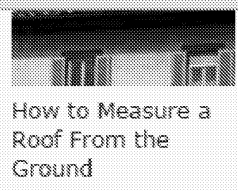


Pictometry EX2002 (Part 12 of 13)
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How to Measure a Roof From the Ground

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3 Estimate the pitch of the roof. Roofs have one of three pitches: low, medium or high. A low pitch rises 3 inches every 12 inches of base horizontal length. A medium pitch rises 6 to 9 inches every 12 inches of base horizontal length. A high pitch roof rises more than 9 inches for every 12 inches of base horizontal length. Estimate the roof pitch by sight or calculate it with a level in the next step.

4 Calculate roof pitch by climbing a ladder up to the point where the roof begins. Hold the level horizontally so that the end of the level touches the roof about 12 inches above the bottom of the roof. Find the 12-inch point on the level and measure straight down to the roof using a tape measure. Note the measurement; less than 6 inches is a low pitch, 6 to 9 inches is a medium pitch and more than 9 inches is a high pitch.

5 Multiply the number of roofing squares for a low-pitch roof by 1.06 to 1.08 to get the square roof area. Multiply the number of roofing squares for a medium-pitch roof by 1.12 to 1.25 -- or by 1.3 to 1.42 for a high-pitch roof -- to get the square roof area.

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Things You Will Need

- Steel tape measure
- Level
- Ladder

References (1) >

About the Author



Kathryn Hatter is a veteran home-school educator and regular contributor to "Natural News." She is an accomplished gardener, seamstress, quilter, crocheter, painter, cook, decorator and digital graphics creator and she enjoys technical and computer gadgets. Hatter's Internet publications specialize in natural health and she plans to continue her formal education in the health field, focusing on nursing.

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Apps

1 of 13

Installation cost, which is 20 times 300, which equals to \$6,000.0

Finally, we add results, $\$3,000 + \$6,000 = \$9,000$ total for the tear off and installation of a new asphalt shingle roof.

Having read and practiced the steps outlined in this Do it yourself roof estimating guide, and learning the practical steps of how to measure your roof, you should now have a better understanding about your own roof, be able to figure out its approximate actual size in roofing squares, and define the level of difficulty involved in the roof replacement. I firmly believe that knowing these easy skills is going to provide more benefits for you, than some roof calculator software spitting the mystical numbers at you.

I wish you best of luck in getting a great quality roof at a fair price!

Legal Disclaimer:

The roofing multiplier figures provided in this post are not meant to be interpreted as the absolute accurate measures, but rather they are just some mere guess-estimate values, that were arrived at through author's experience with estimating roofing jobs, and through using the, sometimes, necessary number allowances. There are many highly complex roofs where exact roof calculations may be difficult, or even impossible to perform. As such, all the figures above are to be used for your entertainment purposes only, and to be considered as not particularly reliable. They cannot be considered legally binding, valid, or used in the court of law.

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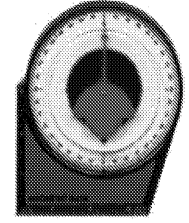
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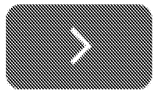
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Roof Pitches 4/12 thru 12/12

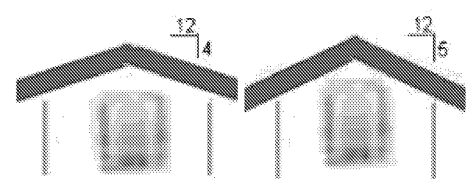
The examples below provide visual examples of roof pitch.

To determine your roof pitch go here.

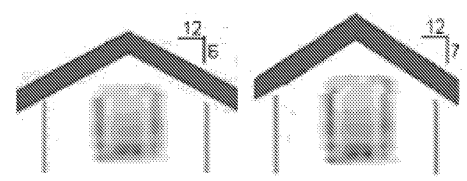
Other terminology for roof pitch are; Roof Slope, Roof Angle and Pitch Degrees.

To see roof pitch to degrees equivalents go here.

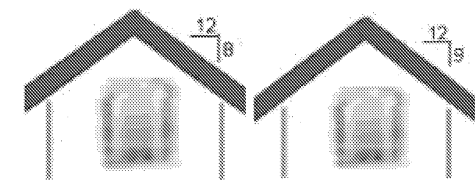
4/12 Pitch 18½° Details 5/12 Pitch 22½° Details



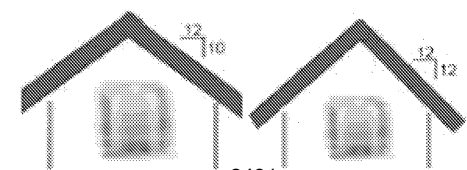
6/12 Pitch 26½° Details 7/12 Pitch 30¼° Details



8/12 Pitch 33¾° Details 9/12 Pitch 37° Details



10/12 Pitch 40° Details 12/12 Pitch 45° Details



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Roof Area Calculator

conversions	
inches	feet
1	.08
2	.17
3	.25
4	.33
5	.42
6	.50
7	.58
8	.67
9	.75
10	.83
11	.92

This calculator will help you determine the amount of square feet you have for replacing roof shingles. Roof shingles are figured by number of squares. 10'x10' = 100sf (1 square)

Roof Area Calculators: GABLE & HIP SHED

For each of the roof types pictured below, L = horizontal Length, W = horizontal Width, and H = vertical Height, all entered in feet. Slope in inches per foot may be substituted for H. (If you do not know how to measure slope, see [these instructions](#).)

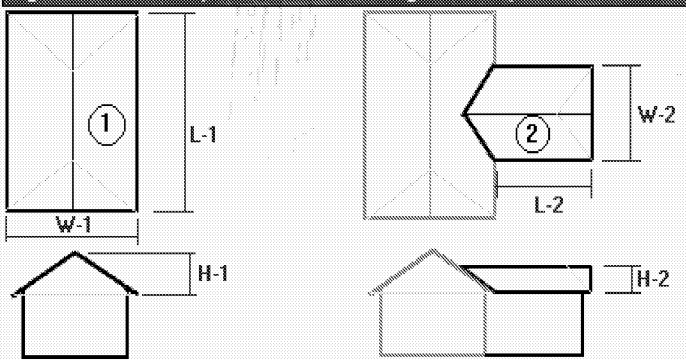
Hip roofs can present a problem for height measurement, and the slope method may be substituted in place of height measurement. Since modern architecture has allowed the incidence of mixed slopes in a single structure, the calculator allows for entry of differing slopes for intersecting roofs.

For many roofs, dimensions can be taken from the ground or from a ladder. Be sure that your measurements include any overhang at the eaves. Height can often be measured at the end wall at the center of a gable.

Complex roofs may have numerous repeats of these shapes - perform a separate calculation for each section, then add the results together (on paper) to obtain total roof area. A "salt box" roof with unequal sides may be calculated as two separate shed roof shapes. An "A-Frame" roof is simply a gable with high slope.

GABLE OR HIP ROOF:

A gable roof and a hip roof of the same length and slope will have identical areas.

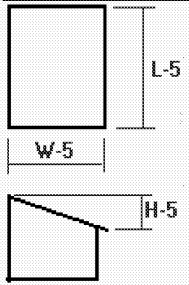


Enter roof dimensions below for your roof in feet, (or slope as inches rise per foot.)

- If you enter only L-1, W-1, & H-1, the result will be the area of a single straight gable roof.
- If you enter all six values, the result will be the actual exposed area of both roofs. You cannot enter values for Area 2 alone.
- The values calculated for roof 1 and roof 2 are independent. The total will not equal their added values, as the calculator subtracts the hidden area from roof 1 at the intersection, and displays only the actual exposed roof area for the total.

CALCULATE	L-1	W-1	H-1	slope1	Area 1	Total Exposed, Areas 1 & 2 Combined:	Roof 1 Hidden
	0	0	0	-OR- 0 /12 =	0 ft ²		0 ft ²
	L-2	W-2	H-2	slope2	Area 2		Roof 2 Ridge Length
	0	0	0	-OR- 0 /12 =	0 ft ²	0 ft ²	0 ft

Shed Roof:



Gather the dimensions for your shed roof, and enter below in feet, (or slope as inches rise per foot.)

CALCULATE	L-5	W-5	H-5	slope5	Area 5
	0	0	0	-OR- 0 /12 =	0 ft ²

How do I set pitches on my drawing?

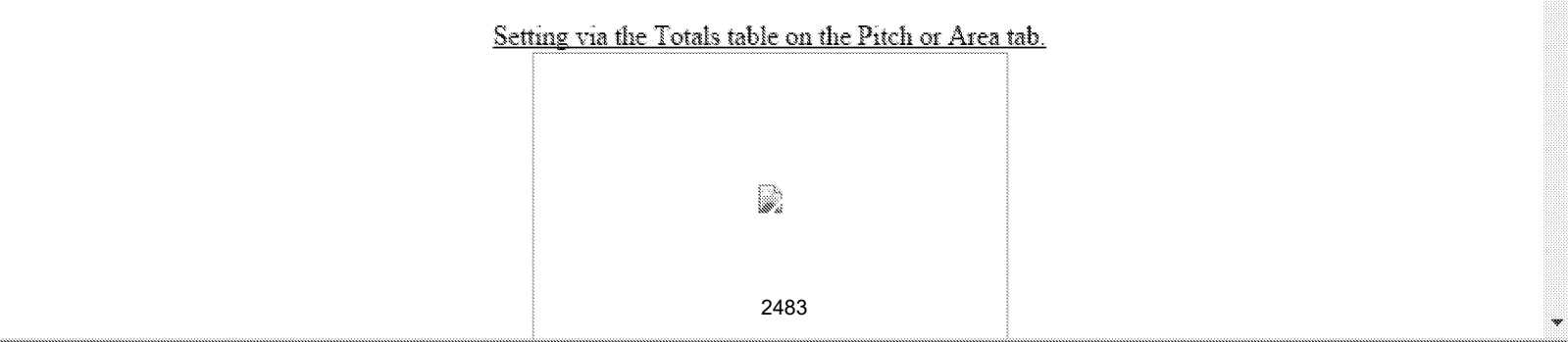
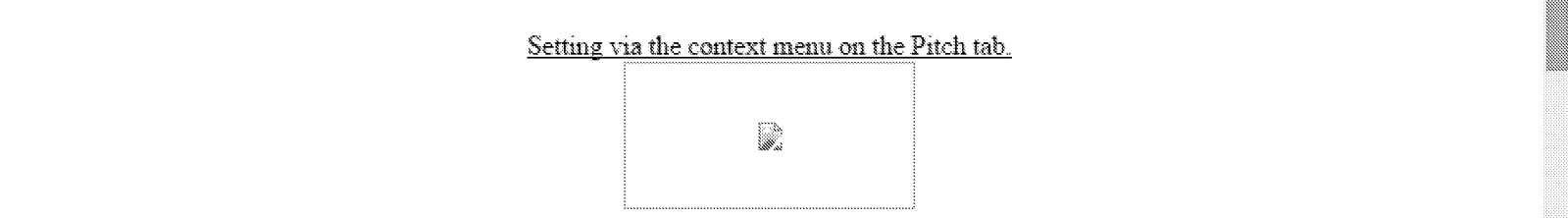
GeoEstimator drawings do not come with actual pitch numbers set, just the downslope direction of the pitch. In order to get the accurate numbers from the drawing the End User needs to input these pitches. The pitches can be set either via the context menu (right-click menu) on the 'Pitch' tab, or the Totals table on either the Pitch or Area tab.

The context menu provides 2 options for setting Pitches: "Set All Pitches", "Set Pitch Direction". The "Set All Pitches" command allows you to input a single number that will be applied to **all** planes on the drawing. The "Set Pitch Direction" brings up a dialog that allows you to set the direction and pitch of a single plane.

When utilizing the Totals tables on either the Pitch or Area tab you can only set the pitch on a per plane basis by selecting the Pitch column for the given plane.

The recommended steps would be the following:

1. Use the 'Set All Pitches' command to set all pitches to the same number.
2. Use either the "Set Pitch Direction" or utilize the Totals table to change the specific planes that differ.



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by: GeoEstimator S.
Updated: 06 Feb, 2009
by: GeoEstimator S.

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When utilizing the Totals tables on either the Pitch or Area tab you can only set the pitch on a per plane basis by selecting the Pitch column for the given plane.

The recommended steps would be the following:

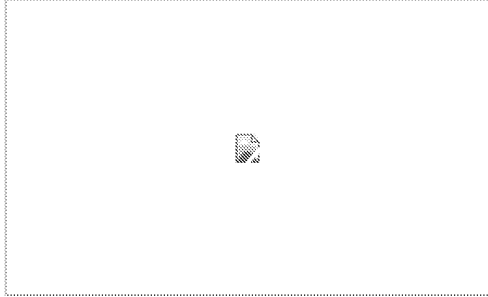
1. Use the 'Set All Pitches' command to set all pitches to the same number.
2. Use either the "Set Pitch Direction" or utilize the Totals table to change the specific planes that differ.

Posted: 06 Feb, 2009
by: GeoEstimator S.
Updated: 06 Feb, 2009
by: GeoEstimator S.

Setting via the context menu on the Pitch tab.



Setting via the Totals table on the Pitch or Area tab.



Also read

- [How do I set the Reference Measurement for my GeoEstimator Drawing?](#)
- [I just received my GeoEstimator Drawing. what do I need to do?](#)

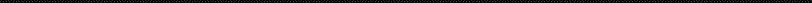
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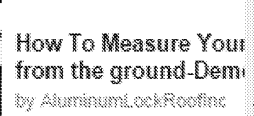
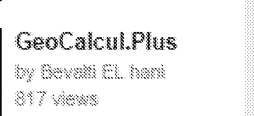
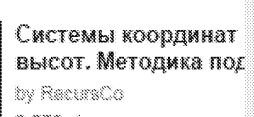
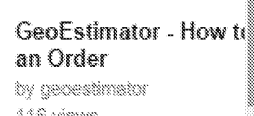
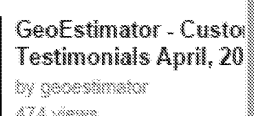
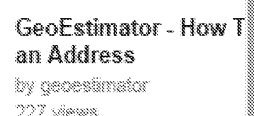
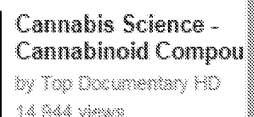
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Eagle View Technologies Roof Estimate Reporting

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Uploaded on May 9, 2009

This video is a short informative collaboration about the Eagle View reporting system that includes aerial photography, roof pitch, valley and ridge, and total square footage. When you opt to get a report with David Washington (817-798-5424), you will be able to estimate your next project without ever getting out

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If this did not cost so much maybe more people would use it.

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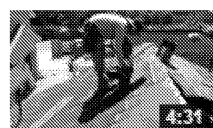
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Sep 20, 2011 - 20 posts - 12 authors
There are areas that are flat, 1/12 or 2/12 pitch but according to the report have ... You of course need to count layers of shingles, type of venting, roof slopes etc.

Roofing.com • View topic - geoestimator... eagle view... etc etc

www.roofing.com/forum/geoestimator-eagle-view-etc-etc-t9154.html ▾
Feb 28, 2010 - 15 posts - 10 authors
It has all the tools to lay out a roof the way Eagle View and the others do. ... if im gonna measure two lengths on the house, and get the pitch... i might as well ...
Roofing.com • View topic - **Measuring** Roofs by Satellite? 13 posts Oct 4, 2011
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Xactimate / Adjusters / **Eagleview** - Roofing.com 15 posts Jul 7, 2011
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www.bloomberg.com/.../eagleview-s-software-measures-... ▾ Bloomberg L.P. ▾
Dec 8, 2011 - Now they can get the precise dimensions of roofs – the area of each section, the pitch, the ... EagleView patches together detailed roof renderings using aerial photos ... "It's very difficult to get an accurate measurement with a tape measure," he ...

[PDF] EagleView™ Technologies Is Changing the Way ...

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Jul 15, 2010 - unbelievable. We are finding that we can take the EagleView measurements which include square footage, lineal footage and pitch, calculate the waste from the.

[PDF] EagleView Measures Up to Reroof Tampa General Hospital

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Aug 11, 2010 - roofing decks including square footage, pitch and parapet details. ...
"Some people think that the reports are only for estimating but we have found that the ...

EagleView > Products_old > Extended Coverage

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Feb 21, 2012 - MUST be field verified and can be entered manually after verification using our pitch calculator tool; A landscape-format report to easily identify the need for

the house. All I need is a picture. Give me an address in CT and one measurement and slope and I will see if I can do it. It is true some areas are hard. When that happens I use pictometry.

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Authentic_Dad

Post subject:

Posted: Tue Jul 27, 2010 5:48 am

offline

Joined: Thu Jul 23, 2009 4:13 am
Posts: 2315
Images: 14
Post liked: 280 times
Liked posts: 581 times

Stormer wrote:

wadman1 wrote:

over here in CT they cant get in close enough to give a good report. any one else having that problem in there state?

I would like to try it. I have developed a way to do it for free with a few free programs. All I need is one measurement on the roof like and eave you can measure from the ground. I do all my siding jobs with one window or door measurement on each side of the house. All I need is a picture. Give me an address in CT and one measurement and slope and I will see if I can do it. It is true some areas are hard. When that happens I use pictometry.

Stormer, would you mind sharing some more detail relating to the free programs you use and the methodology? I'm guessing you use the reference measurement you take for scaling purposes. Even so, there's still a fair amount of work you have to do to get all the measurements and areas on the roof. With a Geoestimator Report running \$35 to \$55, hard to justify the time expenditure. I guess though if they can't get the satellite image, that doesn't work.

I find if someone can provide me with a decent hand sketched roof diagram, the pitches and ground measurements, I can sketch highly complex roofs in Xactimate and get a very accurate count on the squares, hip/ridge, valleys, etc.. I prefer this to Geoestimator and Eagle View as I believe it to be more accurate. I've found both of those programs work reasonably well for less complex roofs but when you get into multi level roofs with lots of overhang, sidewalls, etc., I find they consistently come up a bit short on the count. They also don't typically cover eyebrows and in some cases, small wings.

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found nothing.

So he began experimenting with sites like Microsoft's (MSFT, Fortune 500) Bing and Google (GOOG, Fortune 500) Earth, searching for satellite images. What he discovered surprised him: aerial photography, rather than satellite imagery, could provide better pictures and more accurate measurements.

"I thought there was certainly a huge opportunity out there," says Pershing, 39.

Pershing studied one of his wife's birdhouses, staring at the roof from different angles. He took snapshots in his head of those angles and then sketched various viewpoints of the roof. Over the next few months, he holed up at his computer on nights and weekends, developing software that would use algorithms to infer the size, shape, pitch and area of the roof.

He practiced his algorithms on a few addresses, including his own and his neighbors'. He even pulled up imagery of pyramids in Egypt, estimating the height of the pyramid to within a couple of bricks. He got the slope of his neighbor's homes almost exactly.

By the end of 2007, Pershing quit his job making software for ultrasound machines and started EagleView in a small rented office outside Seattle. He convinced family and friends to invest \$200,000 into his new venture and set out to buy rights to aerial photographs normally used by states, counties and the U.S. Geological Survey.

When Pershing began telling contractors and insurance claims adjustors about his technology, they were skeptical. The industry had for decades measured by hand.

"I thought, 'There is no way,'" says Belz, the Missouri claims adjustor. But once a few big insurers embraced the technology, Belz and others began to follow.

Pershing hired tech veteran Chris Barrow to be CEO in 2008 and changed roles to become chief technology officer. Barrow then raised \$6 million from investors.

"One of the smartest things Chris did was step away," says Roger McOmber, an angel investor in Dallas. "It's hard to do, but it's that team mentality."

Today, EagleView customers can order reports online or through a smartphone app and can get a PDF report delivered in an hour. A dozen competitors, including sites like GeoEstimator.com and Roofwalk.com, offer similar services. Despite the competition and the recession, EagleView's sales grew at a 200% clip last year.

Belz, the claims adjustor, says he can process 25% more claims each day without ever sending an adjustor onto a roof — saving at least 45 minutes per job. "It really speeds the day up for adjustors," he says. "And going onto the roof is one of the most dangerous parts of the job."



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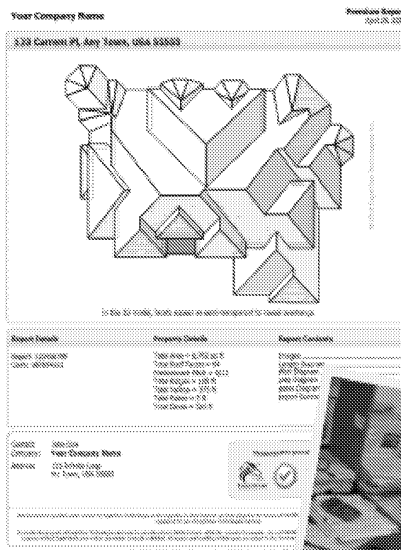
2010 Case Study

EagleView™ Technologies Is Changing the Way Contractors Do Business

Throughout many roofing professionals' careers there has been technology that has literally changed the way they do business. Some are easy to recognize such as fax, cell phone and the Internet while others are very industry-specific such as software for estimating, accounting and production. A new technology that is again changing the course of the roofing industry has been developed and perfected over the last two years by EagleView Technologies out of Bothell, Wash. — aerial roof measurement reports.

For generations, roofing estimators have been climbing ladders and measuring roofs. "Measuring roofs takes time, money and is a huge safety concern for our company," stated Bill Gabel, an estimator for Interstate Roofing of Portland, Ore., since 1994. "It easily adds two hours to estimating for every job that I could be spending on the next estimate." When asked what he has done to change that, he was very definite, "We pull an EagleView report."

Software as a service is the new terminology for what EagleView is providing the roofing industry. "We are in our sixth generation of aerial measurement software technology and improving it every day," stated Chris Barrow, president and CEO of EagleView Technologies. "It is the next revolution in high tech. Instead of roofing contractors spending thousands installing software and maintaining crews in-



■ Sean Clay has been an estimator with Interstate Roofing, Portland, Ore., since 1995.

house, they simply place an order on the internet for a roof measurement report and they are ready to estimate the job in hours."

Interstate Roofing, one of Portland's largest residential and commercial roofing companies, started out using the EagleView reports on just large and complicated jobs. What they have seen since then is an overall shift in how they do business utilizing the EagleView reports.

"Before I would pull up to a house and see the complexity of the roof and after talking to the homeowner, go back to the office and order an EagleView report. Now I know which neighborhoods have the large cut-up

roofs and I am starting to order the reports before my appointment. Now when I show up, I am prepared and it is making a huge difference with homeowners," stated Gabel.

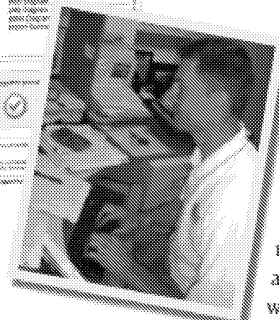
"What it really does is give you a sense of confidence in your estimate," agreed Sean Clay, an estimator with Interstate Roofing since 1995. "The accuracy of these reports is unbelievable. We are finding

that we can take the EagleView measurements which include square footage, lineal footage and **pitch**, calculate the waste from the report's waste table and we are right on with our estimate. In

this economy, homeowners want to know that they are getting exactly what they need, no more, no less."

"I have two jobs just recently where I estimated the roofs and then we pulled an EagleView report," confirmed Gabel. "In reviewing the results with production, EagleView was dead on. It is hard for us estimators who have been doing it for a long time to put that much faith in a report but I am consistently finding savings of at least two squares or more in my estimates. In today's competitive economy, two squares can win or lose the job."

For more information, visit www.eagleview.com.



What is your service coverage?

Our service coverage spans over 90% of the populated areas in the United States and several areas in Canada. We are continually working on expanding coverage for all areas in the United States, as well as other regions. Typically, image quality and coverage is greater for highly populated areas, whereas coverage for rural areas can be more limited.

General

How do you determine the pitch?

Our proprietary patented software uses advanced image processing techniques to determine the pitch angles from aerial photographs. EagleView's patented measurement technology allows us to accurately determine pitch in order to produce true, complete measurements in multiple dimensions. Because our measurements are generated from 3D diagrams, they maintain the true integrity and accuracy of the structure.

How current are your images?

EagleView uses the most recent, highest resolution image libraries available. Typically, the best available imagery is less than two years old. Areas of higher population growth or susceptibility to catastrophic storms are often photographed more frequently, whereas rural areas may be photographed less frequently.

What is your Accuracy Guarantee?

EagleView Premium and Solar Reports are guaranteed to be more accurate than any other measurement method. If you disagree for any reason, you won't be charged for the report. Each EagleView Premium and Solar report goes through a five-step quality control process which allows us to deliver precision accuracy. Our Accuracy Guarantee is only available on Premium and Solar reports which offer complete measurements, including pitches. All other reports offer our Satisfaction Guarantee. If for any reason you aren't satisfied with your order, we will refund the cost of the report. For questions about our Accuracy Guarantee contact us at customerservice@eagleview.com.

Why do you ask me to move the marker?

When you search for a property, a marker is placed on the map at the address coordinates. Sometimes the marker is positioned in an ambiguous location (such as the middle of a street or field) or there are multiple buildings on the same parcel of land. If this is the case, the marker will need to be re-positioned to ensure the correct structure is measured. You can also add notes in the optional information section to provide additional information relevant to locating your structure.

My email said the images were unavailable. What does this mean?

Properties are measured from aerial images. In some cases these images may not be suitable for an accurate building measurement because the image quality is not sufficient (e.g. low resolution, blurry), or because too much of the building is obstructed (e.g. trees, debris). EagleView maintains a high standard for quality and accuracy and our image libraries are constantly growing. If your property cannot be accurately measured, you will not be charged for the report.

Create a custom cover page by logging in to My EagleView and choosing Account Settings. Alternatively, you can set up a custom cover page at the time your order is placed during the Add Instructions step of the ordering process. If you have questions or would like help setting up your cover page, please call customer service at 1-866-659-8439. If you already have a custom cover page associated with your EagleView account, it will be used for all QuickSquares Reports ordered.

Does the QuickSquares Report include any kind of guarantee?

We do not offer an accuracy guarantee, but as with any EagleView product, if you are not 100% satisfied your purchase price will be refunded.

What is Extended Coverage for QuickSquares?

Extended Coverage meets the demand for extended geographical coverage and the need to measure as many roofs as possible. Extended Coverage is offered as a substitution option when EagleView QuickSquares Reports are not available due to obstruction or lower-image quality. Refer to the Extended Coverage FAQ for more details.

I upgraded to a PremiumReport and the measurements are different than my QuickSquares. Why?

The QuickSquares Report provides the total rounded squares of a structure to allow you to quickly deliver an estimate. When you upgrade to a PremiumReport, the property is re-measured using EagleView's patented 3D technology to provide precise numbers for material ordering and production planning. In some cases the numbers on the reports may vary. For instance, the QuickSquares Report relies on the predominant pitch of the roof but exact pitch of each section is used for a Premium so this could result in numbers that are slightly different.



Reports

What information is included with a PremiumReport?

PremiumReports come with aerial images of the property, a 3D diagram of the roof, length, area, pitch, and note diagrams and a summary page with waste table calculations.

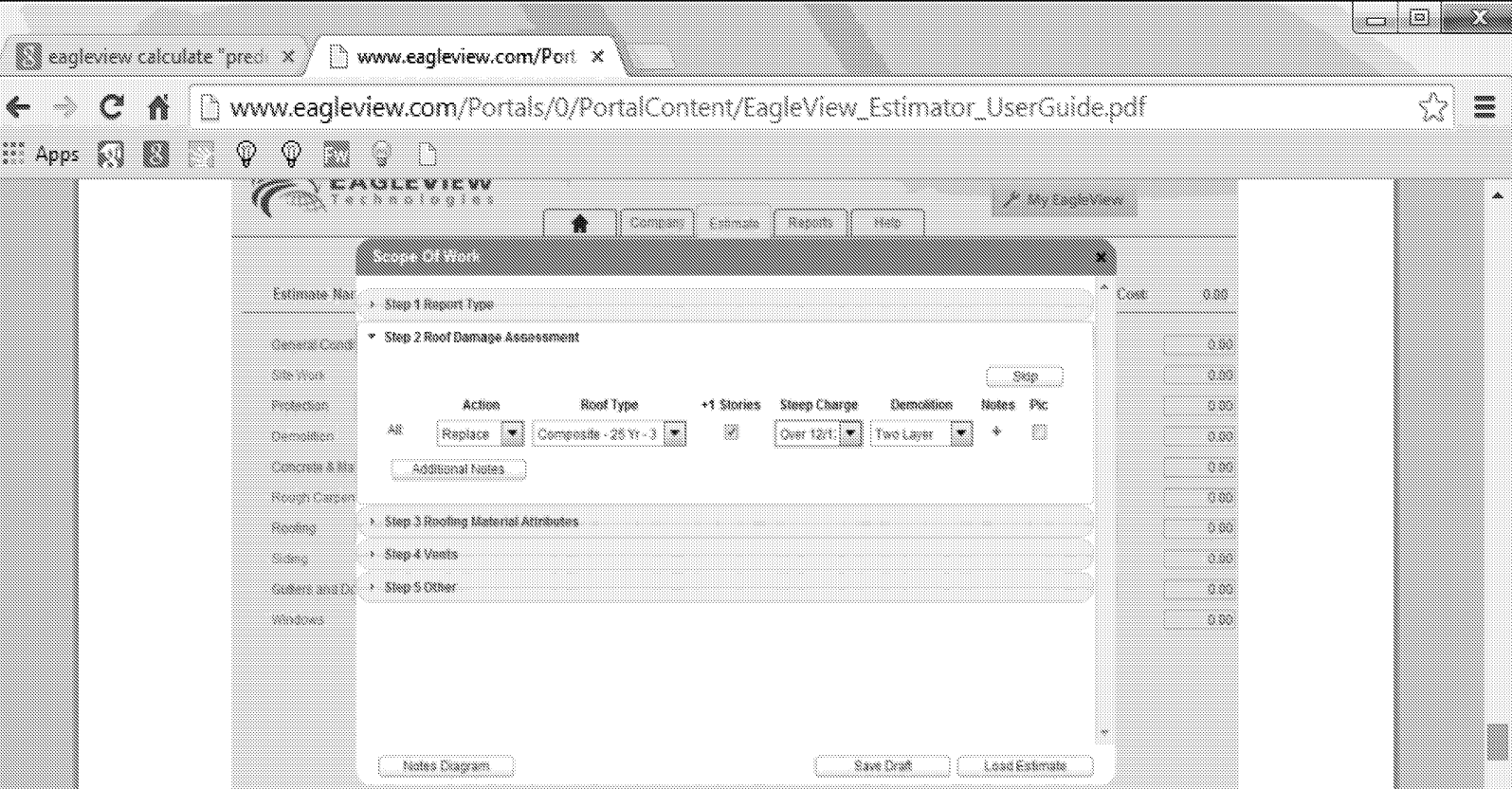
What information is included with a StandardReport?

StandardReports come with an aerial image of the property. After pitch is provided through the StandardReport website a report is generated offering length, area, pitch, and note diagrams. The StandardReport is generated after the customer manually enters in the pitch values for the roof.

Can I convert a StandardReport to a PremiumReport?

This may be possible. Please call our customer service department at 1-866-659-8439 to see if we can assist you.

How do I edit and generate a StandardReport?



Action – Select the action to be performed on the roof. The options are to Repair or Replace. You may also choose No Damage to indicate damage is not present.

Roof Type – Choose the roofing materials required to complete the project (Composite, Metal, etc.)

+1 Stories – Place a checkmark in this box if additional charges are to be added based on the number of stories in the structure.

Steep Charge – Select pitch value if additional charges are to be added based on the structure's pitch.

Demolition – Choose the Demolition to be completed.

Notes – Add any notes for this area by clicking on the green plus sign in the line item. If notes are present for a line item, a blue checkmark ✓ will appear. You may also add notes by clicking on the 'Additional Notes' button.

Pic – Indicate whether pictures have been obtained for this area.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L3	0	1 and 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 21:46
S6	1	13/424054	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:17
S7	10	"20100179787" "20100110074" "20100114537" "20110187713" "8078436".pn. 12/090692	US-PGPUB; USPAT	OR	ON	2014/04/10 17:33
S9	21	aerial adj roof adj estimat\$4	US-PGPUB; USPAT	OR	ON	2014/04/10 17:35
S10	4	(US-20100114537-\$ or US- 20100179787-\$ or US-20100110074- \$.did. or (US-8078436-\$).did.	US-PGPUB; USPAT	OR	ON	2014/04/10 17:37
S11	23	predominant adj pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:37
S12	0	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:37
S13	3	(predominant adj pitch) and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:38
S14	4	S10 and pitch	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/04/10 17:39

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S15	8079	pitch near4 averag\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:42
S16	0	S10 and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:42
S17	1	S15 and S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:42
S18	2	"20100114537" and pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 21:51
S19	5	"8078436".pn. "8145840".pn. "8209152".pn. "8515125".pn. "8515198".pn.	US-PGPUB; USPAT	OR	ON	2014/04/11 16:46
S20	5	"8078436".pn. "8170840".pn. "8209152".pn. "8515125".pn. "8515198".pn.	US-PGPUB; USPAT	OR	ON	2014/04/11 16:46
S21	5	"8078436".pn. "8170840".pn. "8209152".pn. "8515198".pn. "8401222".pn.	US-PGPUB; USPAT	OR	ON	2014/04/11 16:47
S22	2	"20100296693"	US-PGPUB; USPAT	OR	ON	2014/04/11 16:48
S23	2	"20100296693" and pitch	US-PGPUB; USPAT	OR	ON	2014/04/11 16:49
S24	1	"20130246204" and (pitch same averag\$3)	US-PGPUB; USPAT	OR	ON	2014/04/11 16:58
S25	0	"20100296693" and footprint	US-PGPUB; USPAT	OR	ON	2014/04/11 21:30
S26	2	"20100296693" and computer	US-PGPUB; USPAT	OR	ON	2014/04/11 21:45
S27	2	"20100296693" and edge	US-PGPUB; USPAT	OR	ON	2014/04/11 21:53
S28	2	"20100296693" and oblique	US-PGPUB; USPAT	OR	ON	2014/04/11 21:54
S29	2	"20100296693" and orientation	US-PGPUB; USPAT	OR	ON	2014/04/11 21:55
S30	2	"20100296693" and automatic	US-PGPUB; USPAT;	OR	ON	2014/04/11 21:57

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S31	2	"20100296693" and automatic\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 21:57
S32	2	"20100296693" and (seller contrator retailer merchant vendor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:01
S33	22521	705/26.1-27.2.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:06
S34	11	(thornberry near2 chris).in. (thornberry near2 dale).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:06
S35	45261	(image and roof)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:06
S36	10	S34 and S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:06
S37	2	"20060200311"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:08
S38	372	(find\$3 locat\$3 determin\$3) with (contractor near3 location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:10

S39	171240	"705".clas.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:10
S40	108	S38 and S39	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:10
S41	38	(find\$3 locat\$3 determin\$3) adj2 (contractor near3 location)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:11
S42	7	(find\$3 locat\$3 determin\$3) adj2 (contractor adj2 location)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:11
S43	31	(find\$3 locat\$3 determin\$3) adj2 (contractor adj5 location)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:11
S44	17	S39 and S43	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:11
S45	1	"20020087332" and location	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:14
S46	17755	705/26.1,26.5,27.1.ccls. G06Q30/0621 G06Q30/0641	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:24
S47	596	(estimat\$3 same roof\$3 same (size area footprint))	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2014/04/11 22:24

			DERWENT; IBM_TDB			
S48	5	S46 and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:25
S49	99	(estimat\$3 same roof\$3 same (size area footprint)) and aerial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:25
S50	1	S46 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:25
S59	17	"8078436".pn. "8145578".pn. "8170840".pn. "8209152".pn. "8515125".pn. "8515198".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 17:51
S60	0	(predominant adj pitch) and S59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 17:54
S61	664	((predominant primary) adj2 pitch) near2 pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 17:57
S62	10	((predominant primary) adj2 pitch) near2 roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 17:57
S63	8	S59 and pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 17:58
S64	2	13/424054 and pitch	US-PGPUB; USPAT; USOCR;	OR	ON	2014/11/20 18:04

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S65	0	roof same (pitch same (area near2 (percent percentage))same (sum add adding! added!) same weight\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:17
S66	34	roof same pitch same area same (weight\$3 (percent percentage)) same (sum add adding! added!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:17
S67	5	roof same area same (weight\$3 near4 pitch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:20
S68	13	roof same (estimat\$3 near2 area) same pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:21
S69	17	12/467,244	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:23
S70	6	"20060036513"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:30
S71	14	roof same (average adj pitch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:39
S72	70	pitch and (slope adj factor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:47
S73	8	roof and pitch and (slope adj factor)	US-PGPUB;	OR	ON	2014/11/20

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:47
S74	1	"20130246204" and "slope factor"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:52
S76	2	geoestimator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:24
S77	2	S76 and (pitch area)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:25
S78	0	eagleview and predominant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:42
S79	0	eagleview and primary adj pitch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:42
S80	11	eagleview and ((determin\$3 calculat\$3 estimat\$3) near2 pitch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:43
S81	3	eagleview and ((determin\$3 calculat\$3 estimat\$3) near2 pitch).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 20:46
S82	14817	703/1-2.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/11/20 20:47

			IBM_TDB		
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EAST Search History (Interference)

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S51	6384	705/26.1-27.2.ccls.	USPAT; UPAD	OR	ON	2014/04/11 22:06
S52	3	(thornberry near2 chris).in. (thornberry near2 dale).in.	USPAT; UPAD	OR	ON	2014/04/11 22:07
S53	13851	(image and roof)	USPAT; UPAD	OR	ON	2014/04/11 22:07
S54	3	S52 and S53	USPAT; UPAD	OR	ON	2014/04/11 22:07
S55	0	"20060200311"	USPAT; UPAD	OR	ON	2014/04/11 22:08
S56	3932	705/26.1,26.5,27.1.ccls. G06Q30/0621 G06Q30/0641	USPAT; UPAD	OR	ON	2014/04/11 22:24
S57	172	(estimat\$3 same roof\$3 same (size area footprint))	USPAT; UPAD	OR	ON	2014/04/11 22:25
S58	1	S56 and S57	USPAT; UPAD	OR	ON	2014/04/11 22:25
S75	5	roof same (average adj pitch)	USPAT; UPAD	OR	ON	2014/11/20 18:40
S83	5358	703/1-2.ccls.	USPAT; UPAD	OR	ON	2014/11/20 20:47

11/ 20/ 2014 9:49:16 PM
C:\ Users\ mzimmerman1\ Documents\ EAST\ Workspaces\ 13424054.wsp

Search Notes 	Application/Control No. 13424054	Applicant(s)/Patent Under Reexamination THORNBERRY ET AL.
	Examiner MATTHEW ZIMMERMAN	Art Unit 3684

CPC- SEARCHED		
Symbol	Date	Examiner
G06Q30/0621	4/11/2014	MZ
G06Q30/0641	4/11/2014	MZ

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
705	26.1,26.5,27.1	4/11/2014	MZ

SEARCH NOTES		
Search Notes	Date	Examiner

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
705	26.1,27.1,26.5	4/11/2014	MZ

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EagleView® iPhone® App User Guide

For iPhone OS 3.1 Software and Higher



866-659-8439 | www.eagleview.com





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Overview

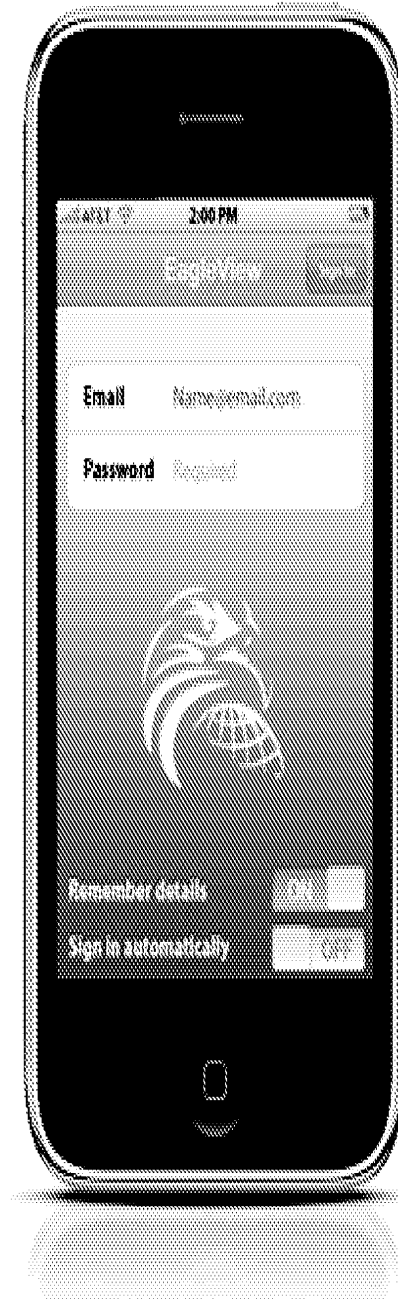
Do you wish you could place orders, view measurement details and check the status of pending orders when you're out in the field?

Now you can.

EagleView iPhone® mobile application works seamlessly with your iPhone or iPod® Touch¹, providing on-site ordering based upon your GPS locations and handy access and storage for all of your measurement details. Save time when you're on the go – pair it with your online usage for complete portability!

Available Features:

- Use your same eagleview.com credentials to log in
- Easily place new orders anytime, anywhere
- Attach property photos to your order
- Check the status of pending orders
- Receive completed orders as soon as they're ready
- View and store all of your reports on your phone
- Access valuable report measurement data and details while away from your desk
- The same quality, accuracy and customer service you deserve



¹ Currently, the EagleView iPhone Application works within the limits of the iPod hardware. The present generation of iPod Touch does not have a camera, GPS chip, or 3G connectivity. Therefore, on the iPod Touch, the camera-related features are disabled. And, due to the lack of GPS-related features and 3G connectivity, the EagleView iPhone Application will run in an 'offline' mode until the device is connected to a WiFi hotspot.



Getting Started

Congratulations on deciding to use the EagleView iPhone Application. The following sections will outline some of the primary functionality of this application.

Installation

On the iPhone, the customer will click the **App Store** icon on their desktop to locate and download the EagleView iPhone Application.²

From here, click on the EagleView iPhone Application in the list and simply follow the instructions to download and install the application.

² Connection to the Internet is required for installation and to download the most recent **Completed** or **In Progress Orders**. If no, or poor Internet connection is detected, an alert appears.





Launching

After installation, tap the EagleView iPhone Application icon on your device desktop to launch this program.

Sign-In Screen

You'll find the sign-in process to be easy and similar to most sign-in pages. Enter your email address and password to sign into the EagleView iPhone Application. These are the same credentials you use on www.eagleview.com currently.

Now, click the **Sign-In** control in the **Navigation** bar.





Sign-In Screen Settings

Remember details

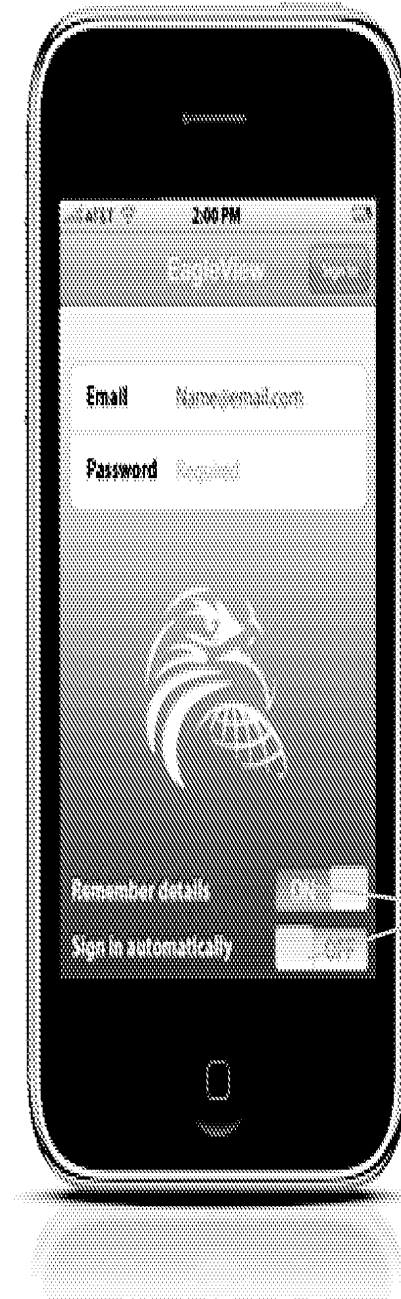
By enabling this option, the EagleView iPhone Application will remember your settings between uses.

Sign in automatically

This setting enables or disables automatic sign in. This will save time on a personal phone, but should be disabled (OFF) on phones that may have multiple users.³

With this setting enabled, this screen will not appear each time you launch this application.

Note: These may be changed in the **Settings** screen later.



³ Connection to the Internet is required to download the most recent completed or in progress orders. If no or poor Internet connection is detected, an alert appears.



Current Orders

After tapping Sign In, the application synchronizes and loads your current orders. When this process is complete, your Completed Orders are displayed.

At the bottom of the screen, in the tab bar, are four controls.

Completed

The first tab displays the **Completed Orders** table view.

In Progress

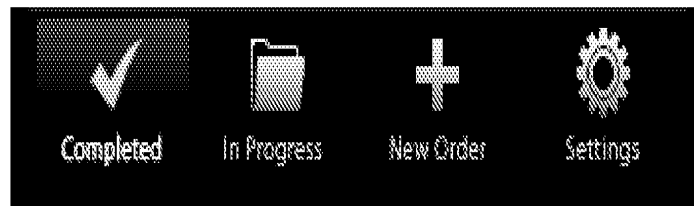
The second tab displays the **In Progress Orders** table view and all orders that are currently being completed at EagleView.

New Order

The third tab is used to place a **New Order** with EagleView.

Settings

The last tab displays values that may be set to affect all subsequent launches of the EagleView application.





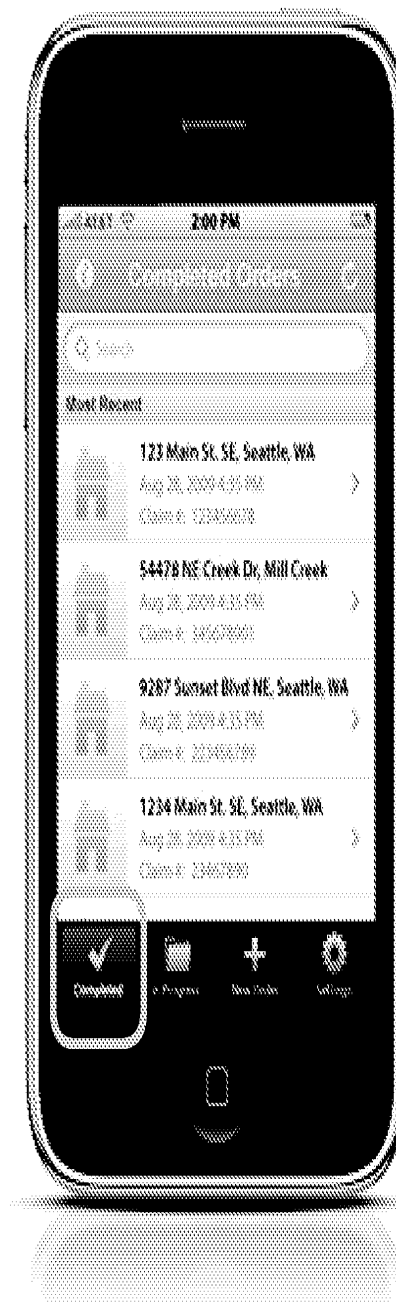
Completed Orders

Each order in the **Completed Orders** table view reflects the address and date/time that the order was completed in chronological order.

By default, this table view shows the latest 25 orders.

The **Claim #** is a customizable value, which may be changed to something else like **Cat ID** or **Batch ID**.

Note: You may change the data displayed in this table view via the **Settings** screen.





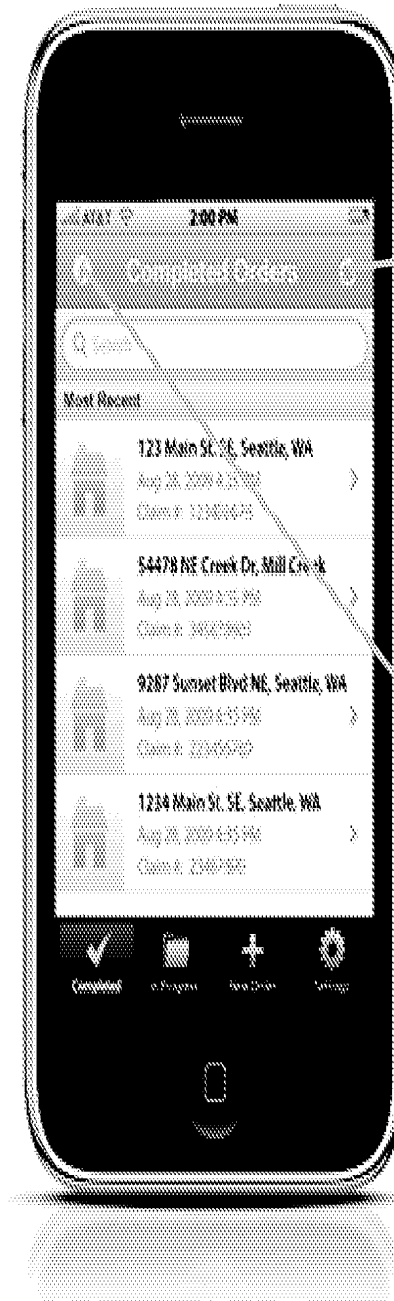
Sort

As mentioned earlier, the **Claim #** value may be changed to enable you to automatically sort your orders differently. Tap the (Info) control, on the left of the navigation bar, to display the **Sort** filter picker.

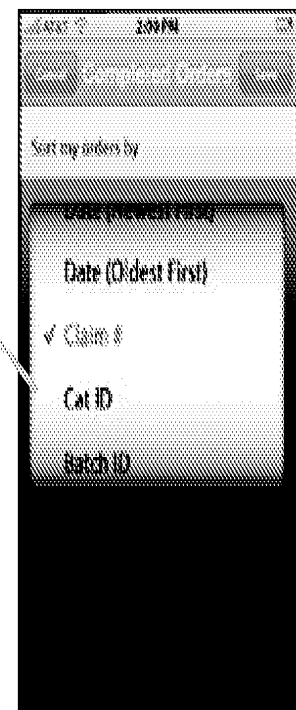
Now, swipe the picker up or down and tap on the value that you'd like to sort by. Then tap **Save**.

Refresh

The (Refresh) control, on the right of the navigation bar, updates the table view.



The Refresh button will update the table view.



The Info control allows you choose the way you want to sort your completed orders.



Info and Details

By tapping on an order on the Completed Orders screen, details appear in a grouped table view with the following items:

- **Photo** (or house icon) if photo was submitted at the time you placed the order
- **Order ID**
- **Address** of property
- **Claim #**
- Total **Area** of roof
- Predominant **Pitch**
- Total **Ridge Length**
- Total **Valley Length**
- Total **Eave Length**
- Total **Rake Length**
- **View Photo** To view the photo in this order
- **More Details** Tap to display **More Details**



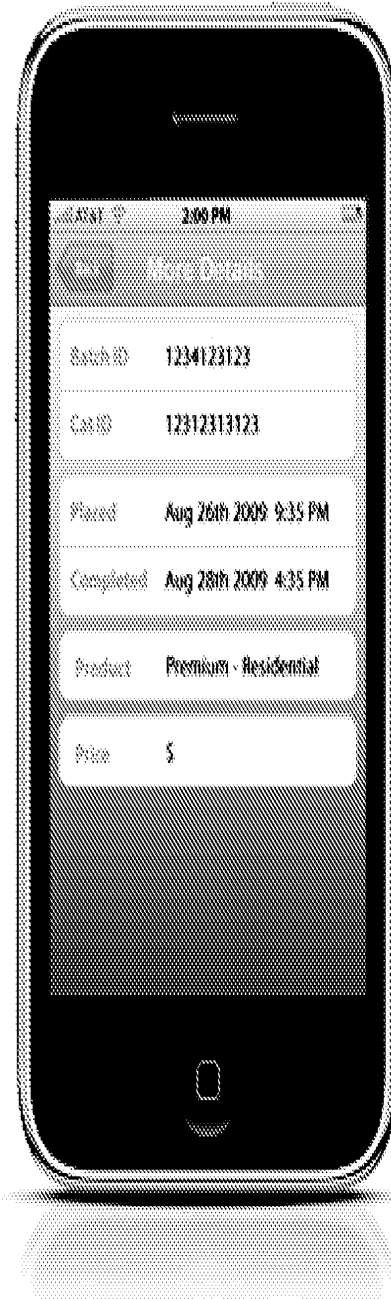


More Details

This screen provides more information about your order.

Items on this screen are:

- **Batch ID:** Used if this order were part of a batch order
- **Cat ID:** Your value based upon the possible cause of the repair
- **Placed:** Date/time order was placed
- **Completed:** Date/time order was completed
- **Product:** If this is a commercial or residential property
- **Price**





In Progress Orders

Tap **In Progress**, at the bottom of the screen, to display a table view of your orders that are currently being processed at EagleView.

The resulting table view appears in the same layout as the **Completed Orders** table view. As with **Completed Orders**, it displays 25 orders in the table unless you tap on **Show More...**

Note: If an order has been saved on your phone, but has not been submitted yet, it appears under the **Not Sent Orders** heading at the top of the table view.

Search

Since you could potentially have many orders in the **Completed Orders** or **In Progress Orders** table views, the Search feature may be invaluable in locating a specific order.

The search feature looks to any matching string in your table view. So if you enter a search string that appears in one or more addresses along with one or more claim numbers, all of these orders will be displayed.



The Search function helps you locate Completed and In Progress Orders.

Not Sent Orders appear at the top of the In Progress Orders.

Show More...

If there are more than 25 orders to display in the Completed Orders or In Progress Orders table view, Show More... appears at the bottom to allow you to refresh the table view with more orders.





To use the Search feature:

1. Tap on the **Search** text field above your table view.
The keyboard control appears immediately.
2. Enter the text you are searching for. Notice that the table view of orders updates dynamically as you enter text into the **Search** text field.

3. Tap **Search** in the bottom right corner of the keyboard control. Note that the keyboard and **Cancel** control disappears and your table view is updated to reflect your search criterion.

The **Cancel** control is only visible when the keyboard is displayed. To return to your full table view and hide the keyboard, simply tap on **Cancel**.

To clear your current **Search** text control, tap the button to the right of the **Search** text field.





New Orders

To place a new EagleView order tap the **New Order** tab at the bottom of the screen in the tab bar.

On the **New Order** screen, there are two choices:

Use Current Location – Displays the **Map** screen

Add New Address – Displays the **Address** screen

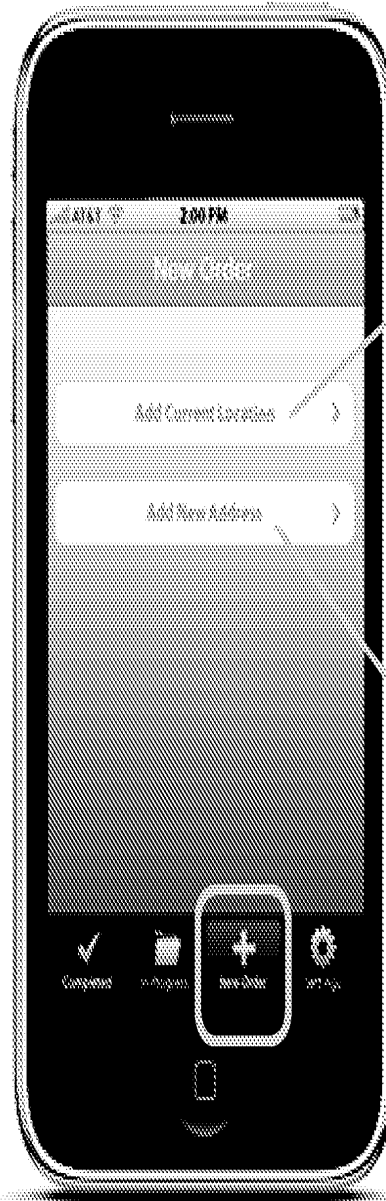
Map

This control marks your current location on a map.

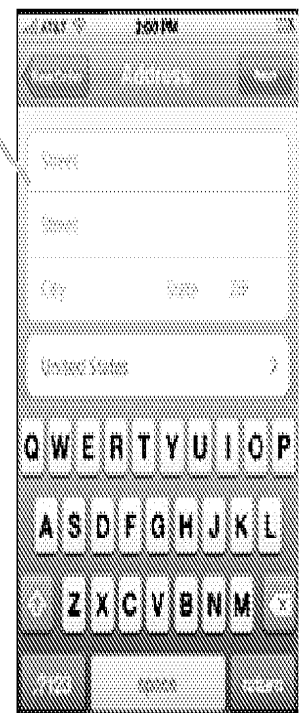
Note: You may change settings to turn **Use Current Location** off to skip this screen and see the **Address** screen in the future.

Address

Or you may enter the address manually.



Map Screen



Address Screen



Maps

After tapping on **Use Current Location** on the **New Order** screen, a map is displayed with a pin marking the current location.

Five controls are displayed below the map. The control on the left, with a compass icon, displays the current GPS coordinates on the map. It triangulates your current location and displays it on the map.

Then tap on the map over the building to be measured to place the pin. The three center controls alter the map appearance.

- **Map** – default map view with street labels
- **Satellite** – photographic map
- **Hybrid** – photographic map with street overlay

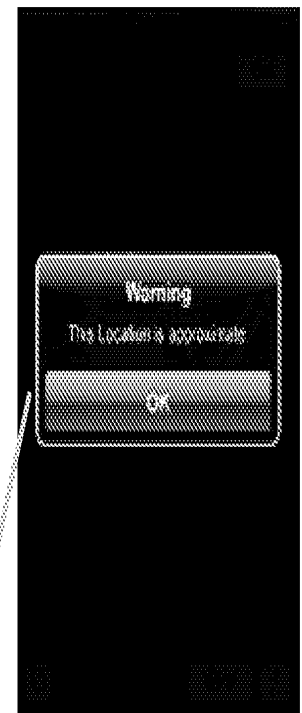
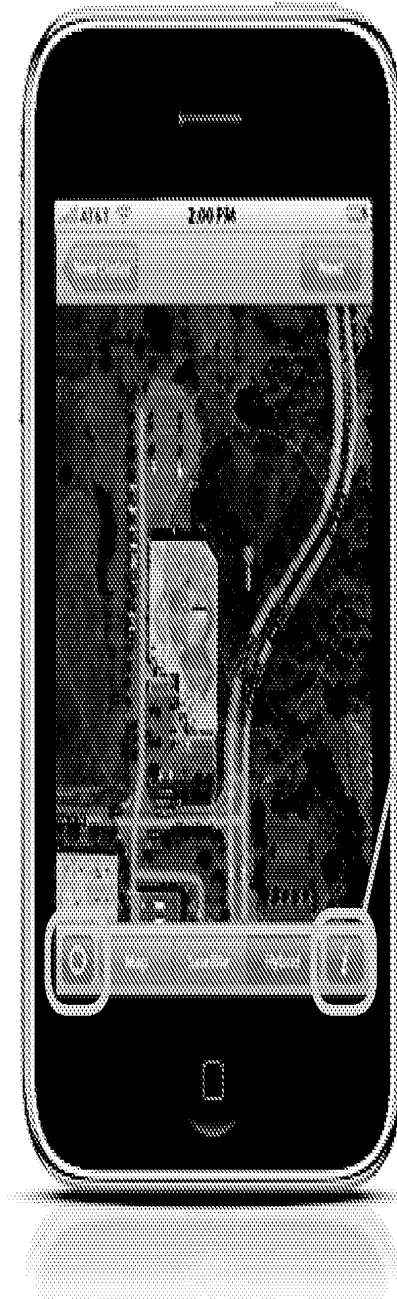
The control on the right provides you with short instructions in an alert.

Map Alert

An alert appears if the address is not identified exactly.

Upon tapping **OK**, the **Info** screen appears.

When the correct location is marked on the map, tap **Next** to verify the address.



Map Alert
An alert appears if the address is not identified exactly. Upon tapping **OK**, the info screen appears.





Address

From here, you may tap **Back** to return to the map.



If the address is not correct, tap on a line to display the keyboard and alter the text.

Tap **Next** to proceed to the **New Order** screen when you're sure the address is correct.





Photos

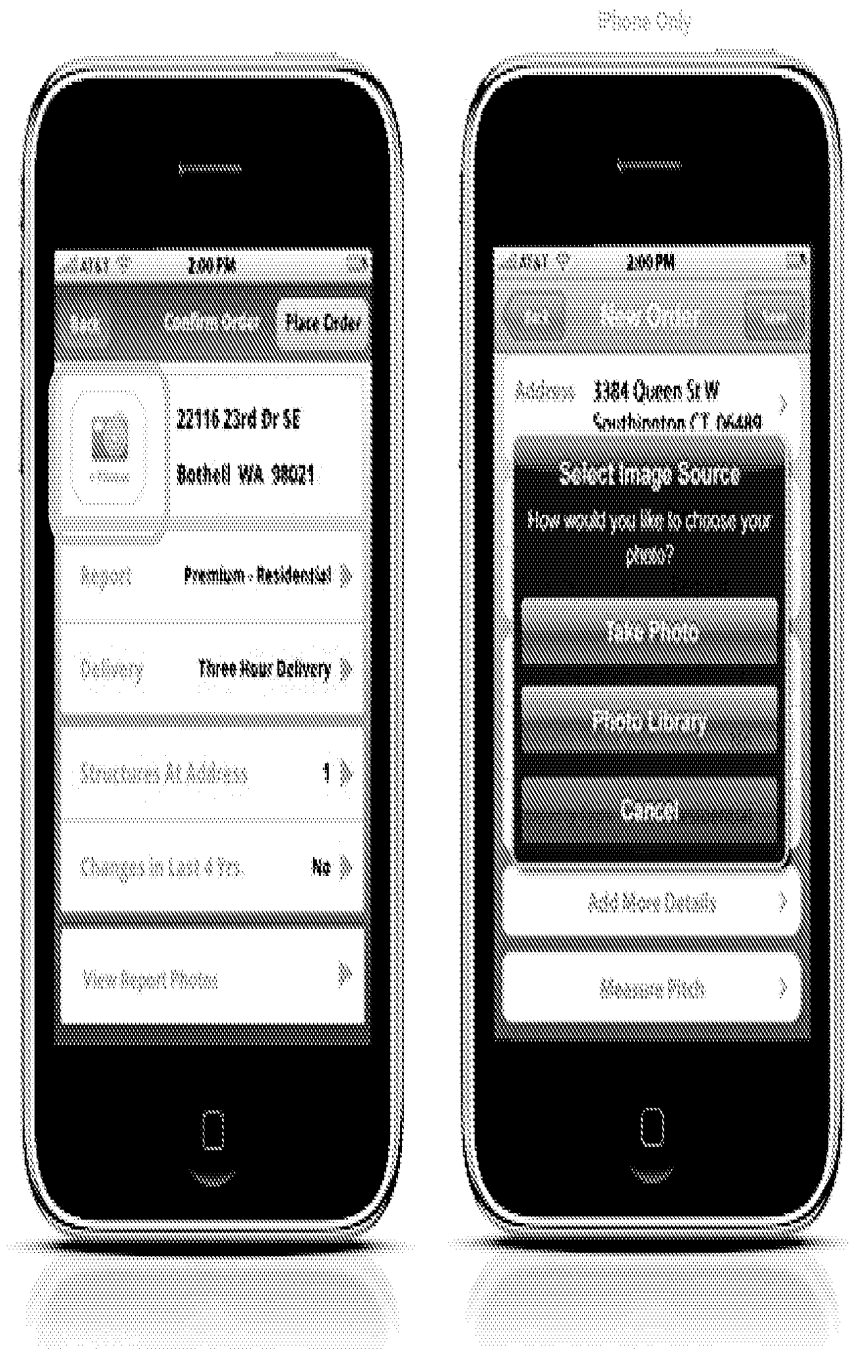
Now that the address has been entered, you may choose a photo of the property, using the camera on your iPhone device or uploading from the **Photo Albums**. On the **New Order** screen, simply tap on the camera icon on the top left.

Select Image Source

If you are using an iPhone, an alert appears prompting you to select either **Take Photo** or **Photo Library** as your image source.

If you are using an iPod Touch, you are automatically directed to your **Photo Albums** screen and do not see the alert.

Note: The screen on the right only appears on the iPhone.





Take Photo

If you're on site, you may wish to take a photo of the property. Use the built-in camera on your iPhone device.

Tip: When taking the photo, once you see the house on your screen, straighten the image and make sure you can see it all. Next tap the control to take the photo. Then tap **Save** to keep the photo with your order.

Important: This photo will be uploaded to EagleView when the order is placed. This photo will be included in the report on a separate page. It will also remain on your device for future reference.





Photo Albums

Follow these steps to select a photo from the **Photo Albums** on your device.

1. In the **Photo Albums** screen, tap on the appropriate library and tap on an image.
2. A large version of that image appears.
Now tap either **Cancel** or **Choose**.
3. If you tap **Choose**, this image appears with the new order.





Order Completion

After tapping Save, above the map or above the Add Address screen, the New Order screen appears with your data. From here, alter the options such as:

- **Report**
- **Delivery**
- **Structures At Address**
- **Changes in Last 4 Yrs.**
- **More Details**

Report

From here, you may select the type of report you are ordering.

The choices may include:

- **Standard – Residential**
- **Premium – Residential**
- **Premium – Commercial**

Delivery

Now, you may select the delivery method for your order.

The choices may include:

- **Express Delivery**
- **Three Hour Delivery**
- **Regular Delivery**

Note: These choices will affect pricing



Report choices may include:
Standard – Residential
Premium – Residential
Premium – Commercial

Delivery choices may include:
Express Delivery
Three Hour Delivery
Regular Delivery



Structures At Address

Select a number to reflect the number of structures that must be measured for the order.

Tip The Previous and Next controls are there to move between the various options like **Structures**, **Changes in Last 4 years**, not between the values on the picker.

Changes in Last 4 Yrs.

When you tap on this item, you may choose between **Yes** and **No** on the picker.

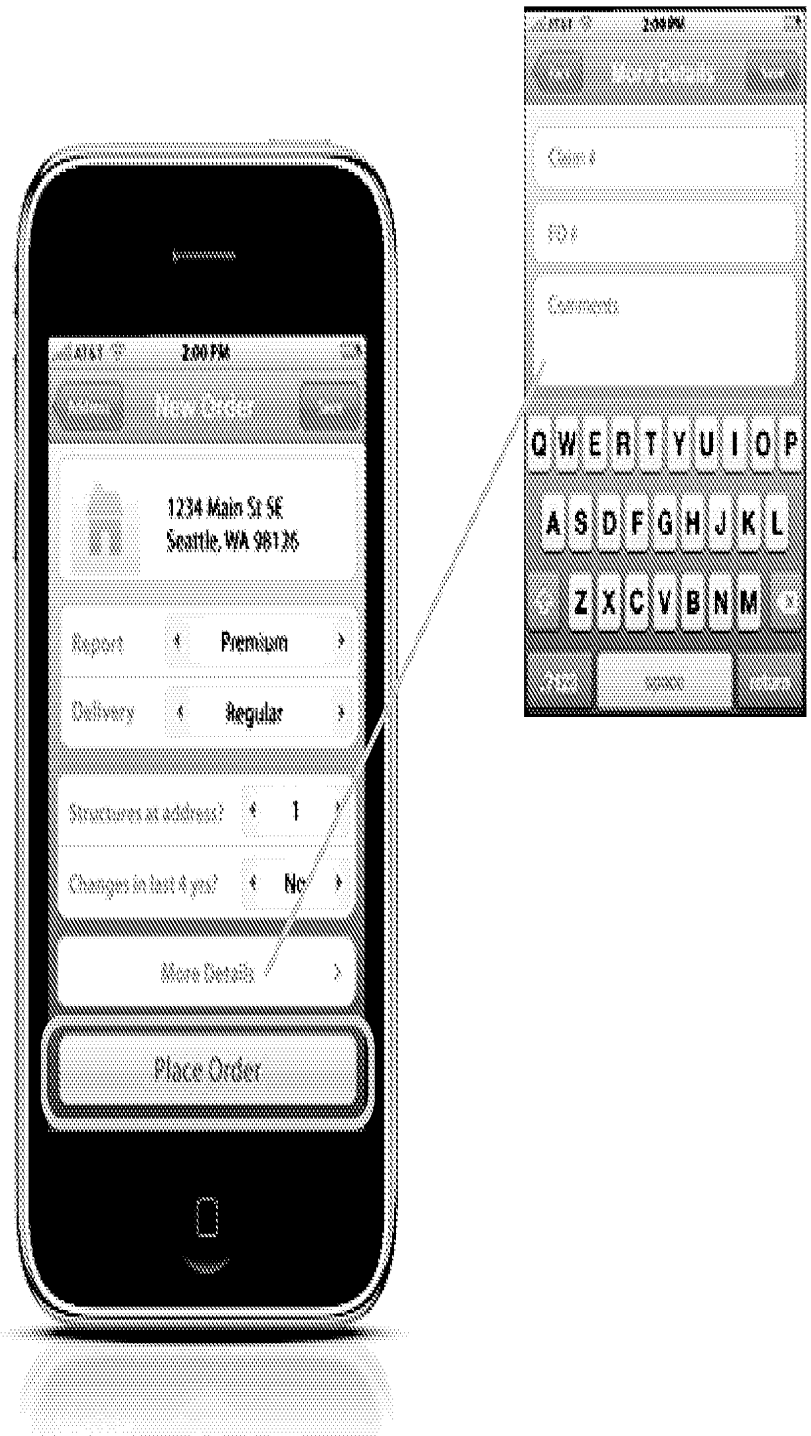
More Details

Tap More Details to enter the:

- Claim #
- Claim Info
- Purchase Order (PO #) number
- Comments
- Recipients

Place Order

Swipe down this table view for additional options. At the bottom of this screen, tap on **Place Order** to send the request to EagleView.





Settings & Other Functionality

Settings

As with many programs, the EagleView iPhone Application also has settings that you can use to configure the application.

These settings include:

- **Remember Details**
- **Auto Login**
- The default **Orders** table view value to **Show**.





Photo Manager and Photo Editor (iOS Platform)

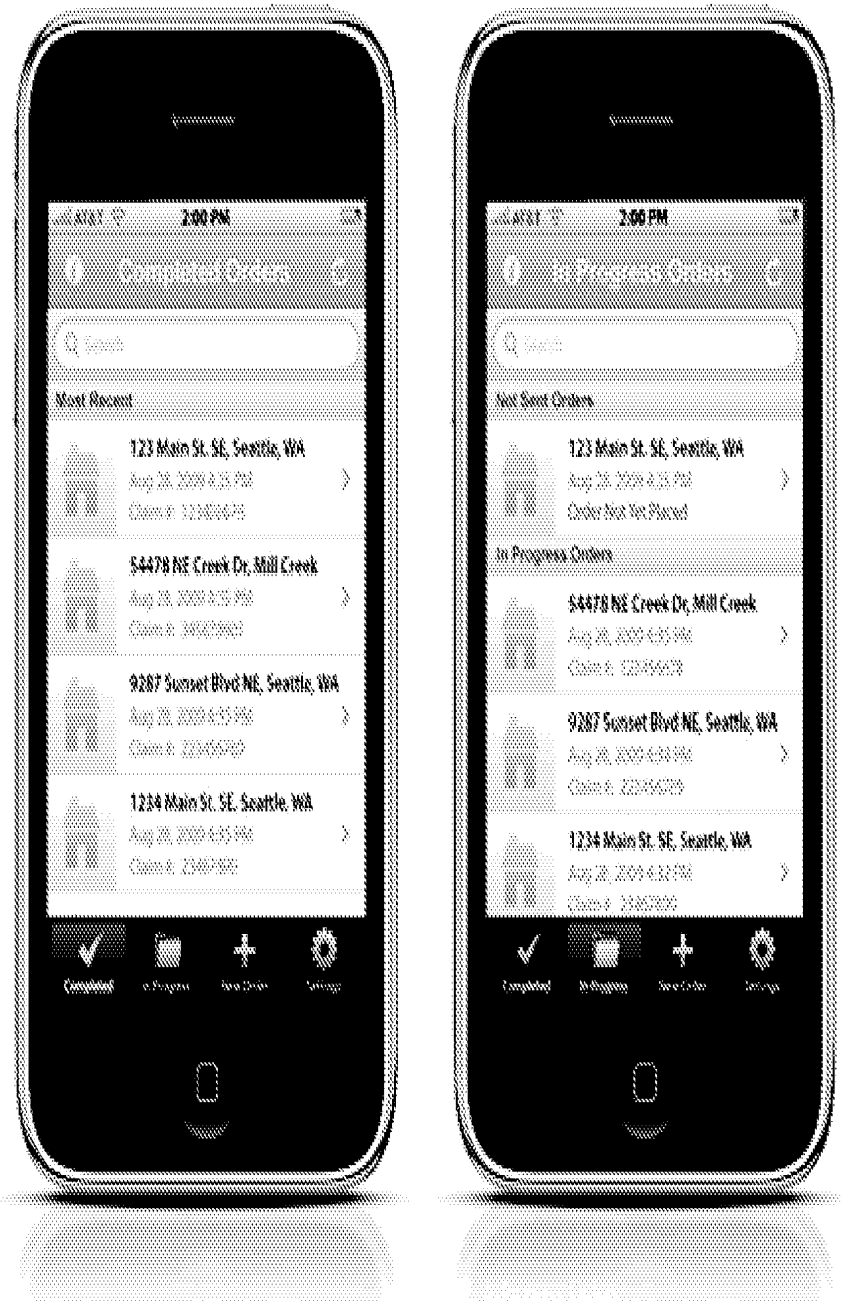
Overview

With the EagleView Mobile application version 2.0 you have the ability to add multiple 'Customer Submitted Images' (up to 6) to your EagleView roof report and store even more images on your local device. You can also edit and annotate images, save them locally on the device and apply those changes to your EagleView report before it is complete.

Photo Management

Photo management and photo editor features can be accessed from the following screens:

- Completed report detail page > View Photo
- In Progress report detail page > View Photo





Report Photos Screen

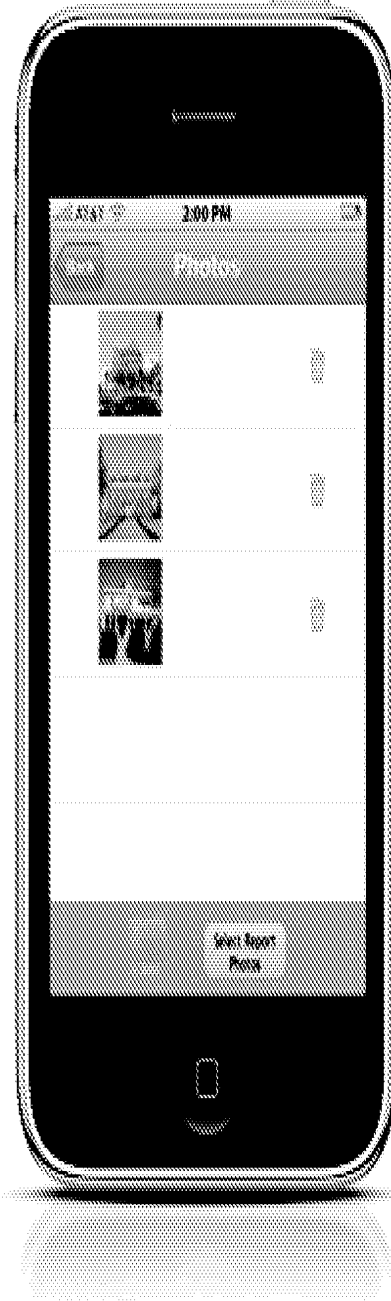
- Lists of all user photos associated with a report images.
- **Does not include report N, S, W, E and Overhead images*

- Click on image – Loads image into image editor.

Edit Photo Screen

**The following features are disabled for Completed Reports. Edit Image functionality is available only for In Progress reports.*

- User can add a photo/image – + Add camera icon
- User can delete an individual photo/image –
Trash can icon
- Select Report Photos button
- Back button – User is returned to previous report detail screen





Select Photos for Report Screens

***Feature only available for In-Progress reports.*

- Select checkbox for an image – Indicates image is to be included in the report in the Customer Submitted Photos Section of the EagleView roof report.
- Uncheck checkbox for an image – Indicates image will not be included in the report.
- Left-hand column numbers indicate the order the images appear in the report.
- Drag and drop images into a new order. Numbers in the left column update automatically. ***** Limit of 6 images can be included in the 'Customer Submitted Image' section of a report.***
- Update button uploads selected photos and will be included in the EagleView roof report.
- Indicators show in-progress (Uploading Photo), success (Successful Upload) and failure (Upload Failure) of uploaded images.
- Back button – returns to the Report Photos Screen

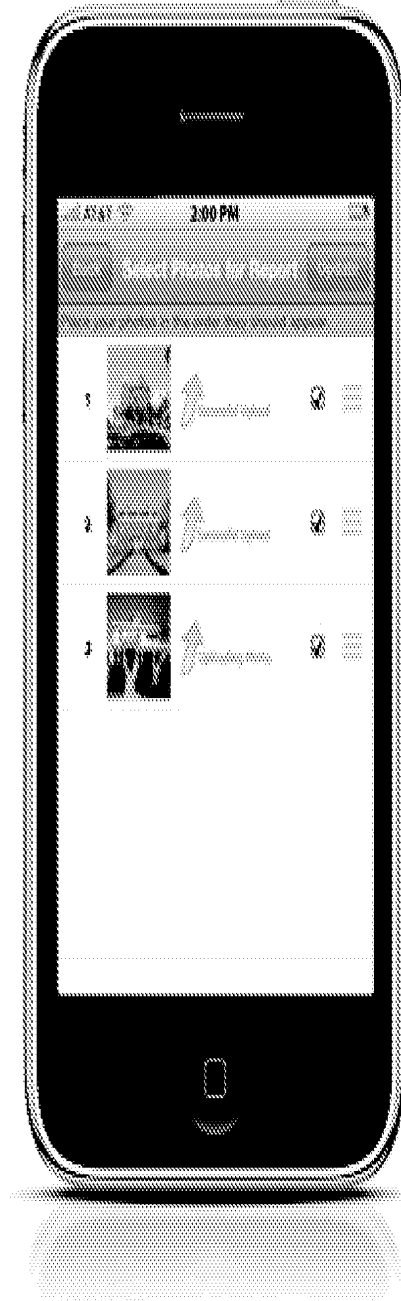




Photo Editing

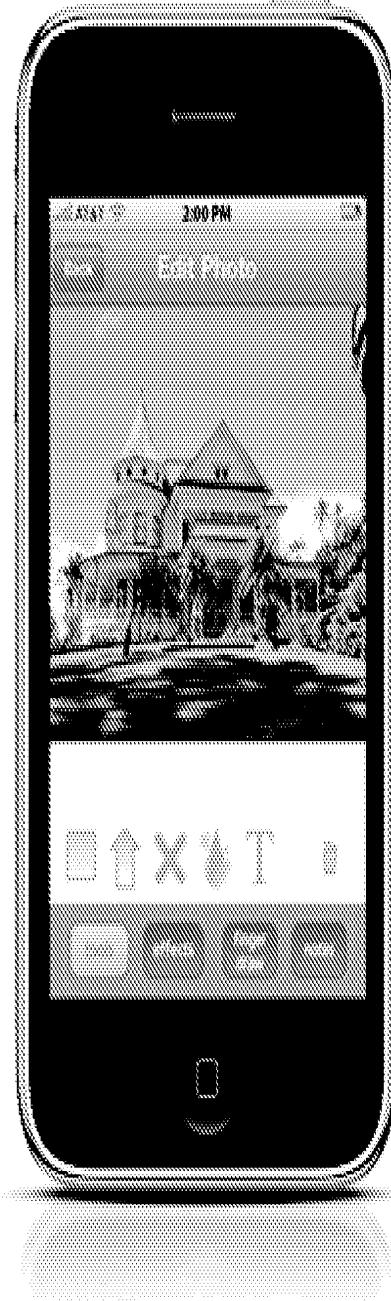
You can annotate a photo with text and selected icons (selection box, arrow, roof damage icon, water damage icon). Adjust effects of the photo with Brightness and Contrast tools. Free form drawing is available with the Finger Draw feature. Add notes to an image (Up to 100 characters) and they will be included along with the image in the EagleView report.

The Photo Editor is accessed when you select an individual image from the **Report Photo Screen**.

Edit Photo screens

- Lower Tab controls which edit function is available (Tools, Effects, Finger Draw, Notes)

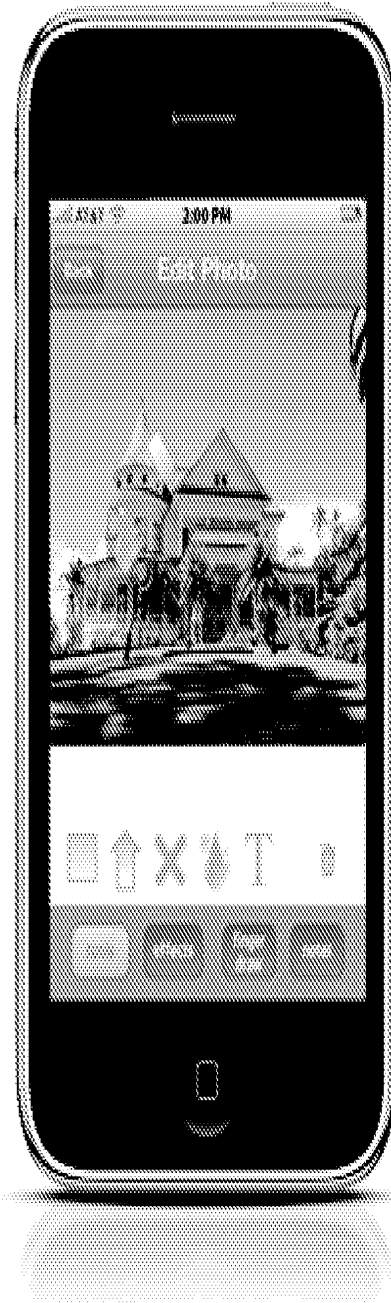
**If you have loaded an image for a completed report the Edit Image functions are disabled.





Annotation Screen

- Ability to edit and annotate an image.
- Changes are saved locally to the device.
- Tools
 - Square icon (opaque box to indicate a selected region)
 - Arrow icon
 - Roof damage (X) icon
 - Water Damage icon
 - Annotation tool (text)
 - Trash can icon will remove last unsaved change from the image.
- All icons and text can be moved, resized and rotated on the image.





Effects Screen

- Brightness slider – Increases and decreases the image brightness.
- Contrast slider – Increases and decreases the image brightness.

Finger Draw Screen

- Allows free form drawing on the image (ex: dark blue arrow).
- Slider control increases or decreases the line width.
- Color picker allows you to select a color (see color picker)
- Eraser icon will remove the last line drawn.

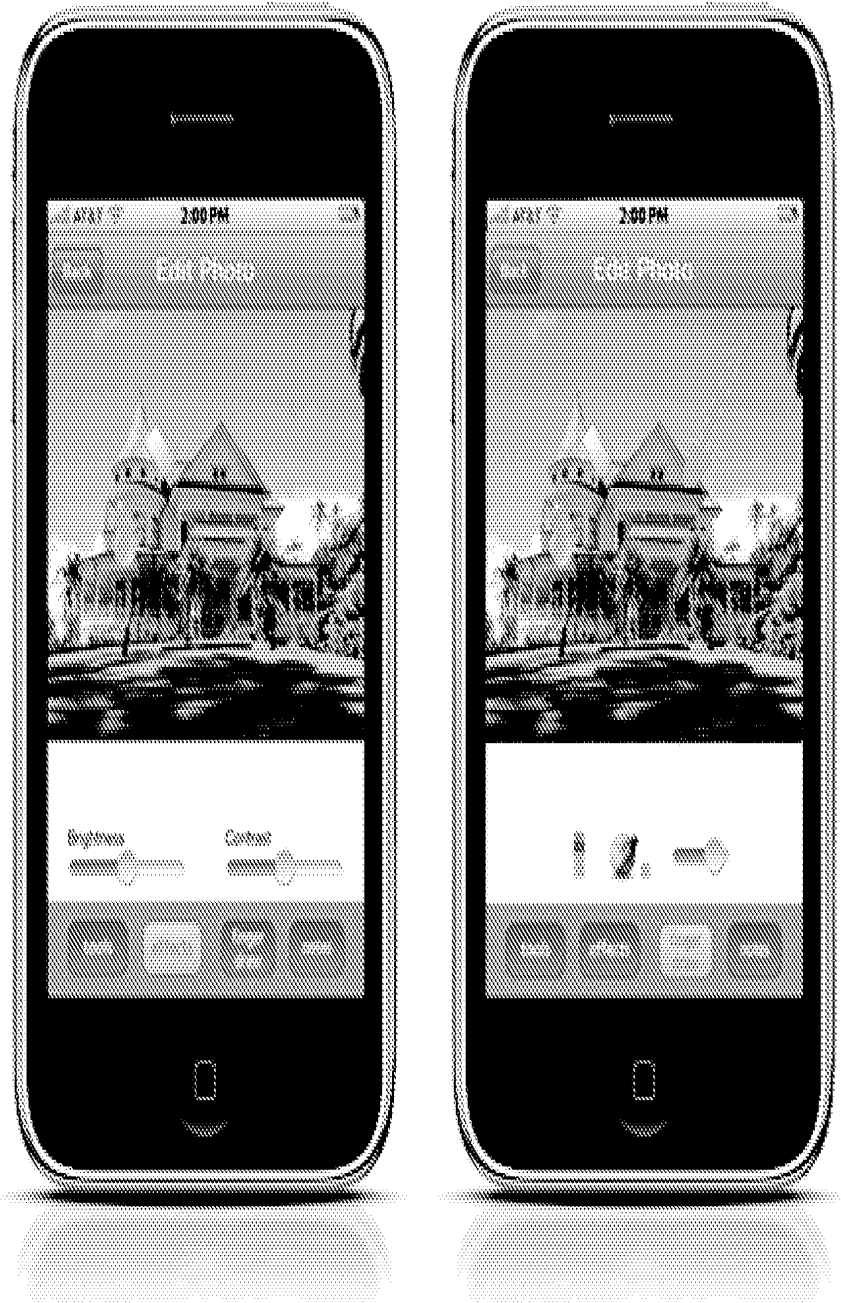




Image Notes

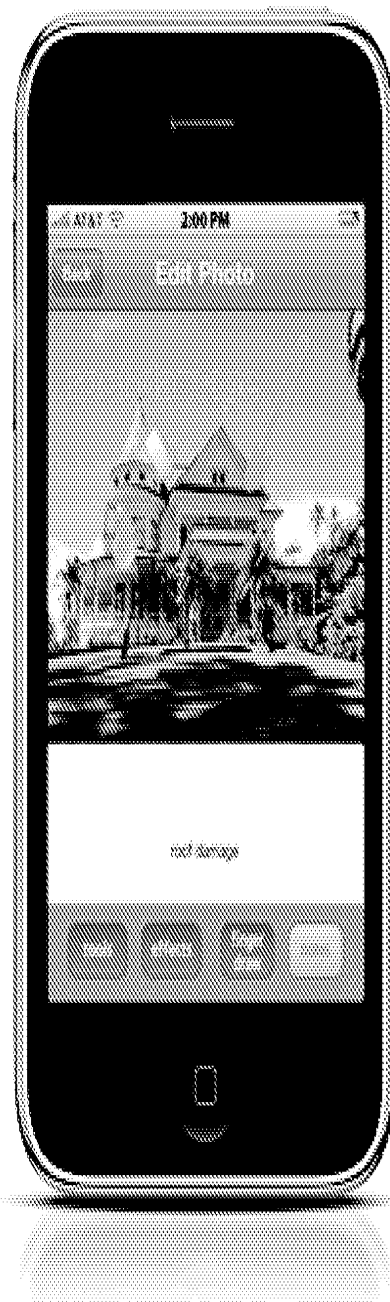
Add image notes screen:

- Image notes are included below each image in the 'Customer Submitted Images' section.
- Tap in notes area to activate notes dialog.
- 100 character limit for image notes.

Getting Help

For assistance with this application:

- Check the EagleView web site at www.eagleview.com
- Contact EagleView Customer Service at 866-659-8439.
- Email us at CustomerService@eagleview.com.



To: dsorocco@dunlapcoddington.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 30589

Nov 28, 2014 05:22:30 AM

Dear PAIR Customer:

DUNLAP CODDINGTON, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 30589 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13424054	CTFR	11/28/2014	6338.157
	892	11/28/2014	6338.157
	1449	11/28/2014	6338.157

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

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**Courtesy Reminder for
Application Serial No: 13/424,054**

Attorney Docket No: 6338.157

Customer Number: 30589

Date of Electronic Notification: 11/28/2014

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

dsorocco@dunlapcoddington.com

To view your correspondence online or update your email addresses, please visit us anytime at <https://portal.uspto.gov/secure/myportal/privatepair>. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Request
for
Continued Examination (RCE)
Transmittal**

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/424,054
Filing Date	03/19/2012
First Named Inventor	Chris T. Thornberry
Art Unit	3684
Examiner Name	Matthew Zimmerman
Attorney Docket Number	6338.157

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

ii. ☐ Other _____

b. ☒ Enclosed

i. ☒ Amendment/Reply

iii. ☐ Information Disclosure Statement (IDS)

ii. ☐ Affidavit(s)/ Declaration(s)

iv. ☒ Other Extension of Time

2. **Miscellaneous**

a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

b. ☐ Other _____

3. **Fees**

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to

a. ☐ Deposit Account No. _____

i. ☒ RCE fee required under 37 CFR 1.17(e)

ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)

iii. ☐ Other _____

b. ☐ Check in the amount of \$ _____ enclosed

c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	<i>Marc Brockhaus</i>	Date	05/27/2015
Name (Print/Type)	Marc A. Brockhaus	Registration No.	40,923

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature	<i>Marc Brockhaus</i>	Date	05/27/2015
Name (Print/Type)	Marc A. Brockhaus		

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronically Transmitted: 05/27/2015

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: 13/424,054 Conf. No. 7006
Inventors: Chris T. Thornberry, Dale R. Thornberry
Filed: Mar. 19, 2012
TC/A.U.: 3684
Examiner: ZIMMERMAN, MATTHEW E.
Title: Method and System for Quick Square Roof Reporting
Docket No.: 6338.157
Customer No.: 30589

Mail Box Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE

The following is being submitted in response to the Office Action dated
November 28, 2014:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **8** of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) One or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems that when executed cause the one or more computer systems to identify a geographic location of a roof; ~~determine contact information of one or more contractors within a region of interest of the geographic location of the roof;~~ determine a footprint and predominant pitch of the roof by analyzing one or more image showing the roof; ~~determine predominant pitch of the roof;~~ and determine an estimated roofing area of the roof based on the predominant pitch and the footprint of the roof; and generate a roof report including at least one image showing the roof and the estimated roofing area of the roof.

2. (Currently Amended) The one or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems of claim 1, that when executed further cause the one or more computer systems to determine contact information of one or more contractors within a region of interest of the geographic location of the roof, and to provide a roof report, wherein the roof report includes one or more ortho images of the roof, one or more oblique images of the roof, the estimated roofing

area and the contact information of one or more contractor within the region of interest of the geographic location of the roof.

3. (Previously Presented) The one or more non-transitory computer readable medium of claim 2, wherein the roof report includes contact information of the customer.

4. (Previously Presented) The one or more non-transitory computer readable medium of claim 1, wherein the one or more non-transitory computer readable medium comprises a first non-transitory computer readable medium of a first host system and a second non-transitory computer readable medium of a second host system.

5. (Previously Presented) The one or more non-transitory computer readable medium of claim 1, wherein identifying the geographic location of the roof further comprises obtaining contact information of a customer.

6. (Previously Presented) The one or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems of claim 1, that when executed further cause the one or more computer systems to receive customer input to validate geographic location of the roof.

7. (Previously Presented) The one or more non-transitory computer readable medium of claim 6, wherein the geographic location includes coordinates and validation of the geographic location includes instructions for receiving customer input to alter one or more coordinates of the geographic location.

8. (Previously Presented) The one or more non-transitory computer readable medium of claim 1, wherein identifying a geographic location of the roof includes identifying one or more edges of the roof in an image.

9. (Previously Presented) The one or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems of claim 1, that when executed further cause the one or more computer systems to identify edges of the roof; determine three-dimensional information of the edges including position, orientation and length using multiple oblique images from multiple cardinal directions; and, determine, automatically, one or more line segments forming a portion of a footprint of the roof utilizing position and orientation of the edges.

10. (Currently Amended) The one or more non-transitory computer readable medium of claim 1, wherein determining the predominant pitch includes determining a plurality of pitch values with each pitch value associated with a portion of the roof, the predominant pitch based on the plurality of pitch values.

11. (Previously Presented) The one or more non-transitory computer readable medium of claim 10, wherein each pitch value is associated with an estimated percentage of roof area to provide an average pitch value.

12. (Previously Presented) The one or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems of claim 1, that when executed further cause the one or more computer systems to provide the roof report to one or more contractors, the contractor located within the region of interest of the geographic location of the roof.

13. (Currently Amended) A system, comprising:

two or more host systems, each host system having one or more non-transitory computer readable medium;

the non-transitory computer readable medium of the first host system storing a set of computer executable instructions that when executed by one or more processors causes the one or more processors to:

identify a geographic location of a roof;

determine contact information of at least one contractor within a region of interest about the geographic location of the roof;

the non-transitory computer readable medium of the second host system storing a set of computer executable instructions that when executed by one or more processors causes the one or more processors to:

determine a footprint and predominant pitch of the roof by analyzing one or more image showing the roof;

~~determine a predominant pitch;~~

determine an estimated roofing area based on the predominant pitch and the footprint of the roof; and,

provide a roof report, wherein the roof report includes one or more ortho images of the roof, one or more oblique images of the roof, the estimated roofing area and contact information of one or more contractors within the region of interest.

14. (Currently Amended) A roofing estimate method, comprising:

receiving, by at least one computer processor from a user via a user terminal, a geographic location of a roof;

providing to the user, with the computer processor, imagery of the roof based on the geographic location of the roof;

determining and providing, with the computer processor, an estimated roofing area based at least on a predominant pitch and a footprint of the roof by analyzing one or more image showing the roof, the footprint of the roof determined at least in part using at least one image of the roof; and

providing, with the computer processor, contact information of one or more roofing contractors within a region of interest of the geographic location of the roof.

15. (Currently Amended) The roofing estimate method of claim 14, further comprising:

providing, with the computer processor, a roof report, wherein the roof report includes one or more ortho images of the roof, ~~one or more oblique images of the roof~~, the estimated roofing area and the contact information of one or more contractor within the region of interest of the geographic location of the roof.

16. (Previously Presented) The roofing estimate method of claim 14, wherein the footprint of the roof is determined at least in part with oblique images of the roof.

17. (Previously Presented) The roofing estimate method of claim 14, wherein the predominant pitch value of the roof based at least in part on the footprint of the roof as a boundary of the roof.

18. (Previously Presented) The roofing estimate method of claim 14, wherein the predominant pitch is based on a weighted average of individual pitch factors for two or more portions of the roof.

REMARKS

This is intended to be a complete response to the Office Action mailed November 28, 2014, in which claims 1- 18 were rejected. Claims 1-18 are pending, with claims 1, 13, and 14 being independent. Claims 1, 2, 10, 13, 14, and 15 have been amended. No new subject matter has been added.

Based on the preceding amendments and the following remarks, Applicants respectfully request the withdrawal of the rejections and the issuance of a timely notice of allowance for claims 1-18.

Claim Amendments

Applicants respectfully submit that the amendments to claims 1, 13, and 14 do not introduce any new matter. Written description and enablement support for the claims can be found, for example, in original claim 1 and paragraphs [0073] - [0076] of the above-referenced patent application as originally filed. Therefore, no new matter is added by the amendments.

Claim Rejection – 35 U.S.C. § 101

Claims 1-18 were rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter. The Office Action stated that the claims as a whole, considering all claim elements both individually and in combination, do not amount to significantly more than an abstract idea. The Office Action asserted that the claims are directed “to the abstract idea of estimating areas.”

Further, the Office Action stated that the additional elements in the claims other than the abstract idea amount to no more than: (i) mere instructions to implement the idea on a computer, and/or (ii) recitation of generic computer structure that serves to perform generic computer functions that are well-understood, routine, and conventional activities previously known to the pertinent industry. The Office Action further stated that, viewed as a whole, the additional claim elements do not provide meaningful limitations to transform the abstract idea into a patent eligible application of the abstract idea such that the claims amount to significantly more than the abstract idea itself.

Applicant respectfully asserts that claims 1-18 provide novel and non-obvious functions specific to the field of computer technologies and are patent eligible under 35 U.S.C. §101. Although the Applicant respectfully disagrees with the rejections of claims 1-18, such claims have been amended to expedite the prosecution and more clearly conform with the eligibility requirements under 35 U.S.C. § 101 in light of the Supreme Court's *Alice Corp.* opinion. Since this Office Action was mailed in November 2014, the USPTO has issued Interim Guidance on Patent Subject Matter Eligibility (hereinafter "Interim Guidance") "which supplements the June 25, 2014, Preliminary Examination Instructions in view of the Supreme Court decision in *Alice Corp.* (June 2014 Preliminary Instructions) and supersedes the March 4, 2014, Procedure for Subject Matter Eligibility Analysis of Claims Reciting Or Involving Laws of Nature/Natural Principles, Natural Phenomena, And/Or Natural Products (March 2014 Procedure) issued in view of the Supreme Court decisions in *Myriad* and *Mayo*."

See Federal Register Vol. 79, No. 241 at 74619. The USPTO is also seeking public comment on the Interim Guidance and has set a deadline of March 16, 2015 for receiving comments¹. Interestingly enough, a variety of intellectual property organizations and companies have submitted comments including the AIPLA, the American Bar Association, IBM, Microsoft and Google trying to interpret the Interim Guidance and pointing out where the Interim Guidance can be improved to assist the Examiners and Applicants in applying the law with respect to eligibility in a consistent manner. As will be discussed in detail below, Applicant respectfully submits that claims 1-18 are patent-eligible under both the guidance issued by the Supreme Court in *Alice Corp. Pty. Ltd. v. CLS Bank Int'l*, 134 S. Ct. 2347 (2014) and the Interim Guidance issued December 16, 2014 by the United States Patent and Trademark Office (hereinafter referred to as “the Office”).

Claims 1-20 are Patent Eligible under 35 U.S.C. §101

35 U.S.C. § 101 provides that “whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.” As noted by the Office in its Interim Guidance, the Supreme Court has long held that §101 excludes certain subject matter from patent eligibility including abstract ideas, laws of Nature/Natural

¹ The comments are available on the USPTO’s website at <http://www.uspto.gov/patent/laws-and-regulations/comments-public/comments-2014-interim-guidance-patent-subject-matter.html>.

Principles and Natural Phenomena. These are referred to in the Interim Guidance as “Judicial Exceptions.”

In *Alice*, the Supreme Court noted that an abstract idea itself is not eligible for patent protection since it is considered a principle, an original cause, a motive. *Alice*, 573 U.S. at 2355 (citing *Gottschalk v. Benson*, 409 U.S. 63, 67 (1972) and *Le Roy v. Tatham*, 55 U.S. 156 (1852)). However, as the Supreme Court recognized, every invention can be characterized at some level as an abstract idea. *Id.* at 2354. As described in *Alice*, step 1 of the *Mayo* test is not asking the Examiner to simply identify an abstract idea, rather it asks the Examiner to “determine whether the claims at issue are directed to one of those patent-ineligible concepts.” *Id.* at 2355 (emphasis added). If the question were simply asking “What is the abstract idea?”, every single patent claim would satisfy *Mayo* step 1 as being directed to an abstract idea – which is why the Supreme Court stated “[a]n invention is not rendered ineligible for patent simply because it involves an abstract concept. Applications of such concepts ‘to a new and useful end,’ remain eligible for patent protection.” and cautioned that “we tread carefully in construing this exclusionary principle lest it swallow all of patent law.” *Id.* at 2354.

Likewise, the Federal Circuit has stated that it would “not presume to define ‘abstract’ beyond the recognition that this disqualifying characteristic should exhibit itself so manifestly as to override the broad statutory categories of eligible subject matter and the statutory context that directs primary attention on the patentability criteria of the rest of the Patent Act.” (*Research Corp. Techs. v.*

Microsoft Corp., 627 F.3d 859, 868; 97 U.S.P.Q.2D (BNA) 1274, Fed. Cir. 2010, finding the patent claims at issue not to be invalid under §101 since the invention claimed “presents functional and palpable applications” in its field.)

This is also why the Interim Guidance states “[c]ourts tread carefully in scrutinizing such claims because at some level all inventions embody, use, reflect, rest upon or apply a law of nature, natural phenomenon, or abstract idea.” Interim Guidance at 74622, first column. The Interim Guidance mandates that the Examiner “determine whether the claim as a whole is directed to a judicial exception.” See Interim Guidance at 74622, first column. The Interim Guidance clearly acknowledges that claims directed to a particular application of a judicial exception are patent - eligible, i.e., “[a]s an example, a robotic arm assembly having a control system that operates using certain mathematical relationships is clearly not an attempt to tie up use of the mathematical relationships and would not require a full analysis to determine eligibility.” See Interim Guidance at 74625.

Additionally, the Federal Circuit has stated that the,

“Supreme Court has already made abundantly clear that inventions incorporating and relying upon even ‘a well known mathematical equation’ do not lose eligibility because ‘several steps of the process [use that] mathematical equation.’ *Diehr*, 450 U.S. at 185. Indeed, the Supreme Court counseled: ‘In determining the eligibility of respondents’ claimed process for patent protection under section 101, their claims must be considered as a whole. It is inappropriate to dissect the claims into old and new elements and then to ignore the presence of the old elements in the analysis. This is particularly true in a process claim because a new combination of steps may be patentable even though all the constituents of the combination were well known and in common use before the combination was made.’

Research Corp. Techs. v. Microsoft Corp., 627 F.3d 859, 868; 97 U.S.P.Q.2D (BNA) 1274, Fed. Cir. 2010, citing *Diamond v. Diehr*, 450 U.S. 175, 188, 101 S. Ct. 1048, 1058, 209 U.S.P.Q. (BNA) 1 (U.S. 1981).

In analyzing the rejection, the Interim Guidance directs the Examiner to “identify the exception by referring to where it is recited (i.e., set forth or described) in the claim and explain why it is considered an exception. [Emphasis Added] See Interim Guidance at 74624, third column. Then, if the claim includes additional elements, identify the elements in the rejection and explain why they do not add significantly more to the exception.” [Emphasis Added.] See Interim Guidance at 74624, third column. In other words, the Interim Guidance is directing Examiners to analyze all of the limitations in the claims and to provide a *prima facie* case of ineligibility for any §101 rejections.

In the present application, Applicant respectfully submits that a *prima facie* case of ineligibility has not been presented for Claims 1-18. In formulating the rejection, the Office Action contends that “[t]he claims is/are directed to the abstract idea of estimating area.” But, “estimating area” is not claim language used in claims 1-18, and the Office Action does not explain why “estimating area” is a judicial exception. The Office Action also does not specifically identify any additional elements in claims 1-18, or explain why the language in all 18 claims does not add significantly more to the exception. In fact, the Office Action addresses all of the pending claims by stating that such are “no more than: (i) mere instructions to implement the idea on a computer, and/or (ii) recitation of generic computer structure that serves to perform generic computer functions

that are well-understood, routine, and conventional activities previously known to the pertinent industry” (see pages 2-3 of the Office Action) without providing any evidentiary support for these findings². Under the Administrative Procedures Act and controlling federal case law, examiners must provide “substantial evidence” in support of all rejections. *In re Lee*, 61 USPQ 2d 1430 (Fed. Cir. 2002); *Dickinson v. Zurko*, 527 U.S. 150 (1999). Conjecture, conclusory statements, or personal opinions cannot meet this requirement. See Administrative Procedure Act, 5 U.S.C. 500 *et seq.*; *In re Gartside*, 203 F.3d 1305, 1315 (Fed. Cir. 2000); *In re Dembiczak*, 175 F.3d 994, 999-1000 (Fed. Cir. 1999) (broad conclusory statements about the teaching of references are not “substantial evidence”).

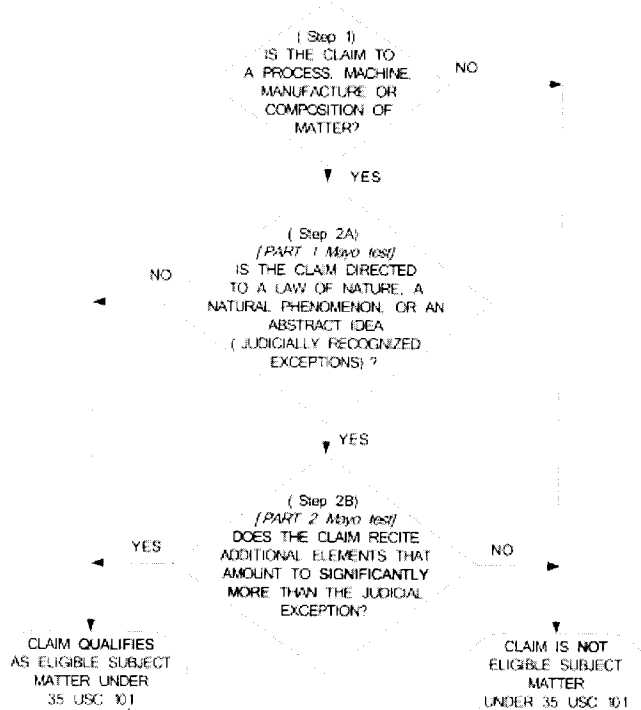
Even though a *prima facie* case of ineligibility has not been made, claims 1-18, as amended, will be compared to the Office’s Interim Guidance to demonstrate why such claims are patent-eligible.

The Office’s Interim Guidance sets forth a chart summarizing its Subject Matter Eligibility Test for Products and Processes. The Office’s chart is set forth below for the Examiner’s convenience.

² This statement is not understood because the “Examiner agrees that the prior art of record fails to teach ‘predominant pitch’” which is recited in all 18 claims. See Page 4, Paragraph 9 of the Office Action.

SUBJECT MATTER ELIGIBILITY TEST FOR PRODUCTS AND PROCESSES

*PRIOR TO EVALUATING A CLAIM FOR PATENTABILITY, ESTABLISH THE
BROADEST REASONABLE INTERPRETATION OF THE CLAIM.
ANALYZE THE CLAIM AS A WHOLE WHEN EVALUATING FOR PATENTABILITY.*



IN ACCORDANCE WITH COMPACT PROSECUTION, ALONG WITH DETERMINING ELIGIBILITY, ALL CLAIMS ARE TO BE FULLY EXAMINED UNDER EACH OF THE OTHER PATENTABILITY REQUIREMENTS: 35 USC §§ 102, 103, 112, and 101 (UTILITY, INVENTORSHIP, DOUBLE PATENTING) AND NON-STATUTORY DOUBLE PATENTING.

Notable changes from prior guidance:

- All claims (product and process) with a judicial exception (any type) are subject to the same steps.
- Claims including a nature-based product are analyzed in Step 2A to identify whether the claim is directed to (recites) a "product of nature" exception. This analysis compares the nature-based product in the claim to its naturally occurring counterpart to identify markedly different characteristics based on structure, function, and/or properties. The analysis proceeds to Step 2B only when the claim is directed to an exception (when no markedly different characteristics are shown).

Step 1 of the chart asks whether the claim is directed to a process, machine, manufacture or composition of matter. In this case, claims 1-12 set forth "one or more non-transitory medium" which qualifies as a "manufacture," claim 13 sets forth a "system" which qualifies as a machine, and claims 14-18 sets forth a "roofing estimate method" which qualifies as a process. Thus, claims 1-18 are all patent eligible under the first box of the subject matter eligibility test.

The next step, i.e. Step 2A, asks whether the claim is “directed to” a law of nature, a natural phenomenon, or an abstract idea. In interpreting Step 2A, the Office has provided the following guidelines:

A claim is directed to a judicial exception when a law of nature, a natural phenomenon, or an abstract idea is recited (i.e., set forth or described) in the claim. Such a claim requires closer scrutiny for eligibility because of the risk that it will “tie up” the excepted subject matter and pre-empt others from using the law of nature, natural phenomenon, or abstract idea. Courts tread carefully in scrutinizing such claims because at some level all inventions embody, use, reflect, rest upon, or apply a law of nature, natural phenomenon, or abstract idea. To properly interpret the claim, it is important to understand what the applicant has invented and is seeking to patent. For claims that may recite a judicial exception, but are directed to inventions that clearly do not seek to tie up the judicial exception, see Section I.B.3. regarding a streamlined eligibility analysis. [Emphasis Added] See Interim Guidance at 74622, First Column.

In this case, claims 1-12 specifies “determining an estimated roofing area.” Even assuming that “determining an estimated roofing area” falls within one of the judicial exceptions, it is believed that claim 1 clearly does not seek to tie up the judicial exception and is therefore patent eligible under the “streamlined eligibility analysis.” In particular, claims 1-12, as amended, specifically “determine[s] a footprint and predominant pitch of the roof by analyzing one or more image showing the roof” and the “estimated roofing area” being “based on the predominant pitch and the footprint of the roof.” These are meaningful limitations that do not pre-empt all forms of “estimating area” or even “determining an estimated roof area.” As in the Supreme Court *Diehr*³ case, Applicant does not “seek to patent a mathematical formula” and does not “seek to pre-empt the use

³ *Diamond v. Diehr*, 450 U.S. 175, 187, 101 S. Ct. 1048, 1057, 209 U.S.P.Q. (BNA) 1 (U.S. 1981).

of that equation.” From the language of claim 1, it is apparent that the claimed invention is not directed to all forms of estimating area, but rather is tailored to a specific patent eligible application involving the determination of “an estimated roofing area” using a specified methodology, i.e., “based on the predominant pitch and the footprint of the roof” determined by “analyzing one or more image showing the roof.”

Claims 1-12 do not preempt and disproportionately tie up the use of any abstract idea. To assist the Examiner in addressing the Applicant's response, the Examiner's attention is directed to the comments to the Interim Guidance provided by the AIPLA, which point out:

The Guidance does not address how applicants may respond to such rejections nor how examiners are to evaluate such rebuttal arguments. Applicants should be able to rebut a rejection by submitting prior art that describes another use of the abstract idea or law of nature evidencing that the claimed invention does not risk “disproportionately tying up” the use of the underlying ideas. [footnote citing to *Alice*, 134 S. Ct. at 2354-2355, quoting *Mayo*, 132 S. Ct. at 1294]. Examiners should be instructed that if the applicant does so, the 101 rejection should be withdrawn. See page 13 of 14.

In this case, the Examiner's attention is respectfully directed to the Thornberry reference, i.e., U.S. Patent Publication No. 20100296693, of record, which shows and discusses measuring the area of a roof in Figures 5E-5F, and Paragraphs [0002], and [0103] – [0112]. For example, Paragraph [0002] states:

[0002] Roof measuring, for example, dimension, length and areas has been done for many years, such as in connection with for estimating and bidding roofing jobs. Also, for many years, companies and products have offered such estimation services and reporting software reports using aerial imagery on which roof line outlines are traced, dimensions and areas are automatically based on those tracings, and vertical elevations (via pitch or otherwise) are included in mathematical models.

When one reviews the language of claims 1-12 as a whole as instructed by the Interim Guidance and the prior art to determine whether the claimed invention preempts and disproportionately ties up the use of the underlying ideas, it is apparent that claims 1-12 do not seek to tie up any judicial exception such that others cannot practice it. Claims 13-18 contain similar limitations and are eligible for the same reasons as claims 1-12. Under the Office's Interim Guidance, claims 1-18 do not need to proceed through a full analysis as their eligibility is self-evident. Therefore, Applicant respectfully requests withdrawal of the rejection of claims 1-18.

**The Claimed Invention Amounts to Significantly more than a Judicial
Exception**

As discussed above, Applicant respectfully submits that claims 1-18 provide novel and non-obvious functions specific to the field of computer technologies, do not seek to tie up any judicial exception and are thus eligible for streamlined analysis. However, assuming for the sake of argument, that claims 1-18 were considered to be directed to a judicial exception, Applicant respectfully submits that claims 1-18 include significantly more than the judicial exception and are therefore patent eligible.

As outlined in the Interim Guidance, if a claim is directed to a judicial exception, the Examiner should proceed to Step 2B of the analysis. Step 2B asks whether any element, or combination of elements, in the claim is sufficient to ensure that the claim amounts to significantly more than the judicial exception.

To assist Examiners in interpreting step 2B, the Office has provided the following guidance:

A claim directed to a judicial exception must be analyzed to determine whether the elements of the claim, considered both individually and as an ordered combination, are sufficient to ensure that the claim as a whole amounts to significantly more than the exception itself – this has been termed a search for an “inventive concept.” To be patent-eligible, a claim that is directed to a judicial exception must include additional features to ensure that the claim describes a process or product that applies the exception in a meaningful way, such that it is more than a drafting effort designed to monopolize the exception. It is important to consider the claim as whole. Individual elements viewed on their own may not appear to add significantly more to the claim, but when combined may amount to significantly more than the exception. Every claim must be examined individually, based on the particular elements recited therein, and should not be judged to automatically stand or fall with similar claims in an application. [Emphasis Added] Interim Guidance at 74624.

The Office provided further guidance as to what may be enough to qualify as “significantly more” using limitations identified by the Supreme Court which includes:

Improvements to another technology or technical field;

Adding a specific limitation other than what is well-understood, routine and conventional in the field, or adding unconventional steps that confine the claim to a particular useful application. See Interim Guidance at 74624, middle column.

Applicant respectfully submits that claims 1-18 all recite the determination of an estimated roofing area based on the predominant pitch and the footprint of the roof. Thus, claims 1-18 include improvements to technology for a particular application, i.e., determining an estimated roofing area, and not simply to “estimating area.” Further, as acknowledged in the Office Action, “[t]he Examiner agrees that the prior art of record fails to teach “predominant pitch” as explained

in paragraphs [0076] to [0078] and Fig. 7 of the applicant's specification." See Page 4, Paragraph 9 of the Office Action. The "determination of an estimated roofing area based on the predominant pitch and the footprint of the roof" provides an unconventional step that confines claims 1-18 to a particular useful application and renders claims 1-18 patent eligible under the Office's Interim Guidance.

Additionally, the Interim Guidance states that limitations that may be enough to qualify as "significantly more" when recited in a claim with a judicial exception include effecting a transformation or reduction of a particular article to a different state or thing. Interim Guidance at 74624. Transformation may be demonstrated through transformation of data. For example, in *PNC Bank v. Secure Access*, (CBM2014-00100, Decision - Institution of Covered Business Method Patent Review, Entered Sep. 9, 2014, Paper 10 at p.24), the PTAB panel found the claim at issue met the transformation prong of the machine-or-transformation test because "[t]he claim language requires '*transforming*' one thing ('received data') 'to create' something else ('formatted data') and further recites a particular manner of transforming ('by inserting an authenticity key')." Likewise, the "determination of an estimated roofing area based on the predominant pitch and the footprint of the roof" provides a transformation that qualifies claims 1-18 as significantly more than a judicial exception.

Therefore, Applicant respectfully submits that claims 1-18 are patent-eligible under 35 U.S.C. § 101.

Claim Rejection – 35 U.S.C. § 102(b)

Claims 14-18 were rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Thornberry (US 2010/0296693). In formulating the rejection, the Office Action contends that Thornberry teaches receiving [data] (see Thornberry Fig. 4A-B); and providing [data] (see Thornberry Fig. 4A-B).

The Office Action noted that the data provided and data received was “non-functional descriptive material” because it does not functionally affect the way in which the receiving and providing are performed. Although the Applicant respectfully disagrees with the present rejection of claims 14-18, claims 14-18 have been amended to specify “determining and providing, with the computer processor, an estimated roofing area based at least on a predominant pitch and a footprint of the roof.” These limitations set forth a novel function specific to the field of computer technologies which is not described in the Thornberry reference. Thus, it is respectfully submitted that the present rejection under 35 U.S.C. §102 has been overcome.

In light of the foregoing, reconsideration and withdrawal of the rejection of claims 14-18 under 35 U.S.C. § 102 is respectfully requested.

CONCLUSION

The foregoing is intended to be a complete response to the Office Action dated November 28, 2014. Applicants respectfully request reconsideration and withdrawal of the rejections set forth in the Office Action and a timely notice of allowance for all of the pending claims 1-18. Should the Examiner have any

questions or comments regarding the foregoing, or any other matter, the undersigned would welcome a telephonic interview with the Examiner.

Respectfully Submitted,

A handwritten signature in cursive script, reading "Marc A. Brockhaus". The signature is written in dark ink and is positioned above a horizontal line.

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Attorney for Applicants

Electronic Patent Application Fee Transmittal

Application Number:	13424054			
Filing Date:	19-Mar-2012			
Title of Invention:	Method and System for Quick Square Roof Reporting			
First Named Inventor/Applicant Name:	Chris T. Thornberry			
Filer:	Marc Alan Brockhaus/Lori Radford			
Attorney Docket Number:	6338.157			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	2253	1	700	700
Miscellaneous:				
Request for Continued Examination	2801	1	600	600
Total in USD (\$)				1300

Electronic Acknowledgement Receipt

EFS ID:	22463746
Application Number:	13424054
International Application Number:	
Confirmation Number:	7006
Title of Invention:	Method and System for Quick Square Roof Reporting
First Named Inventor/Applicant Name:	Chris T. Thornberry
Customer Number:	30589
Filer:	Marc Alan Brockhaus/Lori Radford
Filer Authorized By:	Marc Alan Brockhaus
Attorney Docket Number:	6338.157
Receipt Date:	27-MAY-2015
Filing Date:	19-MAR-2012
Time Stamp:	17:41:58
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1300
RAM confirmation Number	4584
Deposit Account	
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	6338157_Transmittal05272015.pdf	67103	no	1
			91d84911e235f8570d0dd37ea7694c4e2e5ae2bb		
Warnings:					
Information:					
2	Extension of Time	6338157_Extension05272015.pdf	62798	no	1
			7e8297e356a63b756886c863c65ede51d95cc02f		
Warnings:					
Information:					
3	Request for Continued Examination (RCE)	6338157_RCE.pdf	81273	no	1
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Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
4		6338157_Response05272015.pdf	842246	yes	22
			c8fbc9e2d77270de905fc9d3f1de0b35092ffc3db		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Response After Final Action		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	22	
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32232	no	2
			930d77a84d3f47f9953501bd1e22ef96d651ea16		
Warnings:					
Information:					
Total Files Size (in bytes):			1085652		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

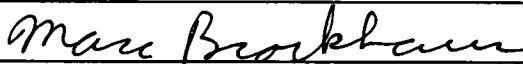
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	13/424,054
	Filing Date	03/19/2012
	First Named Inventor	Chris T. Thornberry
	Art Unit	3684
	Examiner Name	Matthew Zimmerman
Total Number of Pages in This Submission	Attorney Docket Number	6338.157

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☒ Amendment/Reply ☒ After Final ☐ Affidavits/declaration(s) ☒ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): See Remarks
Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); 2. SB22 Extension of Time (1 pg); 3. SB30 Request for Continued Exam (1 pg); 4. Response (22 pgs).		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature			
Printed name	Marc A. Brockhaus		
Date	05/27/2015	Reg. No.	40,923

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Marc A. Brockhaus	Date	05/27/2015

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional)

6338.157

Application Number
13/424,054Filed
03/19/2012For
Chris T. ThornberryArt Unit
3684Examiner
Matthew Zimmerman

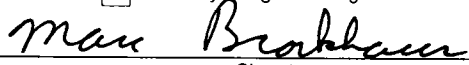
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____
☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ 700.00
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____

☒ Applicant asserts small entity status. See 37 CFR 1.27.☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☐ The Director has already been authorized to charge fees in this application to a Deposit Account.☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number _____☒ Payment made via EFS-Web.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant.☒ attorney or agent of record. Registration number **40,923**☐ attorney or agent acting under 37 CFR 1.34. Registration number _____
Signature**05/27/2015**
Date**Marc A. Brockhaus**
Typed or printed name**405-607-8600**
Telephone Number**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/424,054	Filing Date 03/19/2012	☐ To be Mailed
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 ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	05/27/2015	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE						0	

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

 LIE
 /JUDY SWAYNE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30589 7590 07/08/2015
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

EXAMINER

ZIMMERMAN, MATTHEW E

ART UNIT

PAPER NUMBER

3684

DATE MAILED: 07/08/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/424,054

03/19/2012

Chris T. Thornberry

6338.157

7006

TITLE OF INVENTION: Method and System for Quick Square Roof Reporting

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	10/08/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

30589 7590 07/08/2015
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/424,054	03/19/2012	Chris T. Thornberry	6338.157	7006

TITLE OF INVENTION: Method and System for Quick Square Roof Reporting

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	10/08/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
ZIMMERMAN, MATTHEW E	3684	705-026100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____ (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____ 3 _____
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/424,054	03/19/2012	Chris T. Thornberry	6338.157	7006

30589 7590 07/08/2015
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

EXAMINER

ZIMMERMAN, MATTHEW E

ART UNIT	PAPER NUMBER
----------	--------------

3684

DATE MAILED: 07/08/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/424,054	Applicant(s) THORNBERRY ET AL.	
	Examiner MATTHEW ZIMMERMAN	Art Unit 3684	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/27/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-18. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. ☒ Notice of References Cited (PTO-892) | 5. ☒ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/MATTHEW ZIMMERMAN/
Primary Examiner, Art Unit 3684

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The claims have been amended in accordance with an interview with the attorney of record as follows:

1. (Currently Amended) One or more non-transitory computer readable medium storing a set of computer executable instructions for running on one or more computer systems that when executed cause the one or more computer systems to: identify a geographic location of a roof; determine a footprint and predominant pitch of the roof by analyzing one or more image showing the roof; ~~and~~ determine an estimated roofing area of the roof based on the predominant pitch and the footprint of the roof; and generate a roof report for determination of an amount of materials needed for a construction project, wherein the roof report includes ~~including~~ at least one image showing the roof and the estimated roofing area of the roof.

13. (Currently Amended) A system, comprising:

two or more host systems, each host system having one or more non-transitory computer readable medium;

the non-transitory computer readable medium of the first host system storing a set of computer executable instructions that when executed by one or more processors causes the one or more processors to:

identify a geographic location of a roof;

determine contact information of at least one contractor within a region of interest about the geographic location of the roof;

the non-transitory computer readable medium of the second host system storing a set of computer executable instructions that when executed by one or more processors causes the one or more processors to:

determine a footprint and predominant pitch of the roof by analyzing one or more image showing the roof;

determine an estimated roofing area based on the predominant pitch and the footprint of the roof; and,

generate provide a roof report for determination of an amount of materials needed for a construction project, wherein the roof report includes one or more ortho images of the roof, one or more oblique images of the roof, the estimated roofing area and contact information of one or more contractors within the region of interest.

14. (Currently Amended) A roofing estimate method, comprising:

receiving, by at least one computer processor from a user via a user terminal, a geographic location of a roof;

providing to the user, with the computer processor, imagery of the roof based on the geographic location of the roof;

determining and providing, with the computer processor, an estimated roofing area based at least on a predominant pitch and a footprint of the roof by analyzing one or more image showing the roof, the footprint of the roof determined at least in part using at least one image of the roof; and

generating, with the computer processor, a roof report for determination of an amount of materials needed for a construction project, wherein the roof report includes at least one image showing the roof and the estimated roofing area of the roof ~~providing, with the computer processor, contact information of one or more roofing contractors within a region of interest of the geographic location of the roof.~~

15. (Currently Amended) The roofing estimate method of claim 14, ~~further comprising:~~

wherein the roof report further includes ~~providing, with the computer processor, a roof report, wherein the roof report includes one or more or the images of the roof, the estimated roofing area and the contact information of one or more contractor within a~~ the region of interest of the geographic location of the roof.

Reasons for Allowance

In the present application, claims 1-18 are allowed. The following is the Examiner's statement of reasons for allowance:

The prior art of record neither alone nor in combination anticipates nor renders obvious the present invention. The allowable features of claim 1: determine an estimated roofing area of the roof based on the predominant pitch and the footprint of the roof. The allowable features of claims 13 and 14 are the same as claim 1 as they contain the similar allowable claim language.

The most related prior art patent of record is Thornberry (US 20100296693) which teaches determining pitch of a roof and the most related non-patent literature of record is Reference U (see PTO-892) which teaches determining pitch of a roof. However, Thornberry and Reference U neither teach nor render obvious: determine an estimated roofing area of the roof based on the predominant pitch and the footprint of the roof. The allowable features of claims 13 and 14 are the same as claim 1 as they contain the similar allowable claim language.

For these reasons, the Examiner asserts that the claims are allowable because the prior art does not anticipate them or render them obvious to a person of ordinary skill in the art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW ZIMMERMAN whose telephone number is (571)270-5278. The examiner can normally be reached on Mon-Fri 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason B. Dunham can be reached on (571) 272-8109. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MATTHEW ZIMMERMAN/
Primary Examiner, Art Unit 3684

<i>Examiner-Initiated Interview Summary</i>	Application No. 13/424,054	Applicant(s) THORNBERRY ET AL.	
	Examiner MATTHEW ZIMMERMAN	Art Unit 3684	

All participants (applicant, applicant's representative, PTO personnel):

(1) MATTHEW ZIMMERMAN. (3) ____.

(2) MARC BROCKHAUS. (4) ____.

Date of Interview: 23 June 2015.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☒ 101 ☐ 112 ☐ 102 ☐ 103 ☐ Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: ALL.

Identification of prior art discussed: N/A.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The Examiner proposed an amendment to place the application in condition for allowance. After some deliberation, the attorney of record agreed to said amendment which is reflected in the notice of allowability. This concluded the interview.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/MATTHEW ZIMMERMAN/ Primary Examiner, Art Unit 3684	
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Notice of References Cited	Application/Control No. 13/424,054		Applicant(s)/Patent Under Reexamination THORNBERRY ET AL.	
	Examiner MATTHEW ZIMMERMAN		Art Unit 3684	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0087332 A1	07-2002	Como, Brian	705/1
*	B	US-2010/0114537 A1	05-2010	Pershing, Chris	703/1
*	C	US-2010/0110074 A1	05-2010	Pershing, Chris	345/423
*	D	US-2010/0179787 A2	07-2010	Pershing et al.	702/156
*	E	US-2010/0296693 A1	11-2010	Thornberry et al.	382/100
*	F	US-8,078,436 B2	12-2011	Pershing et al.	703/2
*	G	US-8,209,152 B2	06-2012	Pershing, Chris	703/1
*	H	US-2012/0179431 A1	07-2012	Labrie et al.	703/1
*	I	US-8,401,222 B2	03-2013	Thornberry et al.	382/100
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Jan. 2010 - http://aims.jocogov.org/Resources/Pictometry_Resources/POLQuickStart.pdf
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.