/2013	86/126175	3/22/2016	4920349	Livingsocial, LLC
United States of America	B (STYLIZED)	Registered	9/13/2013	86/064,132	4/14/2015	4,720,984	Groupon, Inc.
United States of America	CHATTY CAT	Registered	8/29/2014	86/381,315	7/14/2015	4,774,258	Groupon, Inc.
United States of America	FORM + FOCUS	Registered	4/28/2015	86/612,179	3/28/2017	5,172,113	Groupon, Inc.
United States of America	FORM + FOCUS	Registered	8/8/2016	87/130,166	3/21/2017	5,168,546	Groupon, Inc.
United States of America	FORM + FOCUS	Registered	1/13/2017	87/300,902	8/29/2017	5,274,964	Groupon, Inc.
United States of America	G PASS & DESIGN	Registered	3/21/2012	85/575,528	5/12/2015	4,735,586	Groupon, Inc.
United States of America	G-PASS	Registered	12/5/2011	85/487,426	12/10/2013	4,448,299	Groupon, Inc.
United States of America	GROUPON	Registered	4/3/2014	86/240,902	12/8/2015	4,867,729	Groupon, Inc.
United States of America	GROUPON	Registered	7/3/2012	85/668,357	12/22/2015	4,874,693	Groupon, Inc.
United States of America	GROUPON	Registered	3/10/2009	77/687,604	9/22/2009	3,685,954	Groupon, Inc.
United States of America	GROUPON	Registered	7/3/2012	85/979,543	5/26/2015	4,744,246	Groupon, Inc.
United States of America	GROUPON	Registered	4/1/2016	86/961,123	5/9/2017	5,201,398	Groupon, Inc.
United States of America	GROUPON	Registered	4/1/2016	86/961,127	6/13/2017	5,224,305	Groupon, Inc.
United States of America	GROUPON	Registered	4/1/2016	86/961,190	6/13/2017	5,224,306	Groupon, Inc.
United States of America	GROUPON	Registered	4/1/2016	86/961,195	5/9/2017	5,201,399	Groupon, Inc.
United States of America	GROUPON	Registered	7/25/2016	87/114,915	1/10/2017	5,119,539	Groupon, Inc.
United States of America	GROUPON ACT NOW	Registered	11/26/2018	88/205,517	7/2/2019	5,793,209	Groupon, Inc.
United States of America	GROUPON GOODS	Registered	8/29/2011	85/409,592	3/12/2013	4,302,184	Groupon, Inc.
United States of America	GROUPON GOODS GATEWAY	Registered	4/2/2018	87/859,653	9/25/2018	5,570,694	Groupon, Inc.
United States of America	GROUPON GOODS GATEWAY	Registered	4/2/2018	87/859,545	9/25/2018	5,570,693	Groupon, Inc.
United States of America	GROUPON GRASSROOTS	Registered	7/15/2013	86/010,426	9/16/2014	4,606,880	Groupon, Inc.
United States of America	GROUPON LOGO	Registered	7/3/2012	85/668,414	12/13/2016	5,100,539	Groupon, Inc.
United States of America	GROUPON LOGO	Registered	3/14/2011	85/266,548	10/9/2012	4,222,645	Groupon, Inc.
United States of America	GROUPON MERCHANT	Registered	9/9/2015	86/752,209	6/6/2017	5,219,206	Groupon, Inc.

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United States of America	GROUPON MERCHANT	Registered	9/9/2015	86/752,205	12/19/2017	5,360,422	Groupon, Inc.
United States of America	GROUPON MERCHANT	Registered	9/9/2015	86/752,212	12/19/2017	5,360,423	Groupon, Inc.
United States of America	GROUPON MERCHANT & DESIGN	Registered	9/9/2015	86/752,216	6/20/2017	5,228,797	Groupon, Inc.
United States of America	GROUPON MERCHANT & DESIGN	Registered	9/9/2015	86/752,214	6/20/2017	5,228,796	Groupon, Inc.
United States of America	GROUPON MERCHANT & DESIGN	Registered	9/9/2015	86/752,213	6/6/2017	5,219,207	Groupon, Inc.
United States of America	GROUPON PAYMENTS	Registered	9/19/2012	85/733,472	3/21/2017	5,166,603	Groupon, Inc.
United States of America	GROUPON PEOPLE	Registered	9/6/2017	87/597,849	9/18/2018	5,563,833	Groupon, Inc.
United States of America	GROUPON RESERVE	Registered	10/18/2011	85/450,098	1/29/2013	4,283,740	Groupon, Inc.
United States of America	GROUPON SELECT	Registered	3/21/2018	87/843,453	3/19/2019	5,704,982	Groupon, Inc.
United States of America	GROUPON TO GO	Registered	5/20/2015	86/635,658	5/31/2016	4,970,391	Groupon, Inc.
United States of America	GROUPON TO GO	Registered	5/20/2015	86/635,671	11/3/2015	4,846,131	Groupon, Inc.
United States of America	GROUPON TO GO	Registered	5/20/2015	86/635,664	11/3/2015	4,846,130	Groupon, Inc.
United States of America	GROUPON TO GO	Registered	5/20/2015	86/635,653	5/31/2016	4,970,389	Groupon, Inc.
United States of America	GROUPON VIP	Registered	11/11/2011	85/470,495	3/26/2013	4,309,987	Groupon, Inc.
United States of America	GROUPON VOLUNTEERS	Registered	2/1/2018	87/780,239	9/25/2018	5,569,261	Groupon, Inc.
United States of America	GROUPON WINES	Registered	8/29/2014	86/381,303	7/14/2015	4,774,257	Groupon, Inc.
United States of America	GROUPON+	Registered	8/21/2017	87/576,914	2/27/2018	5,412,952	Groupon, Inc.
United States of America	GROUPON+	Registered	8/1/2017	87/551,342	4/10/2018	5,442,615	Groupon, Inc.
United States of America	GROUPONLIVE	Registered	1/20/2011	85/222,076	12/6/2011	4,068,591	Groupon, Inc.
United States of America	GROUPONSULTAT ION	Registered	4/15/2016	87/002,331	3/7/2017	5,157,898	Groupon, Inc.
United States of America	GROUPONWORKS	Registered	9/23/2010	85/136,402	5/24/2011	3,965,842	Groupon, Inc.
United States of America	HAVE-DONES	Registered	5/13/2016	87/036,835	8/7/2018	5,532,654	Groupon, Inc.
United States of America	HAVES	Registered	5/13/2016	87/036,830	8/7/2018	5,536,280	Groupon, Inc.
United States of America	IF YOU'RE GOING TO OWN SOMETHING OWN THE EXPERIENCE	Registered	5/13/2016	87/036,815	2/6/2018	5,393,931	Groupon, Inc.
United States of America	JAZZY CAT	Registered	8/29/2014	86/381,320	7/14/2015	4,774,259	Groupon, Inc.
United States of America	LIFE IS A LIMITED TIME OFFER	Registered	5/13/2016	87/036,811	4/17/2018	5,449,075	Groupon, Inc.

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United States of America	LIVINGSOCIAL	Registered	4/22/2010	85/020494	12/7/2010	3886244	Livingsocial, LLC
United States of America	LIVINGSOCIAL	Registered	4/23/2010	85/022066	2/15/2011	3921220	Livingsocial, LLC
United States of America	LIVINGSOCIAL	Registered	7/5/2017	87/516,775	1/30/2018	5,391,280	Livingsocial, LLC
United States of America	LIVINGSOCIAL & Balloons Logo	Registered	2/23/2011	85/249,761	11/15/2011	4,055,498	Livingsocial, LLC
United States of America	LOCAL HEART, GLOBAL IMPACT	Registered	5/15/2018	87/921,575	1/15/2019	5,654,358	Groupon, Inc.
United States of America	LOCAL HEART, GLOBAL IMPACT Design	Registered	5/15/2018	87/921,568	1/15/2019	5,654,357	Groupon, Inc.
United States of America	LOOK FORWARD WE'VE GOT YOUR BACK	Registered	8/4/2016	87/127,639	7/11/2017	5,242,900	Groupon, Inc.
United States of America	LOOK FORWARD WE'VE GOT YOUR BACK	Registered	8/4/2016	87/126,826	8/7/2018	5,536,349	Groupon, Inc.
United States of America	MERCHANT DESIGN	Registered	9/9/2015	86/752,219	6/6/2017	5,219,208	Groupon, Inc.
United States of America	MERCHANT DESIGN	Registered	9/9/2015	86/752,220	6/20/2017	5,228,798	Groupon, Inc.
United States of America	MERCHANT DESIGN	Registered	9/9/2015	86/752,223	6/6/2017	5,219,209	Groupon, Inc.
United States of America	OAK & RUSH	Registered	9/24/2013	86/979,930	9/6/2016	5,038,104	Groupon, Inc.
United States of America	OLIVE STREET	Registered	7/24/2014	86/347,700	2/28/2017	5,151,587	Groupon, Inc.
United States of America	OLIVE STREET	Registered	7/24/2014	86/978,695	5/3/2016	4,953,210	Groupon, Inc.
United States of America	ONTEK	Registered	10/4/2013	86/082,896	4/19/2016	4,941,779	Groupon, Inc.
United States of America	ONTEK	Registered	11/6/2014	86/446,362	1/12/2016	4,886,789	Groupon, Inc.
United States of America	ORDERUP	Registered	11/17/2015	86/823,272	12/27/2016	5,107,817	Groupon, Inc.
United States of America	ORDERUP	Registered	11/17/2015	86/823,279	12/27/2016	5107818	Groupon, Inc.
United States of America	ORDERUP	Registered	11/16/2015	86/820,901	12/27/2016	5,107,803	Groupon, Inc.
United States of America	ORDERUP	Registered	11/16/2015	86/820,907	8/2/2016	5,011,700	Groupon, Inc.
United States of America	ORDERUP	Registered	11/16/2015	86/821,108	12/27/2016	5,107,807	Groupon, Inc.
United States of America	ORDERUP	Registered	11/16/2015	86/820,913	12/27/2016	5,107,804	Groupon, Inc.
United States of America	ORDERUP	Registered	11/16/2015	86/820,918	12/27/2016	5,107,805	Groupon, Inc.
United States of America	OWN THE EXPERIENCE	Registered	5/13/2016	87/036,827	9/4/2018	5,556,242	Groupon, Inc.
United States of America	RESTAURANTS PLUS	Registered	9/14/2015	86/755904	4/19/2016	4941342	Livingsocial, LLC
United States of America	REWRITE THE LIST	Registered	9/10/2019	88/611,441	6/16/2020	6,081,945	Groupon, Inc.
United States of America	SNAP BY GROUPON	Registered	9/12/2014	86/393,000	8/18/2015	4,793,339	Groupon, Inc.

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United States of America	SNAP BY GROUPON & DESIGN	Registered	10/1/2014	86/411,952	7/28/2015	4,780,646	Groupon, Inc.
United States of America	SNAZZY CAT	Registered	8/29/2014	86/381,324	7/14/2015	4,774,260	Groupon, Inc.
United States of America	SOCIOLOGY	Registered	11/4/2014	86/444,659	9/20/2016	5,046,149	Groupon, Inc.
United States of America	SPACESHIP CAT DESIGN	Registered	8/2/2013	86/027,424	4/12/2016	4,937,119	Groupon, Inc.
United States of America	STAMPEDE	Registered	4/29/2013	85/917621	1/6/2015	4665537	Livingsocial, LLC
United States of America	TAKE THE NEXT STEP TO GROW YOUR BUSINESS	Registered	8/4/2016	87/126,830	7/11/2017	5,242,899	Groupon, Inc.
United States of America	TAKE THE NEXT STEP TO GROW YOUR BUSINESS	Registered	8/4/2016	87/126,828	7/11/2017	5,242,898	Groupon, Inc.
United States of America	TOP CAT	Registered	8/29/2014	86/381,326	10/6/2015	4,828,538	Groupon, Inc.
United States of America	VECTOR CAT DESIGN	Registered	8/2/2013	86/027,399	4/26/2016	4,946,594	Groupon, Inc.
United States of America	VECTOR CAT DESIGN	Registered	8/2/2013	86/978,509	4/12/2016	4,938,544	Groupon, Inc.
United States of America	WEXLEY HOME	Registered	11/25/2014	86/464,895	8/30/2016	5,032,528	Groupon, Inc.
United States of America	YOU ONLY LIVE ONCE. BUT YOU CAN ALWAYS LIVE MORE.	Registered	5/13/2016	87/036,821	1/8/2019	5,649,670	Groupon, Inc.

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### PATENT AND TRADEMARK LICENSES

None

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**RECORDED: 07/23/2020**