

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7690170

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZILLOW, LLC	10/30/2022

RECEIVING PARTY DATA

Name:	PUSH SUB I, INC.
Street Address:	1301 SECOND AVENUE, FLOOR 31
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98101

PROPERTY NUMBERS Total: 57

Property Type	Number
Application Number:	15649427
Application Number:	16443881
Application Number:	17367425
Application Number:	15649434
Application Number:	16693286
Application Number:	17064601
Application Number:	16190162
Application Number:	17019247
Application Number:	17478740
Application Number:	15950881
Application Number:	16864011
Application Number:	16236187
Application Number:	17082044
Application Number:	17000236
Application Number:	17082053
Application Number:	16920770
Application Number:	16807135
Application Number:	17666499
Application Number:	16681787
Application Number:	17064608

PATENT

Property Type	Number
Application Number:	17589842
Application Number:	16841581
Application Number:	17494715
Application Number:	17080604
Application Number:	17493701
Application Number:	17013323
Application Number:	17069800
Application Number:	17472527
Application Number:	17243146
Application Number:	17150958
Application Number:	17573465
Application Number:	17201996
Application Number:	17962299
Application Number:	17185793
Application Number:	17386281
Application Number:	17185816
Application Number:	17459820
Application Number:	17482325
Application Number:	17897154
Application Number:	17585433
Application Number:	17564054
Application Number:	17872914
Application Number:	17842419
Application Number:	17864234
Application Number:	17897147
Application Number:	17892427
Application Number:	17950865
Application Number:	62744480
Application Number:	63081744
Application Number:	63035619
Application Number:	63135312
Application Number:	63117372
Application Number:	63270794
Application Number:	63279247
Application Number:	63272854
PCT Number:	US2019055282
PCT Number:	US2021032656

CORRESPONDENCE DATA**Fax Number:** (206)800-3299*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:** 2066044452**Email:** jwhite@vlplawgroup.com**Correspondent Name:** JAMES A. D. WHITE**Address Line 1:** 7683 SE 27TH STREET #145**Address Line 2:** VLP LAW GROUP LLP**Address Line 4:** MERCER ISLAND, WASHINGTON 98040

ATTORNEY DOCKET NUMBER:	990074.001
NAME OF SUBMITTER:	JAMES A. D. WHITE
SIGNATURE:	/James A. D. White/
DATE SIGNED:	12/12/2022

Total Attachments: 91

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ASSIGNMENT

This Assignment (the "Assignment"), effective as of October 30, 2022 (the "Effective Date"), is entered into by and between Zillow, LLC, a Washington Limited Liability Company ("Assignor"), and Push Sub I, Inc., a Washington Corporation ("Assignee" and together with Assignor, the "Parties").

RECITALS

WHEREAS, Assignee is the sole member of Assignor;

WHEREAS, Assignor owns all right, title and interest in and to the intellectual property identified on Schedule A attached hereto (together the "Zillow Intellectual Property");

WHEREAS, Assignor desires to make a distribution to Assignee as its sole member, consisting of the Zillow Intellectual Property (the "Distribution"); and

WHEREAS, in furtherance of the Distribution, Assignor now desires to assign all of its right, title and interest in and to the Zillow Intellectual Property to Assignee, and Assignee desires to acquire the Zillow Intellectual Property.

NOW THEREFORE, in exchange for the mutual promises made herein and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor and Assignee hereby agree as follows:

1. ASSIGNMENT

With effect as of the time of the Effective Date, Assignor does hereby irrevocably sell, assign, transfer, convey, and deliver all of its right, title, and interest in and to the Zillow Intellectual Property to Assignee for Assignee's own use and enjoyment and for the use and enjoyment of Assignee's successors, assigns, and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignee if this Assignment had not been made. This Assignment includes all right, title, and interest in and to the Zillow Intellectual Property, including but not limited to:

- (a) the right to assign or license the Zillow Intellectual Property;
- (b) any and all royalties, fees, income, payments, and other proceeds now or hereafter due or payable with respect to any of the Zillow Intellectual Property;
- (c) all causes of action for any previously occurring infringement, misappropriation, or violation of the Zillow Intellectual Property, the right to sue for past and future damages, and the right to receive and retain the proceeds relating to the infringement, misappropriation, or violation of the Zillow Intellectual Property; and
- (d) all other rights and interests in and to the Zillow Intellectual Property.

2. REPRESENTATIONS AND WARRANTIES

Each of Assignor and Assignee represents and warrants that it has the power and authority to execute, deliver, and perform its obligations under this Assignment and that neither the execution nor delivery of this Assignment nor the performance of its obligations hereunder will constitute a breach of the terms or provisions of any contract or violate the rights of any third party

3. GENERAL PROVISIONS

- 3.1 Further Assurances. The parties agree to execute such further or other documents and assurances and do such other acts as may, from time to time, be required or deemed useful to give effect to the provisions of this Assignment. Such further assurances include, without limitation, the execution and delivery of any and all affidavits, declarations, oaths, samples, exhibits, specimens, assignments, powers of attorney or other documentation and other acts as may be necessary or requested by Assignee to vest full title in and to the Zillow Intellectual Property in Assignee or which may be necessary to obtain, renew, issue or enforce the Zillow Intellectual Property.
- 3.2 Entire Agreement and Amendment. This Assignment sets forth the entire agreement and understanding between the parties with respect to the Zillow Intellectual Property. No amendment of any provision of this Assignment shall be valid unless the same shall be in writing and signed by Assignor and Assignee. No waiver by any party of any provision of this Assignment or any default or breach of covenant hereunder, whether intentional or not, shall be valid unless the same shall be in writing and signed by the party against whom the waiver is to be effective nor shall such waiver be deemed to extend to any prior or subsequent default or breach of covenant hereunder or affect in any way any rights arising by virtue of any prior or subsequent such occurrence.
- 3.3 Governing Law. This Agreement shall be governed by and constructed in accordance with the laws of Washington, without regard to its conflict of law rules, and it shall be binding upon the parties worldwide.
- 3.4 Severability. Any provision of this Assignment which is invalid or unenforceable shall not affect any other provision and shall be deemed to be severable.
- 3.5 Waiver of Default. A waiver by any party of a breach or violation of any provision of this Assignment will not constitute or be construed as a waiver by that party of any other breach or violation of this Assignment.
- 3.6 Counterparts. This Assignment may be executed and delivered in any number of counterparts, each of which when executed and delivered is an original but all of which when taken together constitute one and the same instrument.


[Signature page follows]

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be effective as of the Effective Date.

ZILLOW, LLC

PUSH SUB I, INC.

By: 

By: 

Name: Bradley D. Owens

Name: Bradley D. Owens

Its: Secretary

Its: President and Chief Executive Officer

Schedule A

Zillow Intellectual Property

Zillow Intellectual Property includes all of the following that as of the Effective Date of this Assignment is owned by Assignor:

- All works of authorship and other copyrightable subject matter (including, but not limited to software code and other compilations of data), whether published or unpublished, including all rights of authorship, use, publication, reproduction, distribution, performance, preparation of derivative works, transformation, and rights of ownership of copyrightable works, moral rights, and all rights to register and obtain renewals and extensions of registrations (including, without limitation, those specifically identified on Schedule B);
- All trademarks, service marks, trade dress, logos, slogans, trade names (including social media corporate identifiers), corporate and business names, and Internet domain names, and other source or business identifiers, together with all translations, adaptations, derivations, and combinations thereof and including all goodwill associated therewith, and all applications, registrations, and renewals in connection therewith;
- All inventions, invention disclosures, discoveries, updates, adaptations, designs, enhancements, and improvements (whether or not patentable), issued patents, patent applications, design rights, other industrial property rights, and counterparts claiming priority therefrom and all rights to claim priority thereto, and all related continuations, continuations-in-part, divisionals, reissues, renewals, re-examinations, substitutions, and extensions thereof;
- All trade secrets, know-how, confidential information, ideas, formulae, processes, proprietary information, functional or detailed design specifications, technical data, secret or confidential information, information that derives economic value from not being generally known, and any information that would constitute a trade secret as defined in the Uniform Trade Secrets Act;
- All software;
- All other intellectual and industrial property rights (of every kind and nature and however designated), including logos, “rental” rights, and rights to remuneration, whether arising by operation of law, contract, license, or otherwise; and
- Any additional applicable intangible property under U.S. Treasury Regulation Section 1.482-4(b) (whether or not in documentary form and whether or not patentable, copyrightable, or otherwise protectable under applicable laws).

The Zillow Intellectual Property includes, without limitation, all registered intellectual property specifically identified in Schedule B (the “Registered Intellectual Property”).

Schedule B

Registered Intellectual Property

Registered Copyrights

None.

Registered Trademarks

See attached.

Registered Patents

See attached.

Registered Internet Domain Names

See attached.

Trademark Records By Owner

Trademark Status

Int. Classes

Registration Date

Registration No

Application Date

Application No

Country

Trademark

ShowingTime

Register

9

Jan 21 2014

4469824

May 28 2013

85943436

United States of America

ShowingCart

SHOWINGCART

ShowingTime.com Inc.

Register

35

Dec 20 2016

5106858

Jun 24 2016

87083246

United States of America

MarketStats

MARKETSTATS

ShowingTime.com Inc.

ShowingTime.com, Inc.

Register

9, 42

Feb 9 2021

6268678

Aug 25 2020

90135956

United States of America

OFFERMANAGER

OFFERMANAGER

ShowingTime.com, Inc.

HOWINGTIME.COM, INC.

Register

9

Dec 31 2019

5952081

May 6 2019

88416820

United States of America

Secure Access

SECURE ACCESS

OWINGTIME.COM, INC.

ShowingTime.com, Inc.

Register

9

Sep 22 2020

6160080

Dec 12 2019

88724299

United States of America

SHOWING BEACON

SHOWING BEACON

ne.com, Inc.

PATENT

Register

9

Oct 31 2017

5326241

May 19 2017

87456755

United States of America

Showing Index

SHOWING INDEX

ne.com, Inc.

Register

9

Jan 11 2011

3903061

Mar 26 2010

77969600

United States of America

Showing Suite

SHOWING SUITE

ne.com, Inc.

Register

36

Mar 17 2009

3592514

Nov 30 2007

77341554

United States of America

ShowingSync

SHOWINGSYNC

ne.com, Inc.

SHOWINGTIME.COM, INC. SHOWINGTIME United States of America 78714715 Sep 16 2005 3132872 Aug 22 2006 9 Register

SHOWINGTIME.COM, INC. SHOWINGTIME United States of America 87233079 Nov 10 2016 5227390 Jun 20 2017 42 Register

How, Inc.

TRULIA Argentina 3197562 Nov 9 2012 2620110 Jan 6 2014 9 Register

TRULIA Argentina 3197563 Nov 9 2012 2620111 Jan 6 2014 35 Register

TRULIA Argentina 319564 Nov 9 2012 2620112 Jan 6 2014 36 Register



Trulia logo (color) Argentina 3205502 Nov 9 2012 2626760 Jan 27 2014 9 Register



Trulia logo (color) Argentina 3205503 Nov 9 2012 2626737 Jan 27 2014 35 Register



Trulia logo (color) Argentina 3205504 Nov 9 2012 2626759 Jan 27 2014 36 Register

MAKE ME MOVE

MAKE ME MOVE Australia 1167432 Mar 22 2007 1167432 Mar 22 2007 36, 38, 42 Register

PREMIER AGENT

PREMIER AGENT Australia 9, 42 Register

TRULIA

TRULIA Australia 1150842 Oct 5 2012 1150842 Oct 5 2012 9, 35, 36 Register



Trulia (new logo)
(color)

ow, Inc. Australia 1638623 Aug 4 2014 1638623 Aug 4 2014 9, 35, 36 Register



Trulia logo (color)

ow, Inc. Australia 1166892 Nov 7 2012 1166892 Nov 7 2012 9, 35, 36, 38 Register



Z

ow, Inc. Australia 1511824 Nov 8 2019 1511824 Nov 8 2019 9, 35, 36, 37, 41, 42 Register



Z in a House
(Stylized)

ow, Inc. Australia 1832056 Nov 7 2011 1832056 Nov 7 2011 9, 35, 36, 42 Register

ZESTIMATE

Australia 887481 Mar 21 2006 887481 Mar 21 2006 36 Register

ZILLOW

Australia 1112205 Nov 7 2011 1112205 Nov 7 2011 9, 35, 36, 37, 39, 42 Register

ZILLOW.COM

Australia 882476 Sep 28 2005 882476 Sep 28 2005 9, 35, 36, 42 Register

AGENTFOLIO

Benelux 1272163 Jul 19 2013 0942262 Jul 19 2013 9 Register

DIGS

Benelux 1272164 Jul 19 2013 0941461 Jul 19 2013 9 Register

HOTPADS

Benelux 1272168 Jul 19 2013 0941373 Jul 19 2013 9 Register

ZILLOW





Benelux 1091094 Nov 18 2005 0779953 Nov 29 2005 35, 36 Register

ZILLOW DIGS

Benelux 1272166 Jul 19 2013 0941372 Jul 19 2013 9 Register

PATENT

REEL: 062116 FRAME: 0106

ow, Inc.	TRULIA	Brazil	840292198	Oct 8 2012	840292198	Jan 12 2016	35	Register
ow, Inc.	TRULIA	Brazil	840292201	Oct 8 2012	840292201	May 10 2016	36	Register
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ow, Inc.		Brazil	840327277	Nov 9 2012	840327277	Nov 17 2015	35	Register
ow, Inc.		Brazil	840327293	Nov 9 2012	840327293	Nov 17 2015	36	Register
	Z	Brazil	1511824	Nov 8 2019	1511824	Nov 8 2019	9, 35, 36, 37, 41, 42	Register
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PATENT

REEL: 062116 FRAME: 0107



Z in a House (Stylized)

ow, Inc. Brazil 909191735 Mar 31 2015 909191735 Sep 5 2017 9 Register



Z in a House (Stylized)

ow, Inc. Brazil 909191913 Mar 31 2015 909191913 Sep 5 2017 42 Register



Z in a House (Stylized)

ow, Inc. Brazil 909191867 Mar 31 2015 909191867 Sep 5 2017 36 Register

ZILLOW

ow, Inc. Brazil 840682670 Oct 18 2013 840682670 Jul 5 2016 9 Register

ZILLOW

ow, Inc. Brazil 840682700 Oct 18 2013 840682700 Feb 21 2017 35 Register

ZILLOW

ow, Inc. Brazil 840682735 Oct 18 2013 840682735 Jun 13 2017 36 Register

ZILLOW

ow, Inc. Brazil 840682786 Oct 18 2013 840682786 Jun 28 2016 39 Register

ZILLOW

ow, Inc. Brazil 840682794 Oct 18 2013 840682794 Aug 9 2016 42 Register

BRIDGE INTERACTIVE

ow, Inc. Canada 1864868 Oct 26 2017 TMA1073606 Feb 26 2020 42 Register

DOTLOOP

Canada 1871504 Dec 5 2017 TMA1079745 Jun 16 2020 9, 42 Register

MAKE ME MOVE

Canada 1340300 Mar 21 2007 TMA766470 May 12 2010 Register

MORTECH

Canada 1864869 Oct 26 2017 TMA1073607 Feb 26 2020 42 Register

POSTLETS

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Canada 1542133 Sep 2 2011 TMA850215 May 3 2013 35, 36, 42 Register

PREMIER AGENT

Canada 1779613 Apr 27 2016 TMA1021829 May 16 2019 9, 35, 36, 42 Register

RETSLY

Canada 1715685 Feb 17 2015 TMA960219 Jan 16 2017 Register

PATENT

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ow, Inc.	TRULIA	Canada	1286796	Jan 20 2006	TMA712471	Apr 22 2008	Register
ow, Inc.	 Trulia logo (CA drawing)	Canada	1601770	Nov 9 2012	TMA938775	May 25 2016	Register
ow, Inc.	 Trulia logo (CA drawing)	Canada	1698433	Oct 16 2014	TMA938819	May 25 2016	Register
ow, Inc.	 Z	Canada	1511824	Nov 8 2019	1511824	Nov 8 2019	Register 9, 35, 36, 37, 41, 42
ow, Inc.	 Z in a House (Stylized)	Canada	1550758	Nov 4 2011	TMA927616	Jan 28 2016	Register
	ZESTIMATE	Canada	1294734	Mar 22 2006	TMA729467	Nov 25 2008	Register
	ZILLOW	Canada	1272198	Sep 16 2005	TMA781741	Nov 5 2010	Register
	ZILLOW	Canada	1550753	Nov 4 2011	TMA894274	Jan 16 2015	Register
	ZILLOW.COM	Canada	1406258	Jul 29 2008	TMA805900	Sep 1 2011	Register
	ZINDEX	Canada	1294733	Mar 22 2006	TMA729466	Nov 25 2008	Register
	TRULIA	Chile	1183064	Dec 16 2015	1249039	May 29 2017	Register 9
	TRULIA	Chile	1183070	Dec 16 2015	1222379	Oct 3 2016	Register 35

PATENT

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ow, Inc.	ZILLOW	Chile	1182926	Dec 15 2015	1217314	Aug 18 2016	35	Register
ow, Inc.	ZILLOW	Chile	1182951	Dec 15 2015	1222378	Oct 3 2016	42	Register
ow, Inc.	PREMIER AGENT	China					35	Register
ow, Inc.	TRULIA	China	1150842	Oct 5 2012	1150842	Oct 5 2012	9, 35, 36	Register



Trulia logo (color)

ow, Inc.		China	1166892	Nov 7 2012	1166892	Nov 7 2012	9, 35, 36, 38	Register
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ow, Inc.		China	1511824	Nov 8 2019	1511824	Nov 8 2019	9, 35, 36, 37, 41, 42	Register
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		China	32612848	Aug 1 2018	32612848	Jul 7 2019	35	Register
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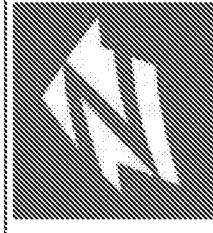


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		China	32612849	Aug 1 2018	32612849	Jul 7 2019	9	Register
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ow, Inc.		China	32612847	Aug 1 2018	32612847	Feb 7 2020	42	Register
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ow, Inc.	ZILLOW	China	1112205	Nov 7 2011	1112205	Oct 29 2012	9, 35, 36, 37, 39, 42	Register
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ow, Inc.	ZILLOW PREMIER AGENT	China	34053526	Oct 16 2018	34053526	Jul 7 2019	42	Register
ow, Inc.	ZILLOW.COM	China	882476	Sep 28 2005	882476	Sep 28 2005	9, 35, 36, 42	Register
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		Cuba					9, 35, 36, 42	Register
	MAKE ME MOVE	EJTM	005779004	Mar 22 2007	005779004	Mar 3 2008	36, 38, 42	Register

Patent No.	Applicant	Inventor	Class	Title	Pub. No.	Pub. Date	Reg. No.	Reg. Date	Reg. Status
010238871	POSTLETS	EJTM	010238871	POSTLETS	010238871	Sep 8 2011	010238871	Feb 6 2012	Registered
004862504	PREMIER AGENT	EJTM	004862504	PREMIER AGENT	004862504	Jan 27 2006	004862504	May 24 2007	Registered
011066388	TRULIA	EJTM	011066388	TRULIA	011066388	Jul 24 2012	011066388	Dec 28 2012	Registered
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004974101	ZESTIMATE	EJTM	004974101	ZESTIMATE	004974101	Mar 22 2006	004974101	Mar 29 2007	Registered
006580419	ZILLOW	EJTM	006580419	ZILLOW	006580419	Jan 14 2008	006580419	Jan 14 2009	Registered
1112205	ZILLOW	EJTM	1112205	ZILLOW	1112205	Nov 7 2011	1112205	Nov 7 2011	Registered
004638532	ZILLOW.COM	EJTM	004638532	ZILLOW.COM	004638532	Sep 16 2005	004638532	Apr 20 2007	Registered
004974192	ZINDEX	EJTM	004974192	ZINDEX	004974192	Mar 22 2006	004974192	Jan 20 2009	Registered





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ZILLOW

1112205

Nov 7 2011

1112205

Oct 4 2013

9, 35, 36, 37, 39, 42

ow, Inc. Register

PREMIER AGENT

Mexico

1315472

Oct 8 2012

1351949

Feb 28 2013

9

ow, Inc. Register

TRULIA

Mexico

1315770

Oct 9 2012

1416823

Dec 2 2013

35

ow, Inc. Register



Trulia logo (color)

Mexico

1325235

Nov 9 2012

1408959

Oct 31 2013

36

ow, Inc. Register



Trulia logo (color)

Mexico

1325229

Nov 9 2012

1361231

Apr 17 2013

9

ow, Inc. Register



Trulia logo (color)

Mexico

1325318

Nov 12 2012

1458314

May 29 2014

35

ow, Inc. Register



ow, Inc. **Z** Mexico 1511824 Nov 8 2019 1511824 Nov 8 2019 9, 35, 36, 37, 41, 42 Register



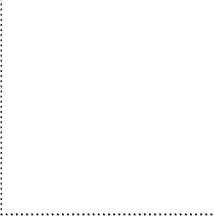
ow, Inc. **Z in a House (Stylized)** Mexico 773413 Mar 22 2006 938816 Jun 19 2006 36 Register

ow, Inc. **ZESTIMATE** Mexico 773416 Mar 22 2006 958498 Oct 20 2006 42 Register

ow, Inc. **ZESTIMATOR** Mexico 1227426 Nov 14 2011 1319157 Oct 10 2012 36 Register

ow, Inc. **ZILLOW** Mexico 1227429 Nov 14 2011 1373488 Jun 5 2013 42 Register

ow, Inc. **ZILLOW** Mexico 1227424 Nov 14 2011 1323564 Oct 26 2012 39 Register



ow, Inc. **ZILLOW** Mexico 1227425 Nov 14 2011 1340945 Dec 19 2012 37 Register

ow, Inc. **ZILLOW** Mexico 1227427 Nov 14 2011 1394160 Aug 30 2013 35 Register

ow, Inc. **ZILLOW** Mexico 1227428 Nov 14 2011 1279535 Apr 13 2012 9 Register

ow, Inc. **ZILLOW.COM** Mexico 740268 Sep 19 2005 999182 Aug 22 2007 35 Register

ow, Inc. **ZILLOW.COM** Mexico 740269 Sep 19 2005 956485 Sep 29 2006 36 Register




ow, Inc. **ZINDEX** Mexico 773414 Mar 22 2006 938817 Jun 19 2006 36 Register

ow, Inc. **ZINDEX** Mexico 773417 Mar 22 2006 1007769 Oct 24 2007 42 Register

ow, Inc. **MAKE ME MOVE** New Zealand 765766 Mar 23 2007 765766 Nov 8 2007 36, 38, 42 Register

PATENT

REEL: 062116 FRAME: 0115

ow, Inc.	PREMIER AGENT	New Zealand	9, 35, 42	Register
ow, Inc.	Z		1511824	Nov 8 2019
ow, Inc.	Z in a House (Stylized)		1511824	Nov 8 2019
ow, Inc.	ZILLOW	851947	851947	Nov 3 2011
ow, Inc.	ZILLOW.COM	ZILLOW.COM	735783	Jun 7 2007
ow, Inc.	Z in a House (Stylized)		887481	Mar 21 2006
ow, Inc.	ZESTIMATE	887481	887481	Mar 21 2006
ow, Inc.	ZILLOW	1112205	1112205	Nov 7 2011
ow, Inc.	ZILLOW.COM	882476	882476	Sep 28 2005
ow, Inc.	ZESTIMATE	887481	887481	Mar 21 2006
ow, Inc.	ZILLOW	1112205	1112205	Nov 7 2011
ow, Inc.	PREMIER AGENT	Russian Federation	9, 35, 42	Register
ow, Inc.	TRULIA	1150842	1150842	Oct 5 2012



Trulia logo (color)

Russian Federation

1166892

Nov 7 2012

1166892

Nov 7 2012

9, 35, 36, 38

Register



Z

Russian Federation

1511824

Nov 8 2019

1511824

Nov 8 2019

9, 35, 36, 37, 41, 42

Register



Z in a House (Stylized)

Russian Federation

887481

Mar 21 2006

887481

Mar 21 2006

9, 35, 36, 42

Register

ZESTIMATE

Russian Federation

887481

Mar 21 2006

887481

Mar 21 2006

36

Register

ZILLOW

Russian Federation

1112205

Nov 7 2011

1112205

Nov 7 2011

9, 35, 36, 37, 39, 42

Register

ZILLOW.COM

Russian Federation

882476

Sep 28 2005

882476

Sep 28 2005

9, 35, 36, 42

Register

ZESTIMATE

Singapore

887481

Mar 21 2006

887481

Mar 21 2006

36

Register

ZILLOW

Singapore

1112205

Nov 7 2011

1112205

Nov 7 2011

9, 35, 36, 37, 39, 42

Register



Z in a House (Stylized)

Switzerland

887481

Mar 21 2006

887481

Mar 21 2006

36

Register

ZESTIMATE

Switzerland

887481

Mar 21 2006

887481

Mar 21 2006

36

Register

ZILLOW

Switzerland

1112205

Nov 7 2011

1112205

Nov 7 2011

9, 35, 36, 37, 39, 42

Register

PATENT

REEL: 062116 FRAME: 0117

ow, Inc.	ZILLOW.COM	Switzerland	882476	Sep 28 2005	882476	Sep 28 2005	9, 35, 36, 42	Register
ow, Inc.	PREMIER AGENT	Turkey					9, 35, 42	Register
ow, Inc.	TRULIA	Turkey	2015/44730	May 25 2015	2015 44730	Mar 15 2016	9, 36, 42	Register
ow, Inc.	Z	Turkey	1511824	Nov 8 2019	1511824	Nov 8 2019	9, 35, 36, 37, 41, 42	Register
ow, Inc.	Z in a House (Stylized)	Turkey	1335317		1335317		9, 35, 36, 42	Register
ow, Inc.	ZILLOW	Turkey	1112205	Sep 20 2013	1112205	Sep 20 2013	9, 35, 36, 37, 39, 42	Register
ow, Inc.	MAKE ME MOVE	United Kingdom	UK00905779004	Mar 22 2007	UK00905779004	Mar 3 2008	36, 38, 42	Register
ow, Inc.	PREMIER AGENT	United Kingdom					9, 35, 42	Register
ow, Inc.	TRULIA	United Kingdom	UK00904862504	Jan 27 2006	UK00904862504	May 24 2007	35, 36, 42	Register



Trulia logo (color)

ow, Inc.	Z	United Kingdom	1511824	Nov 8 2019	1511824	Nov 8 2019	9, 35, 36, 37, 41, 42	Register
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9, 35, 36, 37, 41, 42

Nov 8 2019

UK00801511824

Nov 8 2019

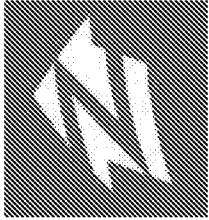
UK00801511824

United Kingdom

Nov 8 2019

Z

ow, Inc.



9, 35, 36, 37, 42

Aug 22 2016

UK00915165269

Mar 1 2016

UK00915165269

United Kingdom

Mar 1 2016

Z in a House (color)

ow, Inc.

9, 36, 42

Mar 29 2007

UK00904974101

Mar 22 2006

UK00904974101

United Kingdom

Mar 22 2006

ZESTIMATE

ow, Inc.

9, 35, 36, 38, 39, 42

Jan 14 2009

UK00906580419

Jan 14 2008

UK00906580419

United Kingdom

Jan 14 2008

ZILLOW

ow, Inc.

9, 35, 36, 42

Apr 20 2007

UK00904638532

Sep 16 2005

UK00904638532

United Kingdom

Sep 16 2005

ZILLOW.COM

ow, Inc.



42

Jan 23 2018

5385182

Jun 20 2017

87497977

United States of America

Jun 20 2017

(Device Only)

ow, Inc.

9, 35, 42

Apr 17 2018

5450483

Dec 6 2017

87710478

United States of America

Dec 6 2017

3D HOME

ow, Inc.

42

Jun 28 2016

4989175

Jun 25 2014

86320805

United States of America

Jun 25 2014

BETTER TOGETHER

ow, Inc.

42

Jun 6 2017

5218534

Nov 10 2016

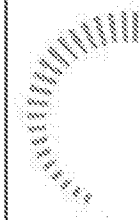
87232412

United States of America

Nov 10 2016

BRIDGE INTERACTIVE

ow, Inc.



42

May 15 2018

5468446

Oct 4 2017

87633012

United States of America

Oct 4 2017

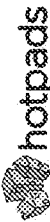

Bridge Interactive logo



ow, Inc.

ow, Inc.	BUILDER INFORM	United States of America	87455518	May 18 2017	5326238	Oct 31 2017	35	Register
ow, Inc.	BUILDING EXPERTS	United States of America	87086020	Jun 28 2016	5093200	Nov 29 2016	35	Register
ow, Inc.	DOTLOOP	United States of America	85315596	May 9 2011	4603892	Sep 16 2014	42	Register
ow, Inc.	DOTLOOP	United States of America	86349882	Jul 28 2014	4659746	Dec 23 2014	42	Register
ow, Inc.	DOTLOOP	United States of America	86349848	Jul 28 2014	4659745	Dec 23 2014	42	Register
ow, Inc.	DOTLOOP	United States of America	87705379	Dec 1 2017	5448673	Apr 17 2018	9	Register
ow, Inc.	DSIDXPRESS	United States of America	85501570	Dec 21 2011	4186648	Aug 7 2012	9, 42	Register
	FIND YOUR WAY HOME	United States of America	78066223	May 29 2001	2578841	Jun 11 2002	36	Register
	FIND YOUR WAY HOME	United States of America	86329484	Jul 7 2014	4969352	May 31 2016	9, 37	Register
	GREAT PEOPLE DON'T WORK ALONE	United States of America	86320809	Jun 25 2014	4965196	May 24 2016	42	Register
	HOTPADS	United States of America	85856827	Feb 21 2013	4372661	Jul 23 2013	9, 35, 36, 42	Register






PATENT

REEL: 062116 FRAME: 0120

ow, Inc.	HOTPADS Logo		United States of America	78694335	Aug 17 2005	3129407	Aug 15 2006	35	Register
ow, Inc.	HREO	HREO	United States of America	87417504	Apr 19 2017	5339124	Nov 21 2017	35, 36, 42	Register
ow, Inc.	INNOVATION COMES HOME	INNOVATION COMES HOME	United States of America	87497684	Jun 20 2017	5329849	Nov 7 2017	35	Register
ow, Inc.	INSTANT OFFERS	INSTANT OFFERS	United States of America	87534036	Jul 19 2017	5494178	Jun 12 2018	35	Register
ow, Inc.	JUSTLISTED	JUSTLISTED	United States of America	78303044	Sep 19 2003	3113223	Jul 4 2006	35, 42	Register
ow, Inc.	LOOP IT	LOOP IT	United States of America	87560098	Aug 8 2017	5386700	Jan 23 2018	42	Register
ow, Inc.	MAKE ME MOVE	MAKE ME MOVE	United States of America	77021109	Oct 13 2006	3419041	Apr 29 2008	42	Register
ow, Inc.	MAKE ME MOVE	MAKE ME MOVE	United States of America	77021107	Oct 13 2006	3409808	Apr 8 2008	38	Register
ow, Inc.	MARKSMAN	MARKSMAN	United States of America	85800210	Dec 11 2012	4383576	Aug 13 2013	42	Register
ow, Inc.	MORTECH	MORTECH	United States of America	85800211	Dec 11 2012	4379555	Aug 6 2013	42	Register
	Mortech Logo		United States of America	85800199	Dec 11 2012	4383575	Aug 13 2013	42	Register

ow, Inc.	NAKED APARTMENTS	NAKED APARTMENTS	United States of America	85704344	Aug 15 2012	4390859	Aug 27 2013	35, 36	Register
ow, Inc.	NEIGHBORHOOD EXPERTS	NEIGHBORHOOD EXPERTS	United States of America	87086030	Jun 28 2016	5093201	Nov 29 2016	35	Register
ow, Inc.	O > E		United States of America	87632942	Oct 4 2017	6048070	May 5 2020	9, 35, 36, 42	Register
ow, Inc.	O.R.EX.	O.R.EX.	United States of America	87417566	Apr 19 2017	5473068	May 22 2018	42	Register
ow, Inc.	ONE BLOCK OVER	ONE BLOCK OVER	United States of America	87761736	Jan 19 2018			36, 41	Pending
ow, Inc.	OUT EAST	OUT EAST	United States of America	87593822	Sep 1 2017			35, 42	Pending
ow, Inc.	OUT EAST	OUT EAST	United States of America	87976886	Sep 1 2017	5445154	Apr 10 2018	36	Register
ow, Inc.	OUT EAST	OUT EAST	United States of America	87632904	Oct 4 2017	6034197	Apr 14 2020	9	Register
	P in a House logo		United States of America	86804175	Oct 29 2015	4988126	Jun 28 2016	9, 35, 36, 42	Register
	PEOPLEWORK	PEOPLEWORK	United States of America	85858796	Feb 25 2013	4625614	Oct 21 2014	42	Register
	PEOPLEWORK, NOT PAPERWORK	<small>PEOPLEWORK, NOT PAPERWORK</small>	United States of America	85858788	Feb 25 2013	4539410	May 27 2014	42	Register

ow, Inc.	PREMIER AGENT	United States of America	86208199	Feb 28 2014	4662344	Dec 30 2014	42	Register
ow, Inc.	PREMIER AGENT	United States of America	86803954	Oct 29 2015	4996554	Jul 12 2016	9, 35	Register
ow, Inc.	PREMIER BROKER	United States of America	87976785	Oct 24 2016	5425360	Mar 13 2018	35, 42	Register
ow, Inc.	REALESTATE.COM & Design	United States of America	87437153	May 4 2017	5329777	Nov 7 2017	36, 42	Register
ow, Inc.	RENTAL INFORM	United States of America	87640669	Oct 10 2017	5435247	Mar 27 2018	35	Register
ow, Inc.	SHOWINGS ON DEMAND	United States of America	86936941	Mar 11 2016	5106818	Dec 20 2016	9, 35, 36	Register
ow, Inc.	STREETEASY	United States of America	78925584	Jul 10 2006	3476680	Jul 29 2008	36, 37, 42	Register
ow, Inc.	STREETEASY	United States of America	86804191	Oct 29 2015	4982937	Jun 21 2016	9	Register
	STREETSCAPE	United States of America	97317934	Mar 17 2022			9	Pending
	THE HOUSE IS ONLY HALF OF IT	United States of America	87240058	Nov 17 2016	5644072	Jan 1 2019	35, 36, 42	Register
	TRULIA	United States of America	78717947	Sep 21 2005	3210548	Feb 20 2007	35, 36	Register
	TRULIA	United States of America	78717943	Sep 21 2005	3197657	Jan 9 2007	35	Register
	TRULIA	United States of America	78717938	Sep 21 2005	3204655	Jan 30 2007	42	Register

ow, Inc.	TRULIA	United States of America	85590876	Apr 6 2012	4241967	Nov 13 2012	9	Register
ow, Inc.	 Trulia logo (color)	United States of America	85621201	May 9 2012	4433361	Nov 12 2013	9, 35, 36, 38, 42	Register
ow, Inc.	UNLOCK	United States of America	88482169	Jun 20 2019			41	Pending
ow, Inc.	WHATEVER HOME MEANS TO YOU, WE'LL HELP YOU FIND IT	United States of America	86941884	Mar 16 2016	5257217	Aug 1 2017	9, 35, 36, 42	Register
ow, Inc.	 Z in a House (stylized)	United States of America	78722639	Sep 28 2005	3607638	Apr 14 2009	42	Register
ow, Inc.	 Z in a House (stylized)	United States of America	78722635	Sep 28 2005	3607637	Apr 14 2009	35, 36	Register
ow, Inc.	 Z in a House (stylized)	United States of America	78722629	Sep 28 2005	3455337	Jun 24 2008	35	Register
ow, Inc.	 Z in a House (Stylized)	United States of America	78722625	Sep 28 2005	3420126	Apr 29 2008	9	Register



Z in a House
(Stylized)

ow, Inc.

United States of
America

86251280

Apr 14 2014

4662545

Dec 30 2014

9, 35, 36, 37, 39,
42

Register



Z in a House new
logo 2019

ow, Inc.

United States of
America

88424582

May 10 2019

6165127

Sep 29 2020

9, 35, 36, 37, 38,
41, 42, 45

Register

ZESTIMATE

ZESTIMATE

ow, Inc.

United States of
America

78718690

Sep 22 2005

3320467

Oct 23 2007

36

Register

ZILLOW

United States of
America

78491858

Sep 29 2004

3175031

Nov 21 2006

39

Register

ZILLOW

United States of
America

78589639

Mar 17 2005

3493872

Aug 26 2008

9

Register

ZILLOW

United States of
America

78977353

Mar 17 2005

3150074

Sep 26 2006

42

Register

ZILLOW

United States of
America

78976968

Mar 17 2005

3332886

Nov 6 2007

36

Register

ZILLOW

United States of
America

78589658

Mar 17 2005

3565882

Jan 20 2009

42

Register

ZILLOW

United States of
America

78589650

Mar 17 2005

3437691

May 27 2008

36

Register

ZILLOW

United States of
America

78589645

Mar 17 2005

3437690

May 27 2008

35

Register

ZILLOW

United States of
America

85464019

Nov 3 2011

4201269

Sep 4 2012

9, 35, 36, 39, 42

Register

ZILLOW

United States of
America

86539019

Feb 18 2015

4812774

Sep 15 2015

16

Register

ow, Inc.	ZILLOW	United States of America	87082958	Jun 24 2016	38, 41	Pending
ow, Inc.	ZILLOW	United States of America	88220970	Dec 7 2018	6048675	Registered
ow, Inc.	ZILLOW	United States of America	88424619	May 10 2019	6035311	Registered
ow, Inc.	ZILLOW INSTANT OFFERS	United States of America	87534099	Jul 19 2017	5553175	Registered
ow, Inc.	ZILLOW OFFERS	United States of America	88221009	Dec 7 2018	6048676	Registered
ow, Inc.	ZILLOW PRIZE	United States of America	87497618	Jun 20 2017	5329847	Registered
ow, Inc.	ZILLOW PRIZE INNOVATION COMES HOME	United States of America	87497662	Jun 20 2017	5329848	Registered
ow, Inc.	ZILLOW RENTALS	United States of America	90851342	Jul 27 2021	9, 36, 42	Pending
ow, Inc.	ZILLOW.COM	United States of America	882476	Sep 28 2005	882476	Registered
	Z	Vietnam	1511824	Nov 8 2019	1511824	Registered





Z in a House
(Stylized)

1335317

1335317

9, 35, 36, 42

Register

ow, Inc.

ZILLOW

Vietnam

4-2015-21729

Aug 13 2015

333823

Oct 21 2019

16

Register

ow, Inc.

PREMIER AGENT

WIPO

A0058413

Apr 27 2016

1310151

Sep 22 2016

9, 35, 42

Register

ow, Inc.

TRULIA

WIPO

1150842

Oct 5 2012

1150842

Oct 5 2012

9, 35, 36

Register

ow, Inc.



Trulia logo (color)

WIPO

1166892

Nov 7 2012

1166892

Nov 7 2012

9, 35, 36, 38

Register

ow, Inc.



Z

WIPO

1511824

Nov 8 2019

1511824

Nov 8 2019

9, 35, 36, 37, 41, 42

Register

ow, Inc.



Z in a House
(Stylized)

976592201

Apr 21 2016

1335317

Apr 21 2016

9, 35, 36, 42

Register

ow, Inc.

ZESTIMATE

WIPO

887481

Mar 21 2006

887481

Mar 21 2006

36

Register

ZILLOW

WIPO

1112205

Nov 7 2011

1112205

Nov 7 2011

9, 35, 36, 37, 39, 42

Register

ow, Inc.

ZILLOW.COM

WIPO

882476

Sep 28 2005

882476

Sep 28 2005

9, 35, 36, 42

Register

ow, Inc.

TMCH: ZILLOW

Worldwide

Register

TRULIA

Worldwide

Nov 5 2013

Register

ow, Inc.

Infinity 266 Records Printed By machine#512: Oct 27 2022 - 14:09:20 - Criteria: Count = %allow% + Status in "Pending", "Registered" + Active / Inactive = Active, Only 266 Of

PATENT

REEL: 062116 FRAME: 0127

0 Records Selected - END OF REPORT

PATENT
REEL: 062116 FRAME: 0128

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8004US	UNITED STATES	11/347,000	February 3, 2006	8,676,680	March 18, 2014	February 15, 2030	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Chung, Kysuk Burstein, Jonathan	Issued Third Maintenance Fee due 3/18/25
56920-8004US1	UNITED STATES	14/167,962	January 29, 2014	10,074,111	September 11, 2018	February 3, 2026	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Chung, Kysuk Burstein, Jonathan	Issued Maintenance Fee due 3/11/26
56920-8004US2	UNITED STATES	16/125,318	September 7, 2018	11,244,361	February 8, 2022	March 23, 2026	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Chung, Kysuk Burstein, Jonathan	Issued Maintenance Fee due 8/8/25
56920-8005US	UNITED STATES	11/347,024	February 3, 2006	7,970,674	June 28, 2011	November 28, 2029	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Cheng, David A. Chung, Kysuk Humphries, Stanley Xiang, Dong Burstein, Jonathan	Issued Third Maintenance Fee due 12/28/22
56920-8007US	UNITED STATES	11/347,798	February 3, 2006	7,415,356	August 19, 2008	July 27, 2026	TECHNIQUES FOR ACCURATELY SYNCHRONIZING PORTIONS OF AN AERIAL IMAGE WITH COMPOSITED VISUAL INFORMATION	Gowda, Sunil Byrne, Bryan Ward, Andy	Issued
56920-8010US6	UNITED STATES	15/789,617	October 20, 2017	11,315,202	April 26, 2022	February 9, 2028	COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Issued Maintenance Fee due 10/26/25
56920-8010AU	AUSTRALIA	2007216858	September 19, 2007	2007216858	August 6, 2009	September 19, 2027	COLLECTING AND REPRESENTING HOME ATTRIBUTES	Andersen, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Issued Annuity due 9/19 annually
56920-8015US	UNITED STATES	11/524,048	September 19, 2006	8,515,839	August 20, 2013	December 12, 2030	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Ma, Brian Chi-Yat Burstein, Jonathan Andersen, Timothy	Issued Third Maintenance Fee due 2/20/25
56920-8015US4	UNITED STATES	14/846,632	September 4, 2015	10,896,449	January 19, 2021	April 2, 2027	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Ma, Brian Chi-Yat Burstein, Jonathan Andersen, Timothy	Issued First Maintenance Fee due 7/19/24

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8016US1	UNITED STATES	11/943,695	November 21, 2007	8,510,349	August 13, 2013	September 28, 2030	MULTI-FACETED SEARCH	Puttick, Randy	Issued Third Maintenance Fee due 2/13/25
56920-8016US2	UNITED STATES	13/938,531	July 10, 2013	9,424,305	August 23, 2016	November 21, 2027	MULTI-FACETED SEARCH	Puttick, Randy	Issued Second Maintenance Fee due 2/23/24
56920-8016US3	UNITED STATES	15/212,504	July 18, 2016	10,521,191	December 31, 2019	January 7, 2029	MULTI-FACETED SEARCH	Puttick, Randy	Issued First Maintenance Fee due 6/30/23
56920-8018US1	UNITED STATES	12/031,436	February 14, 2008	8,095,434	January 10, 2012	March 28, 2029	AUTOMATICALLY PERFORMING VARYING LEVELS OF SUMMARIZATION OF GEOGRAPHIC DATA POINTS IN RESPONSE TO A USER'S SELECTION OF ZOOM LEVEL	Puttick, Randy Lewis, William M. Burroughs, John Gentzkow, Hauke Stein, Steven F.	Issued Third Maintenance Fee due 7/10/23
56920-8019US	UNITED STATES	11/971,758	January 9, 2008	8,140,421	March 20, 2012	March 8, 2030	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Burstein, Jonathan Bun, Yeng Utkis, Jonathan A.	Issued Third Maintenance Fee due 9/20/23
56920-8019US1	UNITED STATES	13/417,804	March 12, 2012	9,605,704	March 28, 2017	March 8, 2028	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Burstein, Jonathan Bun, Yeng Utkis, Jonathan A.	Issued Second Maintenance Fee due 9/28/24
56920-8019US2	UNITED STATES	14/709,719	May 12, 2015	11,449,958	September 20, 2022	July 22, 2037	AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Burstein, Jonathan Bun, Yeng Utkis, Jonathan A.	Issued First Maintenance Fee due 3/20/26
56920-8024US	UNITED STATES	13/044,480	March 9, 2011	10,460,406	October 29, 2019	September 14, 2031	AUTOMATICALLY DETERMINING MARKET RENTAL RATES FOR PROPERTIES	Humphries, Stanley Xiang, Dong Bun, Yeng	Issued First Maintenance Fee due 4/29/23
56920-8024US1	UNITED STATES	13/044,490	March 9, 2011	10,198,735	February 5, 2019	March 9, 2031	AUTOMATICALLY DETERMINING MARKET RENTAL RATES FOR PROPERTIES	Humphries, Stanley Xiang, Dong Bun, Yeng	Issued First Maintenance Fee due 8/5/2022
56920-8024US2	UNITED STATES	16/235,009	December 28, 2018	11,068,911	July 20, 2021	March 9, 2031	AUTOMATICALLY DETERMINING MARKET RENTAL RATES FOR PROPERTIES	Humphries, Stanley Xiang, Dong Bun, Yeng	Issued First Maintenance Fee due 1/20/25
56920-8024US3	UNITED STATES	16/665,426	October 28, 2019	11,288,756	March 29, 2022	January 28, 2032	AUTOMATICALLY DETERMINING MARKET RENTAL RATES FOR PROPERTIES	Humphries, Stanley Xiang, Dong Bun, Yeng	Issued Maintenance Fee due 9/29/25

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56920-8031US1	UNITED STATES	14/721,437	May 26, 2015	11,093,982	August 17, 2021		DETERMINE REGIONAL RATE OF RETURN ON HOME IMPROVEMENTS	Humphries, Stanley B. Fix, Matthew Carl Gudell, Svenja Maarit	Issued First Maintenance Fee due 2/17/25
56920-8032US2	UNITED STATES	13/841,413	March 15, 2013	10,332,138	June 25, 2019	March 13, 2033	ESTIMATING THE COST OF RESIDENTIAL REMODELING PROJECTS	Bruce, Andrew Acker, Kristin Poggi, Luis Wang, Chunyi Kutner, Alexander Schielke, Ben	Issued First Maintenance Fee due 02/25/24
56920-8038US	UNITED STATES	14/078,076	November 12, 2013	10,754,884	August 25, 2020	November 26, 2034	FLEXIBLE REAL ESTATE SEARCH	Dainler, Matthew Scott Dainler, Susan Beth	Issued First Maintenance Fee due 12/26/22
56920-8038US1	UNITED STATES	16/916,552	June 30, 2020	11,232,142	January 25, 2022	November 12, 2033	FLEXIBLE REAL ESTATE SEARCH	Dainler, Matthew Scott Dainler, Susan Beth	Issued
56920-8039US1	UNITED STATES	14/325,094	July 7, 2014	10,984,489	April 20, 2021	April 18, 2037	ESTIMATING THE VALUE OF A PROPERTY IN A MANNER SENSITIVE TO NEARBY VALUE-AFFECTING GEOGRAPHIC FEATURES	Bruce, Andrew Babb, Michael A. Wang, Chunyi	Issued First Maintenance Fee due 10/20/24
56920-8042US1	UNITED STATES	14/704,567	May 5, 2015	10,643,232	May 5, 2020	May 5, 2035	ALLOCATING ELECTRONIC ADVERTISING OPPORTUNITIES	Wang, Yiqing Humphries, Stanley B. Harford, Chloe Linden	Issued First Maintenance Fee due 11/25/23
56920-8042US2	UNITED STATES	16/748,172	January 21, 2020	11,354,701	June 7, 2022	June 26, 2035	ALLOCATING ELECTRONIC ADVERTISING OPPORTUNITIES	Wang, Yiqing Humphries, Stanley B. Harford, Chloe Linden	Issued First Maintenance Fee due 12/7/25
56920-8045US1	UNITED STATES	15/439,388	February 22, 2017	10,789,549	September 29, 2020	November 22, 2038	ENFORCING WITH RESPECT TO CHANGES IN ONE OR MORE DISTINGUISHED INDEPENDENT VARIABLE VALUES, MONOTONICITY IN THE PREDICTIONS PRODUCED BY A STATISTICAL MODEL	Bruce, Andrew Wang, Chunyi Bun, Yeng Martin, Andrew	Issued First Maintenance Fee due 3/29/24

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56920-8048US	UNITED STATES	12/924,037	September 16, 2010	10,380,653	August 13, 2019	August 12, 2013	VALUATION SYSTEM	Flint, Pete Andersen, Jesper Sparre Inkinen, Sami	Issued First Maintenance Fee due 2/13/23
56920-8049US1	UNITED STATES	13/245,584	September 26, 2011	10,078,679	September 18, 2018	September 26, 2031	VERIFYING THE VALIDITY AND STATUS OF DATA FROM DISPARATE SOURCES	Shefferman, David Parr, Alex	Issued Maintenance Fee due 3/18/26
56920-8049US2	UNITED STATES	16/102,333	August 13, 2018	10,872,100	December 22, 2020	September 26, 2031	VERIFYING THE VALIDITY AND STATUS OF DATA FROM DISPARATE SOURCES	Shefferman, David Parr, Alex	Issued First Maintenance Fee due 6/22/24
56920-8050US	UNITED STATES	13/797,363	March 12, 2013	9,361,583	June 7, 2016	December 23, 2033	MERGED RECOMMENDATIONS OF REAL ESTATE LISTINGS	Holloway, Todd Hatch, David Lin, Susan Blanchard, Brandon	Issued Second Maintenance Fee due 12/7/23
56920-8050US1	UNITED STATES	15/133,818	April 20, 2016	10,789,658	September 29, 2020	December 27, 2035	MERGED RECOMMENDATIONS OF REAL ESTATE LISTINGS	Holloway, Todd Hatch, David Lin, Susan Blanchard, Brandon	Issued First Maintenance Fee due 3/29/24
56920-8052US	UNITED STATES	13/797,380	March 12, 2013	11,256,725	February 22, 2022	September 6, 2035	NORMALIZATION OF CRIME BASED ON FOOT TRAFFIC	Hwang, Sha Salway, Talin Wu, Eric	Issued Maintenance Fee due 8/22/25
56920-8054US	UNITED STATES	14/060,380	October 22, 2013	10,783,530	September 22, 2020	June 12, 2035	THIRD PARTY EMAIL PARSING	Lange, Alexander L. Boydston, Rebekah T.	Issued First Maintenance Fee due 3/22/24
56920-8055US3	UNITED STATES	12/119,855	May 13, 2008	8,204,782	June 19, 2012	April 3, 2022	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Issued
56920-8055US6	UNITED STATES	14/250,219	April 10, 2014	10,296,991	May 21, 2019	April 3, 2022	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Issued First Maintenance Fee due 11/21/22
56920-8057US	UNITED STATES	14/325,078	July 7, 2014	10,430,902	October 1, 2019	May 30, 2037	AUTOMATIC UPDATING OF REAL ESTATE DATABASE	Rawat, Shourabh McConathy, Jeff Holloway, Todd Gopalakrishnan, Sriram Kulkarni, Abhinav	Issued First Maintenance Fee due 4/1/23
56920-8058US	UNITED STATES	14/558,390	December 2, 2014	9,990,639	June 5, 2018	December 18, 2035	AUTOMATIC DETECTION OF FRAUDULENT REAL ESTATE LISTINGS	Kong, Joseph Kulkarni Abhinav Holloway, Todd	Issued First Maintenance Fee due 12/5/21
56920-8061US1	UNITED STATES	12/589,099	October 16, 2009	9,330,375	May 3, 2016	July 20, 2031	INTERACTIVE REAL ESTATE CONTRACT AND NEGOTIATION TOOL	Allison, Gregory Austin Vorst, Matthew Allan	Issued Second Maintenance Fee due 11/3/23
56920-8061US2	UNITED STATES	13/542,768	July 6, 2012	8,375,016	February 12, 2013	October 16, 2029	INTERACTIVE REAL ESTATE CONTRACT AND NEGOTIATION TOOL	Allison, Gregory Austin Vorst, Matthew Allan	Issued Third Maintenance Fee due 8/12/24
56920-8061US3	UNITED STATES	15/131,747	April 18, 2016	11,393,057	July 19, 2022	October 16, 2029	INTERACTIVE REAL ESTATE CONTRACT AND NEGOTIATION TOOL	Allison, Gregory Austin Vorst, Matthew Allan	Issued First Maintenance Fee due 1/19/26

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56920-8062US1	UNITED STATES	13/547,118	July 12, 2012	9,858,548	January 2, 2018	December 8, 2033	SYSTEMS, METHODS AND APPARATUS FOR FORM BUILDING	Allison, Gregory Austin Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Issued Second Maintenance Fee due 7/2/25
56920-8062US2	UNITED STATES	13/547,120	July 12, 2012	10,108,928	October 23, 2018	January 10, 2033	SYSTEMS, METHODS AND APPARATUS FOR FORM BUILDING	Allison, Gregory Austin Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Issued First Maintenance Fee due 10/23/22
56920-8062US3	UNITED STATES	16/135,282	September 19, 2018	11,176,518	November 16, 2021	July 12, 2032	SYSTEMS, METHODS AND APPARATUS FOR FORM BUILDING	Allison, Gregory Austin Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Issued First Maintenance Fee due 5/16/25
56920-8063US2	UNITED STATES	14/177,656	February 11, 2014	10,826,951	November 3, 2020	July 19, 2034	ELECTRONIC CONTENT SHARING	Allison, Gregory Austin Hu, Justin Y. Vorst, Matthew Allan	Issued First Maintenance Fee due 5/3/24
56920-8063US3	UNITED STATES	17/022,644	September 16, 2020	11,258,837	February 22, 2022	February 11, 2034	ELECTRONIC CONTENT SHARING	Allison, Gregory Austin Hu, Justin Y. Vorst, Matthew Allan	Issued First Maintenance Fee due 8/22/25
56920-8064US	UNITED STATES	29/445,754	February 15, 2013	D727,927	April 28, 2015	April 28, 2030	DISPLAY SCREEN WITH ANIMATED USER INTERFACE	Allison, Gregory Austin Hu, Justin Y. Calvino, Christian Damian	Issued
56920-8066US	UNITED STATES	29/445,759	February 15, 2013	D727,335	April 21, 2015	April 21, 2030	DISPLAY SCREEN WITH ANIMATED USER INTERFACE	Allison, Gregory Austin Hu, Justin Y. Calvino, Christian Damian	Issued
56920-8067US	UNITED STATES	29/445,761	February 15, 2013	D727,336	April 21, 2015	April 21, 2030	DISPLAY SCREEN WITH ANIMATED USER INTERFACE	Allison, Gregory Austin Hu, Justin Y. Calvino, Christian Damian	Issued
56920-8068US	UNITED STATES	29/445,763	February 15, 2013	D727,928	April 28, 2015	April 28, 2030	DISPLAY SCREEN WITH ANIMATED USER INTERFACE	Allison, Gregory Austin Hu, Justin Y. Calvino, Christian Damian	Issued
56920-8069US1	UNITED STATES	14/243,128	April 2, 2014	9,575,622	February 21, 2017	June 12, 2034	SYSTEMS AND METHODS FOR ELECTRONIC SIGNATURE	Allison, Gregory Austin Hu, Justin Y.	Issued Third Maintenance Fee due 8/21/24
56920-8069US2	UNITED STATES	15/436,617	February 17, 2017	10,976,885	April 13, 2021	June 12, 2034	SYSTEMS AND METHODS FOR ELECTRONIC SIGNATURE	Allison, Gregory Austin Hu, Justin Y.	Issued First Maintenance Fee due 10/13/24
56920-8070US1	UNITED STATES	14/842,267	September 1, 2015	10,733,364	August 4, 2020	September 1, 2035	SIMPLIFIED FORM INTERFACE SYSTEM AND METHOD	Allison, Gregory Austin Hu, Justin Y. Pincioti, Daniel	Issued First Maintenance Fee due 2/4/24
56920-8071US1	UNITED STATES	14/620,262	February 12, 2015	10,552,525	February 4, 2020	February 12, 2035	SYSTEMS, METHODS AND APPARATUS FOR AUTOMATED FORM TEMPLATING	Allison, Gregory Austin Hu, Justin Y.	Issued First Maintenance Fee due 8/4/23
56920-8081US1	UNITED STATES	16/178,457	October 31, 2018	11,430,076	August 30, 2022	November 29, 2039	VIEW SCORES	Andrew Martin Benjamin Hudson	Issued First Maintenance Fee due 2/28/26
56920-8083US1	UNITED STATES	14/970,208	December 15, 2015	11,023,937	June 1, 2021	April 21, 2033	VALIDATION AND OPTIMIZATION IN AN ONLINE MARKETING PLATFORM FOR HOME SELLERS	Phillips, Alexandria Phillips, Richard	Issued First Maintenance Fee due 12/1/24
56920-8084US1	UNITED STATES	15/788,488	October 17, 2017	10,521,943	December 31, 2019	October 19, 2037	LOT PLANNING	Phillips, Richard Phillips, Alexandria	Issued First Maintenance Fee due 6/30/23
56920-8085US1	UNITED STATES	15/949,792	April 10, 2018	11,244,412	February 8, 2022	April 18, 2039	INTERFACE FOR UNCOMPLETED HOMES PLANNING	Phillips, Richard Phillips, Alexandria	Issued Maintenance Fee due 8/8/25

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56920-8032US3	UNITED STATES	16/445,699	June 19, 2019				ESTIMATING THE COST OF RESIDENTIAL REMODELING PROJECTS	Bruce, Andrew Acker, Kristin Poggi, Luis Wang, Chunyi Korner, Alexander Schielke, Ben	Allowed
56920-8038US2	UNITED STATES	16/930,603	July 16, 2020				FLEXIBLE REAL ESTATE SEARCH	Dainler, Matthew Scott Dainler, Susan Beth	Pending Response to Final Office Action due 12/19/22
56920-8048US1	UNITED STATES	16/449,210	June 21, 2019				VALUATION SYSTEM	Flint, Pete Andersen, Jesper Sparre Inkinen, Sari	Allowed
56920-8057US1	UNITED STATES	16/588,622	September 30, 2019				AUTOMATIC UPDATING OF REAL ESTATE DATABASE	Rawat, Shourabh McConathy, Jeff Holloway, Todd Gopalakrishnan, Sriram Kulkarni, Abhinav	Allowed Issue Fee due 11/2/22
56920-8069US3	UNITED STATES	17/194,651	March 8, 2021				SYSTEMS AND METHODS FOR ELECTRONIC SIGNATURE	Allison, Gregory Austin Hu, Justin Y.	Allowed Issue Fee due 11/2/22
56920-8070US2	UNITED STATES	16/911,122	June 24, 2020				SIMPLIFIED FORM INTERFACE SYSTEM AND METHOD	Allison, Gregory Austin Hu, Justin Y. Pinciotti, Daniel	Pending Response to Non- Final Office Action due 12/29/22
56920-8072US1	UNITED STATES	15/135,398	April 21, 2016				GENERATING PRICE INDICES AND MARKET FORECASTS BASED ON TRANSACTIONAL AND PROPERTY DATA	Allison, Gregory Austin Weeks, Justin David	Pending Response to Final Office Action due 10/26/22
56920-8074US	UNITED STATES	15/698,276	September 7, 2017				TIME ON MARKET AND LIKELIHOOD OF SALE PREDICTION	Humphries, Stanley B. Xiang, Dong Bun, Yeng Rao, Krishna Sheng, Eisa Sipola, Chris	Pending Response to Final Office Action due 1/19/23
56920-8081CA	CANADA	3036869	March 14, 2019				VIEW SCORES	Andrew Martin Benjamin Hudson	Pending Maintenance Fee due 3/14/23 Examination Request due 3/14/24
56920-8086US1	UNITED STATES	16/423,873	May 28, 2019				AUTOMATIC ANALYSIS OF REGIONAL HOUSING MARKET'S BASED ON THE APPRECIATION OR DEPRECIATION OF INDIVIDUAL HOMES	Humphries, Stanley B. Gross, Peter, Gudell, Svenja, Rao, Krishna	Pending Response to Final Office Action due 12/21/22
56920-8090US	UNITED STATES	17/025,330	September 18, 2020				GUIDED REAL ESTATE SEARCH USING CONTEXTUAL REFINEMENT	Abdallah, Farah, Lopatenko, Andrei, Agarwal, Tarun, Balagopalan, Arun, Gibbons, Jackson R.	Pending Response to Non- Final Office Action due 1/14/23
56920-8091US2	UNITED STATES	17/667,862	February 9, 2022				AUTOMATED HOME VALUATION USING QUANTIFIABLE DEGREES OF SIMILARITIES BETWEEN HOME ATTRIBUTES SYSTEMS AND METHODS	Fagnan, David Gill, Emily, Welch, Evan, Anderson, Jaime, Meyer, Jordan, Burden, Angela, Fix, Matthew, Zhao, Sinan, Martin, Andrew	Pending Response to Final Office Action due 12/6/22
56920-8004US3	UNITED STATES	17/559,715	December 22, 2021				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Chung, Kyusik Burstein, Jonathan	Pending

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56920-8010US8	UNITED STATES	17/703,125	March 24, 2022				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marc Harford, Chloe L. Brunker, Jeffrey T. Puttick, Randy	Pending
56920-8015US5	UNITED STATES	17/130,922	December 22, 2020				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER.	Ma, Brian Chi-Yat Burstein, Jonathan Andersen, Timothy	Pending Awaiting examination. Estimated first Office Action - 2/23
56920-8024US4	UNITED STATES	17/354,827	June 22, 2021				AUTOMATICALLY DETERMINING MARKET RENTAL RATES FOR PROPERTIES	Humphries, Stanley Xiang, Dong Bun, Yeng	Pending Awaiting examination. Estimated first Office Action - 10/22
56920-8026US2	UNITED STATES	17/231,880	April 15, 2021				LISTING PRICE-BASED HOME VALUATION MODELS	Humphries, Stanley Xiang, Dong Bun, Yeng	Pending
56920-8027US	UNITED STATES	15/715,098	September 25, 2017				MACHINE LEARNING TECHNIQUES TO CONSTRUCT AND APPLY HOME VALUATION MODELS THAT TAKE INTO ACCOUNT INFORMATION	Moghimi, Mohammad Fagnan, David Humphries, Stanley B. Stevens, Nicholas Thind, Jaspreet Fedus, William	Pending
56920-8028US1	UNITED STATES	14/524,148	October 27, 2014				AUTOMATICALLY ASSESSING A REAL ESTATE MARKET	Humphries, Stanley	Pending
56920-8031US2	UNITED STATES	17/373,446	January 12, 2021				DETERMINE REGIONAL RATE OF RETURN ON HOME IMPROVEMENTS	Humphries, Stanley B. Fix, Matthew Carl Gudell, Svenja Maarit	Pending
56920-8033US1	UNITED STATES	17/870,103	July 21, 2022				AUTOMATICALLY ESTIMATING A FUTURE VALUE FOR A HOME	Rao, Krishna	Pending Response to Missing Parts due 11/3/22
56920-8039US2	UNITED STATES	17/206,838	March 19, 2021				ESTIMATING THE VALUE OF A PROPERTY IN A MANNER SENSITIVE TO NEARBY VALUE-AFFECTING GEOGRAPHIC FEATURES	Bruce, Andrew Babb, Michael A. Wang, Chunyi	Pending
56920-8042US3	UNITED STATES	17,739/606	May 9, 2022				ALLOCATING ELECTRONIC ADVERTISING OPPORTUNITIES	Wang, Yiging Humphries, Stanley Harford, Chloe Linden	Pending

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56920-8045US2	UNITED STATES	17/002,969	August 26, 2020				ENFORCING, WITH RESPECT TO CHANGES IN ONE OR MORE DISTINGUISHED INDEPENDENT VARIABLE VALUES, MONOTONICITY IN THE PREDICTIONS PRODUCED BY A STATISTICAL MODEL.	Bruce, Andrew Wang, Chunyi Bun, Yeng Martin, Andrew	Pending
56920-8050US2	UNITED STATES	17/003,073	August 26, 2020				MERGED RECOMMENDATIONS OF REAL ESTATE LISTINGS	Holloway, Todd Hatch, David Lin Susan Blanchard, Brandon	Pending Awaiting examination. Estimated first Office Action - 4/23
56920-8054US1	UNITED STATES	17/027,356	September 21, 2020				THIRD PARTY EMAIL PARSING	Lange, Alexander L. Boydston, Rebekah T.	Pending
56920-8062US4	UNITED STATES	17/401,928	August 13, 2021				SYSTEMS, METHODS AND APPARATUS FOR FORM BUILDING	Alison, Gregory Austin Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Pending
56920-8063US4	UNITED STATES	17/575,004	January 13, 2022				ELECTRONIC CONTENT SHARING	Alison, Gregory Hu, Justin Vorst, Matthew	Pending
56920-8081US2	UNITED STATES	17/872,492	July 25, 2022				VIEW SCORES	Martin, Andrew, Hudson, Benjamin	Pending
56920-8085US2	UNITED STATES	17/569,153	January 5, 2022				INTERFACE FOR UNCOMPLETED HOMES PLANNING	Phillips, Richard Phillips, Alexandria	Pending
56920-8088US	UNITED STATES	16/457,390	June 28, 2019				VALUATION OF HOMES USING GEOGRAPHIC REGIONS OF VARYING GRANULARITY	Shahbazi, Nina Chahhou, Mohamed Meyer, Jordan	Pending
56920-8089US1	UNITED STATES	16/951,900	November 18, 2020				HOME VALUATION USING IDENTIFIED EXTERIOR AND INTERIOR FEATURES SYSTEMS AND METHODS	Kang, Sing Bing Ivaylo Boyadzhiev Mouzon, Pierre Li, Yujie	Pending
56920-8090WO	PCT	PCT/US21/50794	September 17, 2021				GUIDED REAL ESTATE SEARCH USING CONTEXTUAL REFINEMENT	Abdallah, Farah, Lopatenko, Andrei, Agarwal, Taron, Balagopalan, Arun, Gibbons, Jackson R.	Pending National Phase filings due 3/18/23
56920-8091US1	UNITED STATES	17/322,208	May 17, 2021				SYNTHETIC COMPARABLE MARKET ANALYSIS SYSTEMS AND METHODS	Fagnan, David Gill, Emily, Welch, Evan, Anderson, Jaime, Meyer, Jordan, Burden, Angela, Fix, Matthew, Zhao, Sinan, Martin, Andrew	Pending Awaiting examination. Estimated first Office Action - 9/23
56920-8091WO	PCT	PCT/US21/47723	August 26, 2021				SYNTHETIC COMPARABLE MARKET ANALYSIS SYSTEMS AND METHODS	Fagnan, David Gill, Emily, Welch, Evan, Anderson, Jaime, Meyer, Jordan, Burden, Angela, Fix, Matthew, Zhao, Sinan, Martin, Andrew	Pending National Phase filings due 2/26/23
56920-8092US1	UNITED STATES	17/536,929	November 29, 2021				CONFIDENT PROCESSING OF VALUATIONS FROM DISTRIBUTED MODELS SYSTEMS AND METHODS	Bin, He, McKay, Taylor, Zhiang, Mo, Vongsathorn, Xan, Martin, Andrew	Pending

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56920-8092WO	PCT	PCT/US21/47723	November 29, 2021				CONFIDENT PROCESSING OF VALUATIONS FROM DISTRIBUTED MODELS SYSTEMS AND METHODS	Bin, He, McKay, Taylor, Zhang, Mo, Vengsathorn, Xan, Martin, Andrew	Pending National Phase filings due 7/1/25
56920-8093US1	UNITED STATES	17/858,809	July 6, 2022				OPTIMIZED DYNAMIC CONTENT LOADING SYSTEMS AND METHODS	Larsen, Josh	Pending
56920-8095US	UNITED STATES	17/581,466	January 21, 2022				PROCESSING PROPERTY EMBEDDINGS TO LEARN RANKINGS OF COMPARABLE PROPERTIES SYSTEMS AND METHODS	Johnson, Reid	Pending
56920-8096US	UNITED STATES	17/859,872	July 7, 2022				SYSTEMS AND METHODS FOR REDUCING PERSONALIZED REAL ESTATE COLLECTION SUGGESTIONS DELAYS VIA BATCH GENERATION	Balaneshinkordan, Saeid, Linda, Ondrej, Jurascika, Kelsey, Liu, Kai, Zhao, Mangnan, Liao, Kevin, Vakil, Siddhi, Gnanayutham, Joshua,	Pending
56920-8097US	UNITED STATES	17/859,918	July 7, 2022				REARRANGING TAGS ON A GRAPHICAL USER INTERFACE (GUI) BASED ON KNOWN AND UNKNOWN LEVELS OF WEB TRAFFIC	Lin, Sangdi, Khazane, Anish, Harrison, Zachary, Foelker, Philip, Balaneshinkordan, Saeid, Urbanovsky, Joshua, Busy, George, Linda, Ondrej, Vakil, Siddhi, Gnanayutham, Joshua	Pending
56920-8098US	UNITED STATES	17/898,953	August 30, 2022				PROVIDING VISUAL INDICATIONS OF TIME SENSITIVE REAL ESTATE LISTING INFORMATION ON A GRAPHICAL USER INTERFACE (GUI)	Lin, Sangdi, Klevak, Egor, Urbanovsky, Joshua, Messenger, Michael, Linda, Ondrej, Vakil, Siddhi	Pending
56920-8001US	UNITED STATES	60/663,093	March 18, 2005			March 18, 2006	ONLINE REAL ESTATE AUCTIONS	Rascoff, Spencer Van der Meulen, Jorrit Bekemeyer, Scott Frink, Lloyd Acker, Kristin	Expired
56920-8001US1	UNITED STATES	11/378,620	March 17, 2006				ONLINE REAL ESTATE AUCTIONS	Rascoff, Spencer Van der Meulen, Jorrit Bekemeyer, Scott Frink, Lloyd Acker, Kristin Harford, Chloe	Abandoned
56920-8001WO	PCT	US2006/010065	March 17, 2006				ONLINE REAL ESTATE AUCTIONS	Rascoff, Spencer Van der Meulen, Jorrit Bekemeyer, Scott Frink, Lloyd Acker, Kristin Harford, Chloe	Abandoned
56920-8002US	UNITED STATES	60/663,317	March 18, 2005			March 18, 2006	INTERACTIVE FLOORPLAN VIEWER	Acker, Kristin Dunn, Letha Beitel, David McAuliffe, Garrett	Expired
56920-8002US1	UNITED STATES	60/663,559	March 18, 2005			March 18, 2006	INTERACTIVE FLOORPLAN VIEWER	Acker, Kristin Dunn, Letha Beitel, David McAuliffe, Garrett Frink, Lloyd	Expired

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56920-8002US2	UNITED STATES	11/384,009	March 17, 2006				INTERACTIVE FLOORPLAN VIEWER	Acker, Kristin Dunn, Letha Beitel, David McAuliffe, Garrett Frink, Lloyd	Abandoned
56920-8002WO	PCT	US2006/010064	March 17, 2006				INTERACTIVE FLOORPLAN VIEWER	Acker, Kristin Dunn, Letha Beitel, David McAuliffe, Garrett Frink, Lloyd	Abandoned
56920-8004GB	GREAT BRITAIN	701943.3	February 1, 2007				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A HOME	Humphries, Stanley Xiang, Dong Chung, Kyusik, Burstein, Jonathan	Abandoned
56920-8005GB	GREAT BRITAIN	701944.1	February 1, 2007				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Cheng, David A. Chung, Kyusik Humphries, Stanley Xiang, Dong Burstein, Jonathan	Abandoned
56920-8007US1	UNITED STATES	12/175,956	July 18, 2008				TECHNIQUES FOR ACCURATELY SYNCHRONIZING PORTIONS OF AN AERIAL IMAGE WITH COMPOSITED VISUAL INFORMATION	Cowda, Sunil Byrne, Bryan Wand, Andy	Abandoned
56920-8010CN	CHINA	2.0071B-11	September 19, 2007				COLLECTING AND REPRESENTING HOME ATTRIBUTES	Andersen, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010EP	EUROPE	7018380.1	September 19, 2007				COLLECTING AND REPRESENTING HOME ATTRIBUTES	Andersen, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US	UNITED STATES	11/524,047	September 19, 2006				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US1	UNITED STATES	14/852,418	September 11, 2015				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US2	UNITED STATES	14/982,338	December 29, 2015				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US3	UNITED STATES	15/096,363	April 12, 2016				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcin Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8010US4	UNITED STATES	15/220,518	July 27, 2016				COLLECTING AND REPRESENTING HOME ATTRIBUTES	Andersen, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcio Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US5	UNITED STATES	15/456,235	March 10, 2017				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcio Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8010US7	UNITED STATES	15/996,787	June 4, 2018				COLLECTING AND REPRESENTING HOME ATTRIBUTES	VanderMey, Timothy Sadaghiani, Fred F. McNamee, Stephen Szuster, Marcio Harford, Chloe L. Brinker, Jeffrey T. Puttick, Randy	Abandoned
56920-8013US	UNITED STATES	11/279,559	April 12, 2006				COORDINATING AERIAL IMAGE DATA FROM MULTIPLE PERSPECTIVES	Frink, Lloyd Cheng, David A. Whelan, Greg Gowda, Sunil Andersen, Timothy	Abandoned
56920-8015US1	UNITED STATES	13/943,604	July 16, 2013				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Ma, Brian Chi-Yat Burstein, Jonathan VanderMey, Timothy	Abandoned
56920-8015US2	UNITED STATES	14/191,388	February 26, 2014				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Ma, Brian Chi-Yat Burstein, Jonathan VanderMey, Timothy	Abandoned
56920-8015US3	UNITED STATES	14/318,536	June 27, 2014				AUTOMATICALLY DETERMINING A CURRENT VALUE FOR A REAL ESTATE PROPERTY, SUCH AS A HOME, THAT IS TAILORED TO INPUT FROM A HUMAN USER, SUCH AS ITS OWNER	Cheng, David Chung, Kyusik Humphries, Stanley B. Xiang, Dong Burstein, Jonathan Lee	Abandoned
56920-8016US	UNITED STATES	60/873,618	December 6, 2006			December 6, 2007	MULTI-FACETED SEARCH	Puttick, Randy	Expired
56920-8016US4	UNITED STATES	16/692,562	November 22, 2019				MULTI-FACETED SEARCH	Puttick, Randy	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8018US	UNITED STATES	61/014,346	December 17, 2007			December 17, 2008	AUTOMATICALLY PERFORMING VARYING LEVELS OF SUMMARIZATION OF GEOGRAPHIC DATA POINTS IN RESPONSE TO A USER'S SELECTION OF ZOOM LEVEL.	Puttick, Randy Lewis, William M Burroughs, John Gentzkow, Hauke Stein, Steven F.	Expired
56920-8018US2	UNITED STATES	13/240,392	September 22, 2011				AUTOMATICALLY PERFORMING VARYING LEVELS OF SUMMARIZATION OF GEOGRAPHIC DATA POINTS IN RESPONSE TO A USER'S SELECTION OF ZOOM LEVEL.	Puttick, Randy Lewis, William M Burroughs, John Gentzkow, Hauke Stein, Steven F.	Abandoned
56920-8018US3	UNITED STATES	14/875,948	October 6, 2015				AUTOMATICALLY PERFORMING VARYING LEVELS OF SUMMARIZATION OF GEOGRAPHIC DATA POINTS IN RESPONSE TO A USER'S SELECTION OF ZOOM LEVEL.	Puttick, Randy Lewis, William M Burroughs, John Gentzkow, Hauke Stein, Steven F.	Abandoned
56920-8020US	UNITED STATES	11/927,623	October 29, 2007				TARGETING ELECTRONIC ADVERTISING TO PEOPLE BASED ON INTERESTS RELATING TO REAL ESTATE	Humphries, Stanley Zhang, Maria R. Schwartz, Greg Xu, Leon L. Chen, Ji	Abandoned
56920-8022US	UNITED STATES	12/417,498	April 2, 2009				Zillow Mortgage Marketplace	Moch, Nate Rottweiler, Cole T. Lubetkin, Jeffrey A. Humphries, Stanley Xiang, Dong Frink, Lloyd Roberts, Christopher Brooks, Edward S. Miller, Mary P. Dawson, David M.	Abandoned
56920-8022US1	UNITED STATES	13/860,009	April 10, 2013				Zillow Mortgage Marketplace	Moch, Nate Rottweiler, Cole T. Lubetkin, Jeffrey A. Humphries, Stanley Xiang, Dong Frink, Lloyd Roberts, Christopher Brooks, Edward S. Miller, Mary P. Dawson, David M.	Abandoned
56920-8022US2	UNITED STATES	13/860,111	April 10, 2013				Zillow Mortgage Marketplace	Moch, Nate Rottweiler, Cole T. Lubetkin, Jeffrey A. Humphries, Stanley Xiang, Dong Frink, Lloyd Roberts, Christopher Brooks, Edward S. Miller, Mary P. Dawson, David M.	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8026US	UNITED STATES	61/706,241	September 27, 2012			September 27, 2013	LISTING PRICE-BASED PROPERTY VALUATION MODEL	Humphries, Stanley Xiang, Dong Bun, Yeng	Expired
56920-8026US1	UNITED STATES	13/828,680	March 14, 2013				LISTING PRICE-BASED HOME VALUATION MODELS	Humphries, Stanley Xiang, Dong Bun, Yeng	Abandoned
56920-8028US	UNITED STATES	61/909,800	November 27, 2013			November 27, 2014	AUTOMATICALLY ASSESSING A REAL ESTATE MARKET	Humphries, Stanley	Expired
56920-8030US	UNITED STATES	61/768,292	February 22, 2013			February 22, 2014	TIME ON MARKET PREDICTION	Humphries, Stanley Xiang, Dong Bun, Yeng	Expired
56920-8030US1	UNITED STATES	13/843,577	March 15, 2013				TIME ON MARKET AND LIKELIHOOD OF SALE PREDICTION	Humphries, Stanley Xiang, Dong Bun, Yeng	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8031US	UNITED STATES	62/059,048	October 2, 2014			October 2, 2015	DETERMINE REGIONAL RATE OF RETURN ON HOME IMPROVEMENTS	Humphries, Stanley B. Fix, Matthew Carl Gudell, Svenja Maarit	Expired
56920-8032US	UNITED STATES	61/761,153	February 5, 2013			February 5, 2014	NESTIMATES	Bruce, Andrew Acker, Kristin Poggi, Luis Wang, Chunyi	Expired
56920-8032US1	UNITED STATES	13/799,235	March 13, 2013				ESTIMATING THE COST OF RESIDENTIAL REMODELING PROJECTS	Bruce, Andrew Acker, Kristin Poggi, Luis Wang, Chunyi Kärner, Alexander Schielke, Ben	Abandoned
56920-8033US	UNITED STATES	14/640,860	March 6, 2015				AUTOMATICALLY ESTIMATING A FUTURE VALUE FOR A HOME	Rao, Krishna	Abandoned
56920-8034US	UNITED STATES	14/041,450	September 30, 2013				FORECLOSURE ZESTIMATE	Humphries, Stanley Xiang, Dong Bur, Yong	Abandoned
56920-8036US	UNITED STATES	13/830,497	March 14, 2013				AUTOMATICALLY DETERMINING A NEGATIVE EQUITY METRIC FOR A HOME	Humphries, Stanley Gudell, Svenja Maarit	Abandoned (*see 8036 US01)

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8036US1	UNITED STATES	16/129,282	September 12, 2018				AUTOMATICALLY DETERMINING A NEGATIVE EQUITY METRIC FOR A HOME	Humphries, Stanley Gudell, Svenja Maarit	Abandoned
56920-8037US	UNITED STATES	61/613,430	March 20, 2012			March 20, 2013	SYSTEM AND METHOD FOR APPLYING FOR APARTMENT RENTAL	Vivero, David A. Shah, Kunal Azoff, Jonathan Leary, Alex Masquelier, Dan	Expired
56920-8037US1	UNITED STATES	13/829,348	March 14, 2013				PROCESS OF FACILITATING PROPERTY RENTAL	Vivero, David A. Shah, Kunal Azoff, Jonathan Leary, Alex Masquelier, Dan	Abandoned
56920-8039US	UNITED STATES	61/939,268	February 13, 2014			February 13, 2015	ESTIMATING THE VALUE OF A PROPERTY IN A MANNER SENSITIVE TO NEARBY VALUE-AFFECTING GEOGRAPHIC FEATURES	Bruce, Andrew Murphy, James Avararam, Michalis Dong, Xiang	Expired
56920-8042US	UNITED STATES	62/135,001	March 18, 2015			March 18, 2016	ALLOCATING ELECTRONIC ADVERTISING OPPORTUNITIES	Wang, Tammy Humphries, Stanley B. Harford, Chloe Linden	Expired
56920-8045US	UNITED STATES	62/300,054	February 25, 2016			February 25, 2017	ENFORCING, WITH RESPECT TO CHANGES IN ONE OR MORE DISTINGUISHED INDEPENDENT VARIABLE VALUES, MONOTONICITY IN THE PREDICTIONS PRODUCED BY A STATISTICAL MODEL	Bruce, Andrew Wang, Chunyi Bui, Yeng Martin, Andrew	Expired
56920-8047US	UNITED STATES	11/525,114	September 20, 2006				GENERATING ESTIMATED PRICE INFORMATION FOR A REAL ESTATE MARKET	Flint, Pete Glenn, Jamie Iokinen, Sami	Abandoned
56920-8049US	UNITED STATES	61/386,800	September 27, 2010			September 27, 2011	VERIFYING THE VALIDITY AND STATUS OF DATA FROM DISPARATE SOURCES	Shefferman, David Parr, Alex	Expired
56920-8051US	UNITED STATES	13/797,375	March 12, 2013				NEIGHBORHOOD BASED INFORMATION SUMMARY	Yarger, Steve Thompson, Sean	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8053US	UNITED STATES	61/674,302	July 21, 2012			July 21, 2013	A METHOD, SOFTWARE SYSTEM AND DATA MODEL FOR AGGREGATING, STORING, DISTRIBUTING AND REPRESENTING REAL ESTATE DATA WITH AN ALGORITHM TO AUTOMATICALLY GENERATE INTERNET LANDING PAGES BASED ON FREQUENT USER-INITIATED SEARCH QUERIES	Dorfman, Ilya	Expired
56920-8053US1	UNITED STATES	13/943,673	July 16, 2013				AUTOMATED LANDING PAGE GENERATION AND PROMOTION FOR REAL ESTATE LISTINGS	Dorfman, Ilya	Abandoned
56920-8053WG	PCT	US2013/05076	July 16, 2013				AUTOMATED LANDING PAGE GENERATION AND PROMOTION FOR REAL ESTATE LISTINGS	Dorfman, Ilya	Abandoned
56920-8055US	UNITED STATES	09/383,196	August 26, 1999	6,578,011	June 10, 2003	January 27, 2020	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Expired
56920-8055US1	UNITED STATES	10/446,053	May 28, 2003	6,970,835	November 29, 2005	November 27, 2019	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Expired
56920-8055US2	UNITED STATES	11/182,400	July 15, 2005	7,392,205	June 24, 2008	March 25, 2020	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Expired
56920-8055US4	UNITED STATES	13/489,664	June 6, 2012	8,626,583	January 7, 2014	August 26, 2019	SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Expired
56920-8055US5	UNITED STATES	14/144,465	December 30, 2013				SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Abandoned

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8055US7	UNITED STATES	16/380,714	April 10, 2019				SYSTEM AND METHOD FOR DIRECTING AND INSTRUCTING CUSTOMERS TO DEAL WITH SPECIFIC MERCHANTS USING INCENTIVES	Forward, David R.	Abandoned
56920-8056US	UNITED STATES	14/297,496	June 5, 2014				SYSTEM FOR PROVIDING CONTEXT INFORMATION TO A REAL ESTATE AGENT	Javaherian, Arman Shevade, Neha Gruhl, Jason Correia, Tim	Abandoned
56920-8060US	UNITED STATES	61/564,874	November 30, 2011			November 30, 2012	TRANSACTION-BASED SALES LEAD GENERATION SYSTEM	Allison, Gregory Austin, Vorst, Matthew Allan	Expired
56920-8060US1	UNITED STATES	61/657,958	June 11, 2012			June 11, 2013	SYSTEMS AND METHODS FOR TRANSACTION-BASED SALES LEAD GENERATION	Allison, Gregory Austin, Vorst, Matthew Allan	Expired
56920-8060US2	UNITED STATES	13/688,955	November 29, 2012				SYSTEMS AND METHODS FOR TRANSACTION-BASED SALES LEAD GENERATION SYSTEM	Allison, Gregory Austin, Vorst, Matthew Allan	Abandoned
56920-8061US	UNITED STATES	61/196,619	October 17, 2008			October 17, 2009	INTERACTIVE REAL ESTATE CONTRACT AND NEGOTIATION TOOL	Allison, Gregory Austin	Expired
56920-8061WO	PCT	PCT/US09/61012	October 16, 2009				INTERACTIVE REAL ESTATE CONTRACT AND NEGOTIATION TOOL	Allison, Gregory Austin, Vorst, Matthew Allan	Abandoned
56920-8062US	UNITED STATES	61/548,281	October 18, 2011			October 18, 2012	FORM BUILDER	Allison, Gregory Austin, Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Expired
56920-8062WO	PCT	PCT/US12/46386	July 12, 2012				SYSTEMS, METHODS AND APPARATUS FOR FORM BUILDING	Allison, Gregory Austin, Vorst, Matthew Allan Jayaram, Nandagopal Mysore	Abandoned
56920-8063US	UNITED STATES	61/763,278	February 11, 2013			February 11, 2014	ELECTRONIC CONTENT SHARING	Allison, Gregory Austin, Hu, Justin Y. Vorst, Matthew Allan	Expired
56920-8063US1	UNITED STATES	61/875,352	September 9, 2013			September 9, 2014	ELECTRONIC CONTENT SHARING	Allison, Gregory Austin, Hu, Justin Y. Vorst, Matthew Allan	Expired
56920-8065US	UNITED STATES	29/445,801	February 15, 2013				DISPLAY SCREEN WITH ANIMATED USER INTERFACE	Allison, Gregory Austin, Hu, Justin Y. Calvino, Christian Damian	Abandoned
56920-8069US	UNITED STATES	61/807,471	April 2, 2013			April 2, 2014	SYSTEMS AND METHODS FOR ELECTRONIC SIGNATURE	Allison, Gregory Austin, Hu, Justin Y.	Expired
56920-8070US	UNITED STATES	62/044,514	September 2, 2014			September 2, 2015	SIMPLIFIED FORM INTERFACE SYSTEM AND METHOD	Allison, Gregory Austin, Hu, Justin Y. Pinciotti, Daniel	Expired
56920-8071US	UNITED STATES	61/938,741	February 12, 2014			February 12, 2015	SYSTEMS, METHODS AND APPARATUSES FOR AUTOMATED FORM TEMPLATING	Allison, Gregory Austin, Hu, Justin Y.	Expired

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8072US	UNITED STATES	62/150,616	April 21, 2015			April 21, 2016	TECHNOLOGIES FOR GENERATING PRICE INDICES AND MARKET FORECASTS BASED ON TRANSACTIONAL AND PROPERTY DATA	Alison, Gregory Austin Weeks, Justin David	Expired
56920-8073US	UNITED STATES	15/446,283	March 1, 2017				MACHINE LEARNING TECHNIQUES REGARDING THE RELATIVE MERIT OF LISTING A HOME FOR SALE AT DIFFERENT TIMES OF THE YEAR	Anderson, James Bernard Rao, Krishna	Abandoned
56920-8077US	UNITED STATES	62/409,818	October 18, 2016				DECISION SUPPORT SYSTEM FOR HOMEBUILDERS	Barford, Chloe L. Brownell, Stephen Anderson, James Wohlman, Lucy Poggi, Luis Enrique	Abandoned
56920-8077US1	UNITED STATES	62/410,295	October 19, 2016				DECISION SUPPORT SYSTEM FOR HOMEBUILDERS	Barford, Chloe L. Brownell, Stephen Anderson, James Wohlman, Lucy Poggi, Luis Enrique	Abandoned
56920-8081US	UNITED STATES	62/676,238	May 24, 2018				VIEW SCORES	Andy Martin Benjamin Hudson Jasjeet Thind	Expired
56920-8082US	UNITED STATES	61/257,796	November 3, 2009				ONLINE MARKETING PLATFORM FOR HOME SELLERS	Phillips, Alexandria Phillips, Rick O'Shaughnessy, Robert	Expired
56920-8082US1	UNITED STATES	12/904,828	October 14, 2010				ONLINE MARKETING PLATFORM FOR HOME SELLERS	Phillips, Alexandria Phillips, Richard O'Shaughnessy, Robert	Abandoned
56920-8083US	UNITED STATES	62/093,384	December 17, 2014				VALIDATION AND OPTIMIZATION IN AN ONLINE MARKETING PLATFORM FOR HOME SELLERS	Phillips, Alexandria Phillips, Rick	Expired
56920-8084US	UNITED STATES	62/411,071	October 21, 2016				METHOD, SYSTEM AND APPARATUS FOR LOT PLANNING	Phillips, Richard Phillips, Alexandria	Expired
56920-8085US	UNITED STATES	62/505,765	May 12, 2017				INTERFACE FOR NEW CONSTRUCTION PLANNING	Phillips, Richard Phillips, Alexandria	Expired
56920-8086US	UNITED STATES	62/821,159	March 20, 2019				PAIRED HOME PRICE ESTIMATE INDEX	Gudell, Svenja Humphries, Stanley B. Gross, Peter, Srivastava, Kandarp	Expired
56920-8089US	UNITED STATES	62/938,765	November 21, 2019				HOME VALUATION USING IDENTIFIED EXTERIOR AND INTERIOR FEATURES SYSTEMS AND METHODS	Kang, Sing Bing Ivaylo Boyadzhiev Mouron, Pierre Li, Yujie	Expired
56920-8091US	UNITED STATES	63/070,420	August 26, 2020				SYNTHETIC COMPARABLE MARKET ANALYSIS SYSTEMS AND METHODS	Martin, Andrew, Gill, Emily, Burden, Angela	Expired
56920-8092US	UNITED STATES	63/120,864	December 1, 2020				STANDING OFFERS VALUATION FOR HOMES SYSTEMS AND METHODS	Bm, He, McKay, Taylor, Zhang, Mo, Vongsathorn, Xan, Martin, Andrew	Expired

FILE NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXPIRATION DATE	TITLE	INVENTORS	STATUS
56920-8093US	UNITED STATES	63/219,122	July 7, 2021				OPTIMIZED DYNAMIC CONTENT LOADING SYSTEMS AND METHODS	Larsen, Josh	Expired

3D HOME ISSUED PATENTS AND PENDING PATENT APPLICATIONS

FILE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
381 Patent Family - 3D Home (3DH) House Interior Data Capture (re: capture images and create 'virtual tour' of inter-linked panos - co-filed with 402)									
990074.401	Issued	House Interior Data Capture	USA	7/13/2017	7/13/2017	15,649,427	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 10,375,306	Issued 08/06/2019 - to expire 10/01/2037 (if maintenance fees paid) 3.5 yr maint. fee due 02/06/2023
990074.401C1	Issued	House Interior Data Capture #2	USA	6/18/2019	7/13/2017	16/443,881	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 11,057,561	Issued 07/06/2021 - to expire 07/21/2037 (if maintenance fees paid) 3.5 yr maint. fee due 01/06/2025
990074.401C2	Pending	House Interior Data Capture #3	USA	7/5/2021	7/13/2017	17/367,425	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan		1st NF Office Action received , with initial response date of 11/04/2022
990074.401CA	Issued	House Interior Data Capture and Panorama Connection -CA	Canada	7/13/2018	7/13/2017	3,069,813	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 3,069,813	Issued 07/06/2021 - to expire 07/13/2038
382 Patent Family - 3DH Pano Connection Process (re: inter-link panos using 3+ of data from movement between panos and/or visual data of panos - co-filed with 401)									
990074.402	Issued	Panorama Connection Process	USA	7/13/2017	7/13/2017	15,649,434	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 10,530,997	Issued 01/07/2020 - to expire 09/01/2037 (if maintenance fees paid) 3.5 yr maint. fee due 07/07/2023
990074.402C1	Issued	Panorama Connection Process #2	USA	11/23/2019	7/13/2017	16,693,286	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 10,834,317	Issued 11/10/2020 - to expire 07/13/2037 (if maintenance fees paid) 3.5 yr maint. fee due 05/10/2024
990074.402C2	Issued	Panorama Connection Process #3	USA	10/7/2020	7/13/2017	17/064,601	Ivaylo Boyadzhiev, Qi Shan, Alex Colburn, Li Guan	Patent No. 11,164,361	Issued 11/02/2021 - to expire 07/13/2037 (if maintenance fees paid) 3.5 yr maint. fee due 05/02/2025
383 Patent Family - 3DH Automated Panos-To-Floor Map (re: generate floor plan using inter-linked panos, given input of room shapes)									
990074.403	Issued	Automated Panos-To-Floor Map	USA	11/14/2018	10/11/2018	16,190,162	Qi Shan, Alex Colburn, Li Guan, Ramin Mehran	Patent No. 10,809,066	Issued 10/20/2020 - to expire 11/14/2038 (if maintenance fees paid) 3.5 yr maint. fee due 04/20/2024
990074.403D1	Issued	Automated Panos-To-Floor Map #2	USA	9/12/2020	10/11/2018	17/019,247	Qi Shan, Alex Colburn, Li Guan, Ramin Mehran	Patent No. 11,408,738	Issued 08/09/2022 - to expire 11/14/2038 (if maintenance fees paid) 3.5 yr maint. fee due 02/09/2026
990074.403C1	Issued	Automated Panos-To-Floor Map #3 (Graph-View Display)	USA	9/17/2021	10/11/2018	17/478,740	Qi Shan, Alex Colburn, Li Guan, Ramin Mehran	Patent No. 11,480,433	Issued 10/25/2022 - to expire 11/14/2038 (if maintenance fees paid) 3.5 yr maint. fee due 04/25/2026
990074.403CA	Pending	Automated Panos-To-Floor Map -CA	Canada	10/9/2019	10/11/2018	3,058,602	Qi Shan, Alex Colburn, Li Guan, Ramin Mehran		Notice Of Allowance received , with response date of 12/16/2022
384 Patent Family - 3DH Inter-Pano Transitions UI (re: generate and display image sequence transition between 2 linked panos)									
990074.404	Issued	Inter-Pano Transitions UI	USA	4/11/2018	4/11/2018	15,950,881	Li Guan, Yuguang Li	Patent No. 10,543,386	Issued 05/05/2020 - to expire 05/24/2038 (if maintenance fees paid) 3.5 yr maint. fee due 11/05/2023
990074.404C1	Issued	Inter-Pano Transitions UI #2	USA	4/30/2020	4/11/2018	16/864,011	Li Guan, Yuguang Li	Patent No. 11,217,019	Issued 01/04/2022 - to expire 04/11/2038 (if maintenance fees paid) 3.5 yr maint. fee due 07/04/2025
990074.404CA	Issued	Inter-Pano Transitions UI -CA	Canada	3/14/2019	4/11/2018	3,096,601	Li Guan, Yuguang Li	Patent No. 3,096,601	Issued 04/27/2021 - to expire 03/14/2039 (if annuity fees paid) next annuity fee due 03/14/2022
385 Patent Family - 3DH Pano Creation GUI Using IMU Feedback (re: a GUI to direct operator user where to acquire images in a circle for 360° panos)									
990074.405	Issued	Pano Creation GUI Using IMU Feedback	USA	12/28/2018	10/11/2018	16/236,187	Li Guan, Mitchell Dawson, Andrew Otwell, Dun-Yu Hsiao	Patent No. 10,708,507	Issued 07/07/2020 - to expire 12/28/2038 (if maintenance fees paid) 3.5 yr maint. fee due 01/07/2024

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
990074.405C1	Issued	Next Acquisition Location Guidance (Pano Creation GUI #2)	USA	10/28/2020	10/11/2018	17/082,044	Li Guan, Mitchell Dawson, Andrew Otwell, Dun-Yu Hsiao	Patent No. 11,284,006	Issued 03/22/2022 - to expire 12/28/2038 (if maintenance fees paid) 3.5 yr maint. fee due 09/22/2025
990074.405C2	Pending	GUI Icon Status Updates (Pano Creation GUI #3)	USA	8/21/2020	10/11/2018	17/000,236	Li Guan, Mitchell Dawson, Andrew Otwell, Dun-Yu Hsiao		1st NF Office Action received, with initial response date of 12/15/2022
990074.405C3	Issued	Using 6 Degrees Of Freedom (Pano Creation GUI #4)	USA	10/28/2020	10/11/2018	17/082,053	Li Guan, Mitchell Dawson, Andrew Otwell, Dun-Yu Hsiao	Patent No. 11,405,558	Issued 08/02/2022 - to expire 12/28/2038 (if maintenance fees paid) 3.5 yr maint. fee due 02/02/2026
990074.405C4	Pending	Mobile App Capture (Pano Creation GUI #5)	USA	7/6/2020	10/11/2018	16/920,770	Li Guan, Mitchell Dawson, Andrew Otwell, Dun-Yu Hsiao		1st NF Office Action received, with initial response date of 11/17/2022
990074.405AU	Pending	Pano Creation GUI Using IMU Feedback -AU	Australia	10/9/2019	10/11/2018	2019356907	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao		Awaiting next Action, after response to 1st Office Action filed 09/2022
990074.405CA	Pending	Pano Creation GUI Using IMU Feedback -CA	Canada	10/9/2019	10/11/2018	3,113,355	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao		Awaiting next Action, after response to 1st Office Action filed 09/2022
990074.405CN	Pending	Pano Creation GUI Using IMU Feedback -CN	China	10/9/2019	10/11/2018	201980082577.2	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao		Awaiting 1st Office Action - converted into CN on 06/11/2021
990074.405EP	Pending	Pano Creation GUI Using IMU Feedback -EP	EPO	10/9/2019	10/11/2018	19871710.0	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao		Awaiting 1st Office Action - converted into EPO on 05/11/2021
990074.405IN	Pending	Pano Creation GUI Using IMU Feedback -IN	India	10/9/2019	10/11/2018	202117020924	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao		Awaiting next Action, after response to 1st Office Action filed 09/2022

406 & 406CIP Patent Families - 3DH User-Assisted Floor Map Generation (e.g., using manual input to fit room shapes and wall opening shapes to images)

990074.406	Issued	User-Assisted Floor Map Generation	USA	3/2/2020	8/28/2019	16/807,135	Yuguang Li, Grant Gingell, Ivaylo Boyadzhiev	Patent No. 11,243,656	Issued 02/08/2022 - to expire 07/13/2040 (if maintenance fees paid) 3.5 yr maint. fee due 08/08/2025
990074.406CIP	Pending	User-Assisted Floor Map Generation #2 -CIP	USA	2/7/2022	8/28/2019 (original subject matter) & 02/06/2022 (new s.41)	17/666,499	Yuguang Li, Ivaylo Boyadzhiev, Lambert E. Wikson		Awaiting 1st Office Action
990074.406CA	Pending	User-Assisted Floor Map Generation -CA	Canada	8/20/2020	8/28/2019	3,090,629	Yuguang Li, Grant Gingell, Ivaylo Boyadzhiev		Notice Of Allowance received, with response date of 02/06/2023

407 & 407CIP Patent Families - 3DH Integrated Floor Map / Media GUI (re: IMR-type app GUI, with multiple panes showing linked information of multiple types)

990074.407	Issued	Integrated Floor Map / Media GUI	USA	11/12/2019	11/12/2019	16/681,787	Joshuah Vincent, Ivaylo Boyadzhiev, Romualdo Impas, Yuguang Li, Pierre Moulon	Patent No. 10,825,247	Issued 11/03/2020 - to expire 11/12/2039 (if maintenance fees paid) 3.5 yr maint. fee due 05/03/2024
990074.407C1	Issued	Integrated Floor Map / Media GUI #2	USA	10/7/2020	11/12/2019	17/064,608	Romualdo Impas, Joshuah Vincent, Ivaylo Boyadzhiev, Yuguang Li, Pierre Moulon	Patent No. 11,238,654	Issued 02/01/2022 - to expire 11/12/2039 (if maintenance fees paid) 3.5 yr maint. fee due 08/01/2025
990074.407CIP (CIP of 407)	Pending	Integrated Floor Map / Media GUI #3 -CIP	USA	1/31/2022	11/12/2019 (original subject matter) & 01/31/2022 (new s.41)	17/589,842	Yuguang Li, Romualdo Impas, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.407CA	Pending	Integrated Floor Map / Media GUI -CA	Canada	10/27/2020	11/12/2019	3,097,163	Joshuah Vincent, Ivaylo Boyadzhiev, Romualdo Impas, Yuguang Li, Pierre Moulon		Awaiting next Office Action, after 10/2022 response to 4th Office Action

408 Patent Family - 3DH Floor Map Lighting Simulation (re: providing lighting simulation information on 2.5D/3D building models, such as for specified times)

990074.408	Issued	Floor Map Lighting Simulation	USA	4/6/2020	10/7/2019	16/841,581	Joshuah Vincent, Pierre Moulon, Ivaylo Boyadzhiev, Joshuah David Maruska	Patent No. 11,164,368	Issued 11/02/2021 - to expire 04/06/2040 (if maintenance fees paid) 3.5 yr maint. fee due 05/02/2025
990074.408C1	Pending	Floor Map Lighting Simulation #2	USA	10/5/2021	10/7/2019	17/494,715	Joshuah Vincent, Pierre Moulon, Ivaylo Boyadzhiev, Joshuah David Maruska		Awaiting 1st Office Action
990074.408CA	Pending	Floor Map Lighting Simulation -CA	Canada	10/5/2020	10/7/2019	3,095,189	Joshuah Vincent, Pierre Moulon, Ivaylo Boyadzhiev, Joshuah David Maruska		Awaiting next Office Action, after 02/2022 response to 1st Office Action

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO	INVENTORS	GRANT NO	STATUS
389 Patent Family - 3D Video-to-Floor Map (re: generating a floor plan from a continuous video taken throughout building, such as using a 360° camera)									
990074.409	Issued	Video-To-Floor Map	USA	10/26/2020	10/28/2019	17/080,604	Pierre Moulon, Ivaylo Boyadzhev	Patent No. 11,165,959	Issued 11/02/2021 - to expire 10/26/2040 (if maintenance fees paid) 3.5 yr maint. fee due 05/02/2025
990074.409C1	To Be Issued	Video-To-Floor Map #2	USA	10/4/2021	10/28/2019	17/493,701	Pierre Moulon, Ivaylo Boyadzhev		Patent No. 11,494,973 To Be Issued 11/08/2022 - to expire 10/26/2040 (if maintenance fees paid) 3.5 yr maint. fee due 05/08/2026
990074.409CA	Issued	Video-To-Floor Map -CA	Canada	10/27/2020	10/28/2019	3,097,164	Pierre Moulon, Ivaylo Boyadzhev	Patent No. 3,097,164	Issued 09/06/2022 - to expire 10/27/2040 (if annuity fees paid) next annuity fee due 10/27/2023

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO	INVENTORS	GRANT NO	STATUS
410 Patent Family - 3D Image Localization On Floor Plan (re: determine image's acquisition location by matching to a grid of defined feature vectors)									
990074.410	Pending	Image Localization On Floor Plan	USA	9/4/2020	9/4/2020	17/013,323	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting expected issuance, after 10/2022 issue fee payment
990074.410AU	Pending	Image Localization On Floor Plan -AU	Australia	8/3/2021	9/4/2020	2021211999	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting next Action, after response to 1st Office Action filed 10/2022 06/09/2023 is deadline to resolve all rejections
990074.410CA	Pending	Image Localization On Floor Plan -CA	Canada	8/4/2021	9/4/2020	3,126,673	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.410CN	Pending	Image Localization On Floor Plan -CN	China	8/31/2021	9/4/2020	202111010492.9	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.410EP	Pending	Image Localization On Floor Plan -EP	EPO	8/12/2021	9/4/2020	21191114.4	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting next Action, after response to 1st Office Action filed 09/2022
990074.410IN	Pending	Image Localization On Floor Plan -IN	India	8/12/2021	9/4/2020	202114036585	Pierre Moulon, Najj Khosravan, Yuguang Li, Yujie Li, Ivaylo Boyadzhev		Awaiting next Action, after response to 1st Office Action filed 09/2022 01/13/2023 is deadline to resolve all rejections

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO	INVENTORS	GRANT NO	STATUS
411 Patent Family - 3D Pano Geometry-to-Floor Plan (re: generate floor plan using inter-linked panos, including via graph search and next-room recommendations)									
990074.411	Pending	Room Pano Geometry-To-Floor Plan	USA	10/13/2020	10/13/2020	17/069,800	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.411AU	Pending	Room Pano Geometry-To-Floor Plan -AU	Australia	10/1/2021	10/13/2020	2021240285	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.411CA	Pending	Room Pano Geometry-To-Floor Plan -CA	Canada	10/4/2021	10/13/2020	3,132,952	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.411CN	Pending	Room Pano Geometry-To-Floor Plan -CN	China	10/13/2021	10/13/2020	202111195315.2	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.411EP	Pending	Room Pano Geometry-To-Floor Plan -EP	EPO	10/13/2021	10/13/2020	21202386.5	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting next Action, after 10/2022 response to 1st Office Action
990074.411IN	Pending	Room Pano Geometry-To-Floor Plan -IN	India	10/6/2021	10/13/2020	202114045519	Yuguang Li, Pierre Moulon, Lambert Wixson, Christopher Buehler, Ivaylo Boyadzhev		Awaiting next Action, after 10/2022 response to 1st Office Action 02/17/2023 is deadline to resolve all rejections

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO	INVENTORS	GRANT NO	STATUS
412 Patent Family - 3D Floor Plan Search Via Adjacency &/or Attributes (re: do search for buildings with floor plans similar to others or that otherwise meet criteria)									
990074.412	Pending	Floor Plan Search Via Adjacency &/or Attributes	USA	9/10/2021	9/22/2020	17/472,527	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.412AU	Pending	Floor Plan Search Via Adjacency &/or Attributes -AU	Australia	9/20/2021	9/22/2020	2021234854	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.412CA	Pending	Floor Plan Search Via Adjacency &/or Attributes -CA	Canada	9/17/2021	9/22/2020	3,131,271	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhev		Awaiting 1st Office Action
990074.412CN	Pending	Floor Plan Search Via Adjacency &/or Attributes -CN	China	9/22/2021	9/22/2020	202111108544.6	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhev		Awaiting 1st Office Action

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
990074.412EP	Pending	Floor Plan Search Via Adjacency &/or Attributes -EP	EPO	9/17/2021	9/22/2020	21197503.2	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhiev		Awaiting next Action, after response to 1st Office Action filed 09/2022
990074.412IN	Pending	Floor Plan Search Via Adjacency &/or Attributes -IN	India	9/17/2021	9/22/2020	202114042176	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhiev		Awaiting next Action, after response to 1st Office Action filed 09/2022 02/27/2023 is deadline to resolve all rejections

313 Patent Family - 3DH Pano Creation On Resource-Limited Device (re: do pano generation on mobile device with processing techniques to manage limited resources)

990074.413	Issued	Pano Creation On Resource-Limited Device	USA	4/28/2021	6/5/2020	17/243,146	Sean Cier, Sing Bing Kang, Mitchell Dawson	Patent No. 11,405,549	Issued 08/02/2022 - to expire 04/28/2041 (if maintenance fees paid) 3.5 yr maint. fee due 02/02/2026
990074.413PCT	Pending / Converted	Pano Creation On Resource-Limited Device - PCT	PCT	5/17/2021	6/5/2020	PCTUS2021-032656	Sean Cier, Sing Bing Kang, Mitchell Dawson		30-mon. FF deadline: 12/05/2022
990074.413AU	Pending	Pano Creation On Resource-Limited Device - AU	Australia	5/17/2021	6/5/2020	2021282989	Sean Cier, Sing Bing Kang, Mitchell Dawson		Awaiting next Action, after response to 1st Office Action filed 09/2022
990074.413CA	Pending	Pano Creation On Resource-Limited Device - CA	Canada	5/17/2021	6/5/2020	3,143,089	Sean Cier, Sing Bing Kang, Mitchell Dawson		Awaiting next Action, after 2022/07 response to 2nd Office Action
990074.413CN	Pending	Pano Creation On Resource-Limited Device - CN	China	5/17/2021	6/5/2020	202180004364.5	Sean Cier, Sing Bing Kang, Mitchell Dawson		Notice Of Allowance received, with response date of 11/21/2022
990074.413EP	Pending	Pano Creation On Resource-Limited Device - EP	EPO	5/17/2021	6/5/2020	21816305.3	Sean Cier, Sing Bing Kang, Mitchell Dawson		Awaiting next Action, after 10/2022 response to 1st Office Action
990074.413IN	Pending	Pano Creation On Resource-Limited Device - IN	India	5/17/2021	6/5/2020	202117057713	Sean Cier, Sing Bing Kang, Mitchell Dawson		Awaiting 1st Office Action

414 Patent Family - 3DH Phone-plus-Camera Localization On-Device (re: determine room shape on mobile device using its IMU data and images from separate camera)

990074.414	Issued	Phone-plus-Camera Localization On-Device	USA	1/15/2021	1/8/2021	17/150,958	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon	Patent No. 11,252,329	Issued 02/15/2022 - to expire 01/15/2041 (if maintenance fees paid) 3.5 yr maint. fee due 08/15/2025
990074.414C1	Pending	Phone-plus-Camera Localization On-Device #2	USA	1/11/2022	1/8/2021	17/573,465	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		Awaiting 1st Office Action
990074.414AU	Pending	Phone-plus-Camera Localization On-Device - AU	Australia	12/24/2021	1/8/2021	2021290378	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		Awaiting 1st Office Action
990074.414CA	Pending	Phone-plus-Camera Localization On-Device - CA	Canada	12/14/2021	1/8/2021	3,142,154	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		Awaiting 1st Office Action
990074.414CN	Pending	Phone-plus-Camera Localization On-Device - CN	China	1/4/2022	1/8/2021	202210001556.7	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		Awaiting 1st Office Action
990074.414EP	Pending	Phone-plus-Camera Localization On-Device - EP	EPO	12/15/2021	1/8/2021	21214909.0	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		1st Office Action received (only clarity objections for 1 independent claim), with 01/3/2023 response date
990074.414IN	Pending	Phone-plus-Camera Localization On-Device - IN	India	12/6/2021	1/8/2021	202114056594	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon		Awaiting next Action, after response to 1st Office Action filed 10/2022 04/27/2023 is deadline to resolve all rejections

315 Patent Family - 3DH Image Localization On Room Shape (re: determine image's acquisition location by matching to existing room shapes or other in-room image)

990074.415	Issued	Automated Determination Of Image Acquisition Locations In Building Interiors Using Determined Room Shapes	USA	3/15/2021	11/23/2020	17/201,996	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev	Patent No. 11,481,925	Issued 10/25/2022 - to expire 03/15/2041 (if maintenance fees paid) 3.5 yr maint. fee due 04/25/2026
990074.415CIP (CIP of 415)	Pending	Image Localization On Room Shape #2 -CIP	USA	10/17/2022	11/23/2020 (original subject matter) & 10/07/2022 (new CIP)	17/962,299	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.415AU	Pending	Image Localization On Room Shape -AU	Australia	11/22/2021	11/23/2020	2021272244	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.415CA	Pending	Image Localization On Room Shape -CA	Canada	11/18/2021	11/23/2020	3,139,429	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting 1st Office Action

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
990074.415CN	Pending	Image Localization On Room Shape -CN	China	11/23/2021	11/23/2020	202111395691.6	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.415EP	Pending	Image Localization On Room Shape -EP	EPO	11/22/2021	11/23/2020	21209703.4	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting next Action, after response to 1st Office Action filed 10/2022
990074.415IN	Pending	Image Localization On Room Shape -IN	India	11/19/2021	11/23/2020	202114053369	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev		Awaiting next Action, after response to 1st Office Action filed 09/2022 02/28/2023 is deadline to resolve all rejections

418 Patent Family - 3DN Object-to-Room Quality Assessment (re-filed with 418 - re: use images of in-room objects to assess quality of objects and rooms)									
990074.416	Pending	Object-to-Room Quality Assessment	USA	2/25/2021	2/25/2021	17/185,793	Viktoriya Stoeva, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting 1st Office Action
990074.416AU	Pending	Object-to-Room Quality Assessment -AU	Australia	1/18/2022	2/25/2021	2022200297	Viktoriya Stoeva, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting 1st Office Action
990074.416CA	Pending	Object-to-Room Quality Assessment -CA	Canada	12/17/2021	2/25/2021	3,143,837	Viktoriya Stoeva, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting 1st Office Action
990074.416CN	Pending	Object-to-Room Quality Assessment -CN	China	1/29/2022	2/25/2021	202210110801.8	Viktoriya Stoevs, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting 1st Office Action
990074.416EP	Pending	Object-to-Room Quality Assessment -EP	EPO	1/18/2022	2/25/2021	22152019.0	Viktoriya Stoeva, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting 1st Office Action
990074.416IN	Pending	Object-to-Room Quality Assessment -IN	India	12/16/2021	2/25/2021	202114058748	Viktoriya Stoeva, Sing Bing Kang, Naji Khosravan, Lambert Wixson		Awaiting next Action, after response to 1st Office Action filed 10/2022 06/06/2023 is deadline to resolve all rejections

417 Patent Family - 3DN Multi-Pano Room Shape Estimation (re: do room shape estimation using multiple panos captured in room, such as for large rooms)									
990074.417	Pending	Multi-Pano Room Shape Estimation	USA	7/27/2021	7/27/2021	17/386,281	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Patent No. 11,501,452 To Be Issued 11/15/2022 - to expire 07/27/2041 (if maintenance fees paid)
990074.417AU	Pending	Multi-Pano Room Shape Estimation -AU	Australia	1/25/2022	7/27/2021	2022200470	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Awaiting 1st Office Action
990074.417CA	Pending	Multi-Pano Room Shape Estimation -CA	Canada	12/24/2021	7/27/2021	3,144,033	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Awaiting 1st Office Action
990074.417CN	Pending	Multi-Pano Room Shape Estimation -CN	China	1/28/2022	7/27/2021	202210115061.7	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Awaiting 1st Office Action
990074.417EP	Pending	Multi-Pano Room Shape Estimation -EP	EPO	1/17/2022	7/27/2021	22151881.4	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Awaiting 1st Office Action
990074.417IN	Pending	Multi-Pano Room Shape Estimation -IN	India	12/17/2021	7/27/2021	202114059001	Yuguang Li, Ivaylo Boyadzhiev, Will Hutchcroft, Chris Buehler		Awaiting 1st Office Action

418 Patent Family - 3DN Guided Capture for Quality Assessment (re: determines/provide instructions to operator/user about capturing object images)									
990074.418	Pending	Guided Capture	USA	2/25/2021	2/25/2021	17/185,836	Lambert Wixson, Chris Buehler		1st Office Action received, with initial response date of 01/12/2023 (to resolve all rejections)
990074.418AU	Pending	Guided Capture -AU	Australia	1/18/2022	2/25/2021	2022200299	Lambert Wixson, Chris Buehler		Awaiting 1st Office Action
990074.418CA	Pending	Guided Capture -CA	Canada	12/17/2021	2/25/2021	3,143,792	Lambert Wixson, Chris Buehler		Awaiting 1st Office Action
990074.418CN	Pending	Guided Capture -CN	China	1/29/2022	2/25/2021	202210110790.3	Lambert Wixson, Chris Buehler		Awaiting 1st Office Action
990074.418EP	Pending	Guided Capture -EP	EPO	1/18/2022	2/25/2021	22152024.0	Lambert Wixson, Chris Buehler		Awaiting 1st Office Action
990074.418IN	Pending	Guided Capture -IN	India	12/16/2021	2/25/2021	202114058790	Lambert Wixson, Chris Buehler		1st Office Action received, with final response date of 06/08/2023 (to resolve all rejections)

419 Patent Family - 3DN Topology-Based Photo Visualization									
990074.419	Pending	Topology-Based Photo Visualization	USA	8/27/2021	8/27/2021	17/459,820	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.419AU	Pending	Topology-Based Photo Visualization -AU	Australia	1/25/2022	8/27/2021	2022200471	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.419CA	Pending	Topology-Based Photo Visualization -CA	Canada	1/13/2022	8/27/2021	3,145,599	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.419CN	Pending	Topology-Based Photo Visualization -CN	China	1/29/2022	8/27/2021	202210110693.4	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
990074.419EP	Pending	Topology-Based Photo Visualization -EP	EPO	1/18/2022	8/27/2021	22152031.5	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.419IN	Pending	Topology-Based Photo Visualization -IN	India	12/17/2021	8/27/2021	202114059042	Manjunath (Manju) Narayana, Ivaylo Boyadzhiev		Awaiting 1st Office Action

320 Patent Family - 3D Photo-Pano Attribute Exchange

990074.420	Pending	Photo-Pano Attribute Exchange	USA	9/22/2021	9/22/2021	17482,325	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.420AU	Pending	Photo-Pano Attribute Exchange -AU	Australia	1/25/2022	9/22/2021	2022200474	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.420CA	Pending	Photo-Pano Attribute Exchange -CA	Canada	1/13/2022	9/22/2021	3,145,605	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.420CN	Pending	Photo-Pano Attribute Exchange -CN	China	1/29/2022	9/22/2021	202210110682.6	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.420EP	Pending	Photo-Pano Attribute Exchange -EP	EPO	1/18/2022	9/22/2021	22151948.1	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.420IN	Pending	Photo-Pano Attribute Exchange -IN	India	12/21/2021	9/22/2021	202114059781	Naji Khosravan, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action

421 Patent Family - 3D Neural Network (NN)-Based Image Localization On Floor Plan

990074.421	Pending	NN-Based Image Localization On Floor Plan	USA	8/27/2022	10/22/2021	17/897,154	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.421AU	Pending	NN-Based Image Localization On Floor Plan -AU	Australia	10/16/2022	10/22/2021	TBD	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.421CA	Pending	NN-Based Image Localization On Floor Plan -CA	Canada	10/17/2022	10/22/2021	TBD	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.421CN	To Be Pending	NN-Based Image Localization On Floor Plan -CN	China	TBD	10/22/2021	TBD	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.421EP	Pending	NN-Based Image Localization On Floor Plan -EP	EPO	10/7/2022	10/22/2021	22200281.8	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.421IN	Pending	NN-Based Image Localization On Floor Plan -IN	India	10/18/2022	10/22/2021	202214059413	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev		Awaiting 1st Office Action

422 Patent Family - 3D Neural Network (NN)-Based Floor Plan Generation From Sparse Panos

990074.422	Pending	NN-Based Floor Plan Generation From Sparse Panos	USA	1/26/2022	10/28/2021	17/585,433	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action 1-year deadline for foreign filing of 10/28/2022
990074.422AU	Pending	NN-Based Floor Plan Generation From Sparse Panos -AU	Australia	4/28/2022	10/28/2021	2022202811	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action
990074.422CA	Pending	NN-Based Floor Plan Generation From Sparse Panos -CA	Canada	4/5/2022	10/28/2021	3,154,186	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action
990074.422CN	Pending	NN-Based Floor Plan Generation From Sparse Panos -CN	China	4/29/2022	10/28/2021	202210473013.5	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action
990074.422EP	Pending	NN-Based Floor Plan Generation From Sparse Panos -EP	EPO	4/7/2022	10/28/2021	22167347.8	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action
990074.422IN	Pending	NN-Based Floor Plan Generation From Sparse Panos -IN	India	4/22/2022	10/28/2021	202214023933	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson		Awaiting 1st Office Action

323 Patent Family - 3D Neural Network (NN)-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout

990074.423	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout	USA	12/28/2021	12/28/2021	17/564,054	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action 1-year deadline for foreign filing of 12/28/2022
990074.423AU	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout -AU	Australia	4/28/2022	12/28/2021	2022202815	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.423CA	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout -CA	Canada	4/5/2022	12/28/2021	3,154,188	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.423CN	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout -CN	China	4/29/2022	12/28/2021	202210473888.5	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.423EP	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout -EP	EPO	4/7/2022	12/28/2021	22167359.3	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.423IN	Pending	NN-Based Joint Inter-Pano Co-Visibility / Pose & Structural Layout -IN	India	4/22/2022	12/28/2021	202214023931	Will Hutchcroft, Yuguang Li, Ethan Wan and Ivaylo Boyadzhiev		Awaiting 1st Office Action

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
324 Patent Family - 3D Guided Tour Capture & On-Device Rough Floor Plan Generation									
990074.424	Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation	USA	7/25/2022	7/25/2022	17/872,914	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action 1-year deadline for foreign filing of 07/25/2023
990074.424AU	Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation -AU	Australia	10/24/2022	7/25/2022	TBD	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action
990074.424CA	Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation -CA	Canada	10/19/2022	7/25/2022	TBD	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action
990074.424CN	To Be Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation -CN	China	TBD	7/25/2022	TBD	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action
990074.424EP	Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation -EP	EPO	10/18/2022	7/25/2022	22202277.4	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action
990074.424IN	To Be Pending	Guided Tour Capture & On-Device Rough Floor Plan Generation -IN	India	TBD	7/25/2022	TBD	Ethan Wan, Will Hutchcroft, Manjunath Narayana, Ivaylo Boyadzhiev, Yuguang Li		Awaiting 1st Office Action
325 Patent Family - 3D Adaptive Time-To-Result & Quality-Based Feedback									
990074.425	Pending	Adaptive Time-To-Result & Quality-Based Feedback	USA	6/16/2022	6/16/2022	17/842,419	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action 1-year deadline for foreign filing of 06/16/2023
990074.425AU	To Be Pending	Adaptive Time-To-Result & Quality-Based Feedback -AU	Australia	TBD	6/16/2022	TBD	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.425CA	To Be Pending	Adaptive Time-To-Result & Quality-Based Feedback -CA	Canada	10/27/2022	6/16/2022	TBD	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.425CN	To Be Pending	Adaptive Time-To-Result & Quality-Based Feedback -CN	China	TBD	6/16/2022	TBD	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.425EP	To Be Pending	Adaptive Time-To-Result & Quality-Based Feedback -EP	EPO	TBD	6/16/2022	TBD	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action
990074.425IN	To Be Pending	Adaptive Time-To-Result & Quality-Based Feedback -IN	India	TBD	6/16/2022	TBD	Manjunath Narayana, Christopher Buehler, Ivaylo Boyadzhiev		Awaiting 1st Office Action
326 Patent Family - 3D Explainable Home Similarities (Hierarchical Vector Embeddings)									
990074.426	Pending	Explainable Home Similarities (Hierarchical Vector Embeddings)	USA	7/13/2022	7/13/2022	17/864,234	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action 1-year deadline for foreign filing of 07/13/2023
990074.426AU	To Be Pending	Explainable Home Similarities (Hierarchical Vector Embeddings) -AU	Australia	TBD	7/13/2022	TBD	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action
990074.426CA	To Be Pending	Explainable Home Similarities (Hierarchical Vector Embeddings) -CA	Canada	10/27/2022	7/13/2022	TBD	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action
990074.426CN	To Be Pending	Explainable Home Similarities (Hierarchical Vector Embeddings) -CN	China	TBD	7/13/2022	TBD	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action
990074.426EP	To Be Pending	Explainable Home Similarities (Hierarchical Vector Embeddings) -EP	EPO	TBD	7/13/2022	TBD	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action
990074.426IN	To Be Pending	Explainable Home Similarities (Hierarchical Vector Embeddings) -IN	India	TBD	7/13/2022	TBD	Naji Khosravan, Lichen Wang, Sing Bing Kang		Awaiting 1st Office Action
327 Patent Family - 3D Extending Listings Using RMX Data & Language Models									
990074.427	Pending	Extending Listings Using RMX Data & Language Models	USA	8/27/2022	8/27/2022	17/897,147	Eric Penner, Naji Khosravan, Sing Bing Kang, Lichen Wang, Zach Bessinger		Awaiting 1st Office Action 1-year deadline for foreign filing of 08/27/2023
328 Patent Family - 3D Auto-Generate Home Tour Videos With Narration									
990074.428	Pending	Auto-Generate Home Tour Videos With Narration	USA	8/22/2022	8/22/2022	17/892,427	Eric Penner, Ivaylo Boyadzhiev, Sing Bing Kang		Awaiting 1st Office Action 1-year deadline for foreign filing of 08/22/2023
329 Patent Family - 3D AR/VR Feature Highlighting									
990074.429	Pending	AR/VR Feature Highlighting	USA	9/22/2022	9/22/2022	17/950,865	Manjunath Narayana, Eric Penner, Ivaylo Boyadzhiev, Sing Bing Kang		Awaiting 1st Office Action 1-year deadline for foreign filing of 09/22/2023

ShowingTime (ST) ISSUED PATENTS AND PENDING PATENT APPLICATIONS

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLX NO.	INVENTORS	GRANT NO.	STATUS
302 Patent Family - ShowingTime Real Estate Key Dispenser Kiosk									
302	Issued	ST Real Estate Key Dispenser Kiosk	USA	2/28/2008	2/28/2008	12/039,544	Scott Woodard, Herbert Greenman, Depeng Bi	Patent No. 8,035,480	Issued 10/11/2011 - to expire 07/16/2030 (if maintenance fees paid) 11.5 yr maint. fee due 04/11/2023
302CIP2 (CIP of 302)	Issued	ST Real Estate Key Dispenser Kiosk #2 -CIP	USA	9/8/2011	2/28/2008	13/227,881	Scott Woodard, Depeng Bi	Patent No. 8,145,352	Issued 03/27/2012 - to expire 02/28/2028 (if maintenance fees paid) 11.5 yr maint. fee due 09/27/2023
302CIP1 (CIP of 302)	Abandoned	ST Real Estate Key Dispenser Kiosk #3 -CIP	USA	4/9/2010	2/28/2008	12/757,142	Scott Woodard, Herbert Greenman, Depeng Bi		Abandoned after issuance (non-payment of 7.5 yr maint. fee due 06/17/2022)
302CIP1C1	Abandoned	ST Real Estate Key Dispenser Kiosk #4	USA	1/31/2013	2/28/2008	13/755,510	Scott Woodard, Herbert Greenman, Depeng Bi		Abandoned before issuance
302CIP1CIP1 (CIP of only 302CIP1)	Issued	ST Real Estate Key Dispenser Kiosk #5 -CIP	USA	4/29/2014	4/9/2010	14/264,949	Scott Woodard, Michael Caputo, William Kellogg	Patent No. 9,460,480	Issued 10/04/2016 - to expire 03/13/2031 (if maintenance fees paid)
302CIP1CIP1CIP1 (CIP of only 302CIP1CIP1)	Issued	ST Real Estate Key Dispenser Kiosk #6 -CIP	USA	8/29/2016	4/29/2014	15/250,486	Scott Woodard, Michael Caputo, William Kellogg	Patent No. 9,761,071	Issued 09/12/2017 - to expire 04/29/2034 (if maintenance fees paid)
302CIP1CIP1CIP1C1 (con of only 302CIP1CIP1CIP1)	Issued	ST Real Estate Key Dispenser Kiosk #7	USA	8/4/2017	8/29/2016	15/669,712	Scott Woodard, Michael Caputo, William Kellogg	Patent No. 10,026,248	Issued 07/17/2018 - to expire 08/29/2036 (if maintenance fees paid)

307 Patent Family - ShowingTime Real Estate Key Dispenser Kiosk									
307	Issued	ST Real Estate Text Messaging Confirmation	USA	6/9/2012	6/9/2012	13/492,816	William Kellogg, Andrew Ofisher, Timothy Perry, Robert Overman, Scott Woodard	Patent No. 8,649,486	Issued 02/11/2014 - to expire 09/25/2032 (if maintenance fees paid) 11.5 yr maint. fee due 08/11/2025
307C1 (con of 307)	Issued	ST Real Estate Text Messaging Confirmation #2	USA	12/12/2013	6/9/2012	14/105,010	William Kellogg, Andrew Ofisher, Timothy Perry, Robert Overman, Scott Woodard	Patent No. 8,971,506	Issued 03/03/2015 - to expire 06/09/2032 (if maintenance fees paid) 7.5 yr maint. fee due 09/03/2022
307C2 (con of 307C1)	Abandoned	ST Real Estate Text Messaging Confirmation #3	USA	1/13/2014	6/9/2012	14/153,166			Abandoned before issuance

319 Patent Family - ShowingTime Real Estate Literature Distribution									
319	Abandoned	ST Real Estate Literature Distribution	USA	4/20/2006	10/17/2005	11/408,212	Rick Bengson		Abandoned before issuance
319CIP (CIP of 319)	Issued	ST Real Estate Literature Distribution #2 -CIP	USA	7/5/2006	10/17/2005	11/428,609	Rick Bengson	Patent No. 7,853,479	Issued 12/14/2010 - to expire 07/29/2029 (if maintenance fees paid) 11.5 yr maint. fee paid
319D1 (div of 319)	Abandoned	ST Real Estate Literature Distribution #3 -D1	USA	7/15/2008	10/17/2005	12/173,409	Rick Bengson		Abandoned after issuance (non-payment of 7.5 yr maint. fee due 01/04/2021)
319D2 (div of 319)	Abandoned	ST Real Estate Literature Distribution #4 -D2	USA	7/15/2008	10/17/2005	12/173,434	Rick Bengson		Abandoned before issuance

326 Patent Family - ShowingTime Geo-Fencing For Showing Appointments									
326	Issued	ST Geo-Fencing For Showing Appointments	USA	6/27/2018	6/27/2018	16/020,733	Scott Woodard, Michael Caputo, Paul Bergman, David Bernhard	Patent No. 10,885,596	Issued 01/05/2021 - to expire 01/31/2039 (if maintenance fees paid) 3.5 yr maint. fee due 07/05/2024
326C1 (con of 326)	Issued	ST Geo-Fencing For Showing Appointments #2	USA	10/23/2020	6/27/2018	17/078,941	Scott Woodard, Michael Caputo, Paul Bergman, David Bernhard	Patent No. 11,379,938	Issued 07/05/2022 - to expire 09/09/2038 (if maintenance fees paid) 3.5 yr maint. fee due 01/05/2026
326C2 (con of 326C1)	Pending	ST Geo-Fencing For Showing Appointments #4	USA	6/29/2022	6/27/2018	17/853,222	Scott Woodard, Michael Caputo, Paul Bergman, David Bernhard		Awaiting 1st Office Action
326C2CIP (CIP of 326C2)	TBD	ST Geo-Fencing For Showing Appointments #5 -CIP	USA	TBD	6/27/2018 / TBD	TBD	Scott Woodard, Michael Caputo, Paul Bergman, David Bernhard		draft CIP patent application sent for review 10/26/2022
326CIP (CIP of only 326C1)	Pending	ST Geo-Fencing For Showing Appointments #3 (Late Showings) -CIP	USA	12/8/2020	10/23/2020	17/114,608	Scott Woodard, Michael Caputo, Paul Bergman, David Bernhard		Notice Of Allowance received , with response date of 01/06/2023

329 Patent Family - ShowingTime Real Estate DocuBell Cam For Showing Appointments									
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FILE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	STATUS
329	Issued	ST Real Estate Doorbell Cam For Showing Appointments	USA	12/29/2018	12/29/2018	16/236,456	Michael Caputo, Paul Bergman, David Bernhard	Patent No. 10,713,740	Issued 07/14/2020 - to expire 01/30/2039 (if maintenance fees paid) 3.5 yr maint. fee due 01/14/2024

336 Patent Family - ShowingTime Real Estate Virtual Showings

336	Pending	ST Real Estate Virtual Showings	USA	4/20/2020	4/20/2020	16/252,948	Scott Woodard, Michael Caputo, Gregory Doerr		Notice Of Allowance received, with response date of 01/03/2023
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338 Patent Family - ShowingTime Health Parameters For Showing Appointments

338	Issued	ST Health Parameters For Showing Appointments	USA	8/4/2020	8/4/2020	16/984,982	Scott Woodard, Michael Caputo	Patent No. 11,468,985	Issued 10/11/2022 - to expire 03/12/2041 (if maintenance fees paid) 3.5 yr maint. fee due 04/11/2026
338CIP	Pending	ST Health Parameters For Showing Appointments #2 -CIP	USA	8/17/2022	8/4/2020 / 8/14/2022	17/890,151	Michael Caputo, Scott Woodard		Awaiting 1st Office Action

341 Patent Family - ShowingTime Premier Agent App (PAA) With ST API Tour Scheduling (to Application Scheduling)

990074.341P1	Pending	PAA With ST API Tour Scheduling -Prov	USA	9/26/2022	9/26/2022	63/410,210			1-year deadline for non-provisional & foreign filing of 09/26/2023
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342 Patent Family - ShowingTime Premier Agent App (PAA) Multi-Party Tour Auto-Booking (Multi-User/System Scheduling)

990074.342P1	Pending	PAA Multi-Party Tour Auto-Booking -Prov	USA	9/26/2022	9/26/2022	63/410,214			1-year deadline for non-provisional & foreign filing of 09/26/2023
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343 Patent Family - ShowingTime Premier Agent App (PAA) Home Tour Booking Multi-Agent Daisy Chain (Daisy Chain VoIP Commit)

990074.343P1	Pending	PAA Home Tour Booking Multi-Agent Daisy Chain -Prov	USA	9/26/2022	9/26/2022	63/410,219			1-year deadline for non-provisional & foreign filing of 09/26/2023
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ShowingTime (ST) PATENT APPLICATIONS BEING PREPARED

FILE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	GRANT NO.	COMMENTS
990074.341	not yet filed	PAA With ST API Tour Scheduling	USA	TBD	9/26/2022	TBD	TBD		
990074.342	not yet filed	PAA Multi-Party Tour Auto-Booking	USA	TBD	9/26/2022	TBD	TBD		
990074.343	not yet filed	PAA Home Tour Booking Multi-Agent Daisy Chain	USA	TBD	9/26/2022	TBD	TBD		

CONVERTED, EXPIRED, AND ABANDONED PATENT MATTERS

FRE NUMBER	STATUS	MATTER NAME	COUNTRY	FILING DATE	PRIORITY DATE	APPLN NO.	INVENTORS	COMMENTS
CONVERTED PCT								
990074.401PCT	Converted PCT	House Interior Data Capture and Panorama Connection -PCT	PCT	7/13/2018	7/13/2018	PCTUS2018-042130	Qi Shan, Alex Colburn, Li Guan, Ivaylo Boyadzhiev	
990074.404PCT	Converted PCT	Inter-Pano Transitions UI -PCT	PCT	3/14/2019	3/14/2019	PCTUS2019-022158	Li Guan, Yuguang Li	
990074.405PCT	Converted PCT	Pano Creation GUI Using IMU Feedback -PCT	PCT	10/9/2019	10/11/2018	PCTUS2019-055282	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao	
990074.413PCT	Converted PCT	Pano Creation On Resource-Limited Device -PCT	PCT	5/17/2021	6/5/2020	PCTUS2021-032656	Sean Cier, Sing Bing Kang, Mitchell Dawson	
CONVERTED PROVISIONALS								
990074.403P1	Converted Prov	Automated Panos-To-Floor Map -Prov	USA	10/11/2018	10/11/2018	62744472	Qi Shan, Alex Colburn, Li Guan, Ramin Mahvan	
990074.405P1	Converted Prov	Pano Creation GUI Using IMU Feedback -Prov	USA	10/11/2018	10/11/2018	62744480	Li Guan, Mitchell David Dawson, Andrew H. Otwell, Dun-Yu Hsiao	
990074.406P1	Converted Prov	User-Assisted Floor Map Generation -Prov	USA	8/28/2019	8/28/2019	62893108	Yuguang Li, Grant Gingell, Ivaylo Boyadzhiev	
990074.408P1	Converted Prov	Floor Map Lighting Simulation -Prov	USA	10/7/2019	10/7/2019	62911959	Joshuah Vincent, Pierre Moulon, Ivaylo Boyadzhiev	
990074.409P1	Converted Prov	Video-To-Floor Map -Prov	USA	10/28/2019	10/28/2019	62927032	Pierre Moulon, Ivaylo Boyadzhiev	
990074.414P1	Converted Prov	On-Device Phone-plus-Camera Image Localization -Prov	USA	1/8/2021	1/8/2021	63135312	Sean Cier, Sing Bing Kang, Mitchell Dawson, Pierre Moulon	
990074.415P1	Converted Prov	Image Localization On Room Shape -Prov	USA	11/23/2020	11/23/2020	63117372	Yuguang Li, Will Hutchcroft, Naji Khosravan, Ivaylo Boyadzhiev	
990074.413P1	Converted Prov	Pano Creation On Resource-Limited Device -Prov	USA	6/5/2020	6/5/2020	63035619	Sean Cier, Sing Bing Kang, Mitchell Dawson	
990074.412P1	Converted Prov	Floor Plan Search Via Adjacency &/or Attributes -Prov	USA	9/22/2020	9/22/2020	63081744	Yu Yin, Yujie Li, Will Hutchcroft, Sing Bing Kang, Pierre Moulon, Ivaylo Boyadzhiev	
990074.421P1	Converted Prov	NN-Based Image Localization On Floor Plan -Prov	USA	10/22/2021	10/22/2021	63/270,794	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev	
990074.421P2	Converted Prov	NN-Based Image Localization On Floor Plan #2 -Prov	USA	11/15/2021	10/22/2021	63/279,247	Zhixiang Min, Naji Khosravan, Manjunath Narayana, Zachary Bessinger, Sing Bing Kang, Ivaylo Boyadzhiev	filed to add some implementation details before submission of conference paper
990074.422P1	Converted Prov	NN-Based Floor Plan Generation From Sparse Panos -Prov	USA	10/28/2021	10/28/2021	63/272,854	John Lambert, Yuguang Li, Ivaylo Boyadzhiev and Lambert Wixson	
EXPIRED PATENTS								
990074.301	Patent With Expired 20-Year Term	ShowingTime Real Estate Coordination -RE	USA	12/4/2007	11/20/2000	11/999,478	Scott Woodard, Herbert Greenman, Victoria Richard-York	Patent No. RE43068 issued 01/03/2012 (reissue of 6,972,432 issued 12/06/2005) - expired 11/20/2020 Assigned to ShowingTime.com, Inc.
ABANDONED PATENTS								
319D1	Patent Abandoned Before 20-Year Term Expired	ST Real Estate Literature Distribution #3 -D1	USA	7/15/2008	10/17/2005	12/173,409	Rick Bengson	Patent No. 8,346,606 issued 01/01/2013, but abandoned at non-payment of 7.5 yr maintenance fee due 01/04/2021 Assigned to Showing Suite, Inc.
302CIP1 (CIP of 302)	Patent Abandoned Before 20-Year Term Expired	ST Real Estate Key Dispenser Kiosk #3 -CIP	USA	4/9/2010	2/28/2008	12/757,142	Scott Woodard, Herbert Greenman, Deperg Bi	Patent No. 8,754,744 issued 06/17/2014, but abandoned at non-payment of 7.5 yr maint. fee due 06/17/2022

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