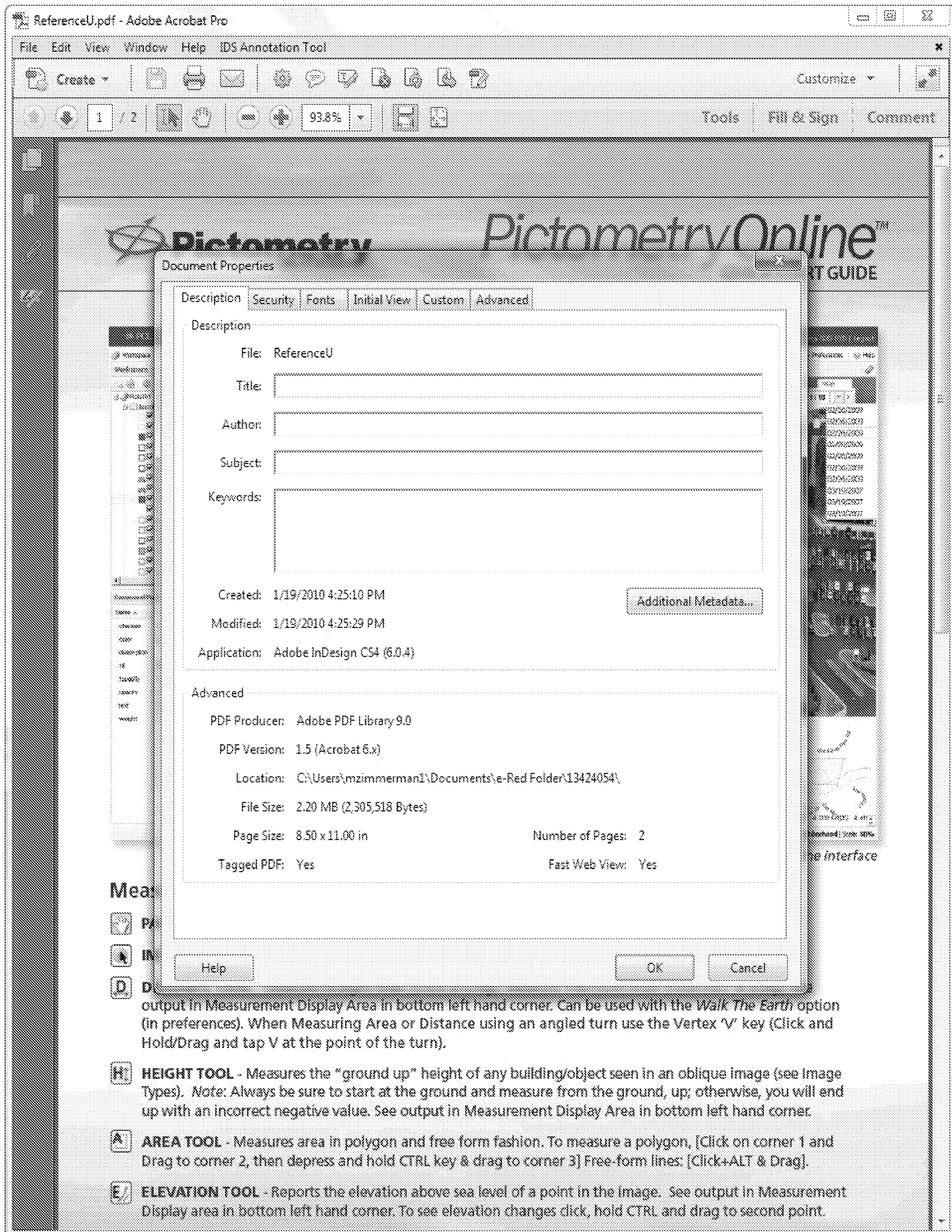
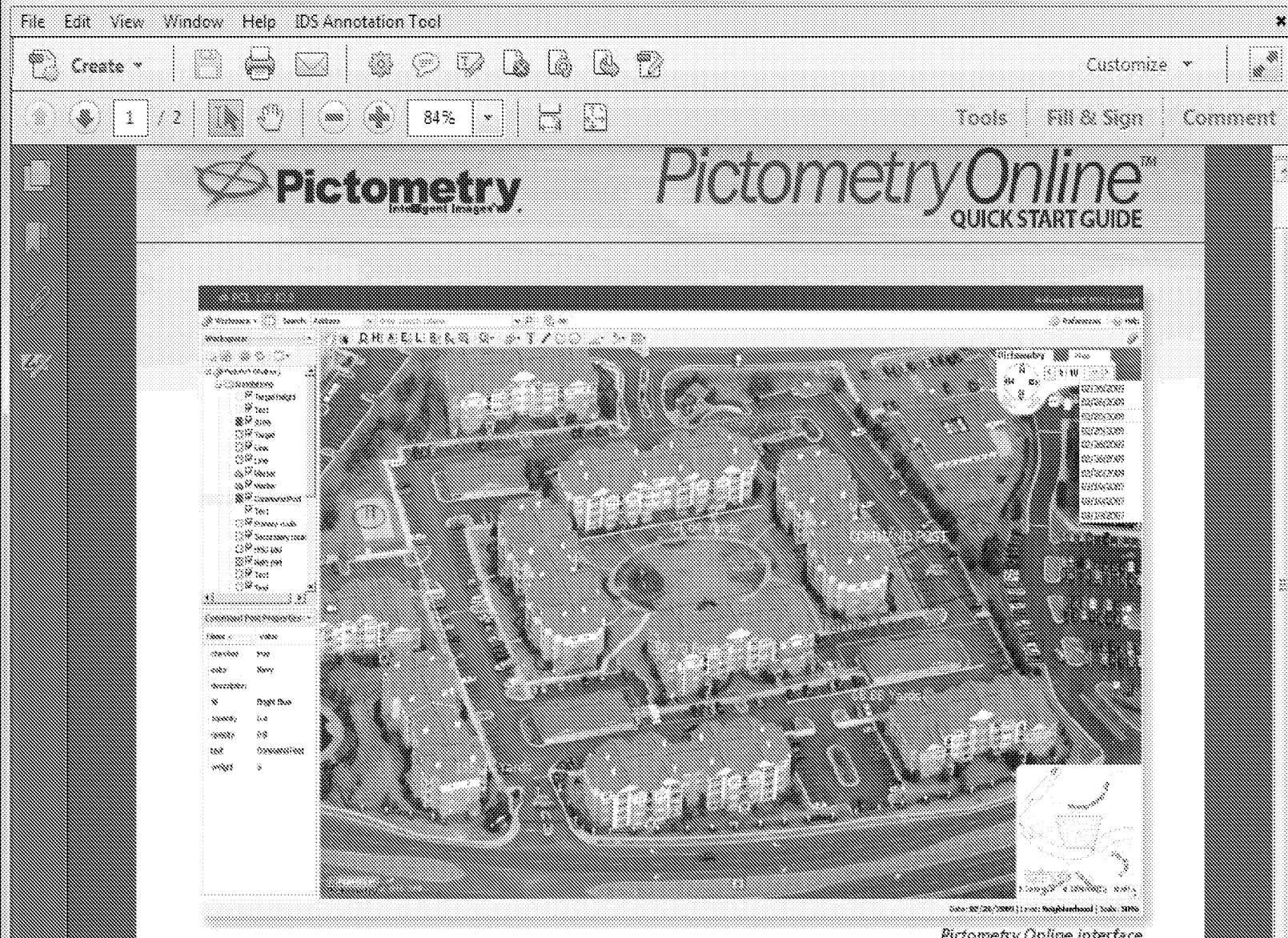
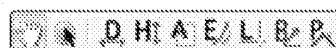




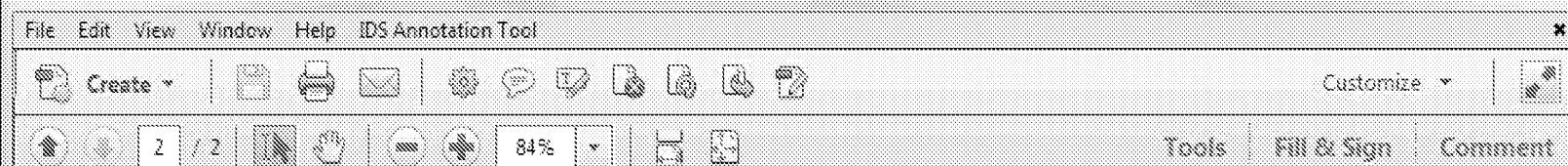


Pictometry Online interface

Measurement Data Tools

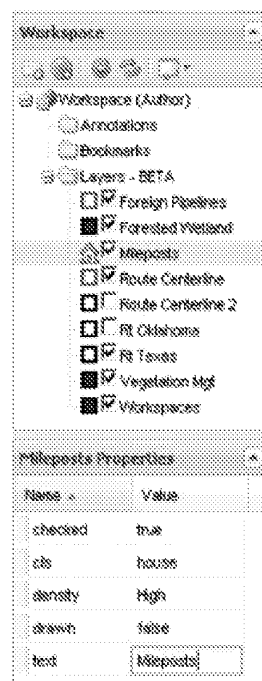


- ☒ **PAN TOOL** - Seamlessly pan across entire areas.
- ☒ **IMAGE TOOL** - Click on any point on the map or an image to redirect your area of interest.
- ☒ **DISTANCE TOOL** - Measure straight lines: [Click & Drag]. Measure free-form lines: [Click+ALT & Drag]. See output in Measurement Display Area in bottom left hand corner. Can be used with the *Walk The Earth* option (in preferences). When Measuring Area or Distance using an angled turn use the Vertex 'V' key (Click and Hold/Drag and tap V at the point of the turn).
- ☒ **HEIGHT TOOL** - Measures the "ground up" height of any building/object seen in an oblique image (see Image Types). *Note:* Always be sure to start at the ground and measure from the ground, up; otherwise, you will end up with an incorrect negative value. See output in Measurement Display Area in bottom left hand corner.
- ☒ **AREA TOOL** - Measures area in polygon and free form fashion. To measure a polygon, [Click on corner 1 and Drag to corner 2, then depress and hold CTRL key & drag to corner 3] Free-form lines: [Click+ALT & Drag].
- ☒ **ELEVATION TOOL** - Reports the elevation above sea level of a point in the image. See output in Measurement Display area in bottom left hand corner. To see elevation changes click, hold CTRL and drag to second point.
- ☒ **LOCATION TOOL** - Reports the lat/long coordinates in the Measurement Display Area in bottom left hand corner.
- ☒ **BEARING TOOL** - Easily find compass bearing and interior angle.
- ☒ **ROOF PITCH TOOL** - Measures roof heights, area, slope and roof pitch.

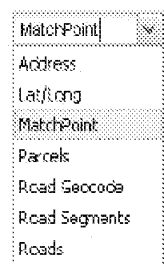


Query and Annotation Tools

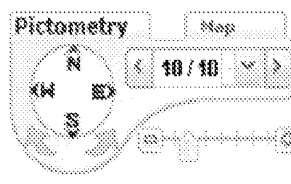
- EXTRACT TOOL** - Crop and save images and annotations to a file.
- QUERY TOOL** - GIS data layers seamlessly integrate into POL and can be queried by selecting a layer from the dropdown then clicking on the image.
- MARKER TOOL** - Mark any image with a variety of symbols and markers.
- TEXT TOOL** - Type and edit text right on your image.
- LINE TOOL** - Create lines that vary in thickness and color.
- SHAPE TOOL** - Create any enclosed linear polygon.
- CIRCLE TOOL** - Create a circle by clicking on the center point, followed by clicking on the radius point.
- LINE COLOR** - Choose from a variety of predetermined or custom colors.
- FILL COLOR** - Choose from a variety of predetermined or custom colors.
- CLEAR TEMPORARY ANNOTATIONS** - Easily erase temporary annotations such as measurements and GIS queries.
- EXPORT CURRENT IMAGE** - Export screen image or entire native image.



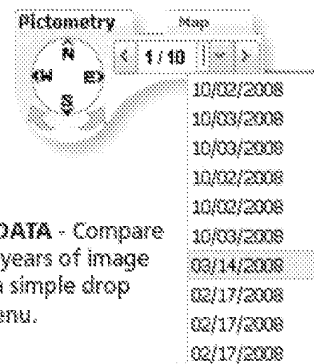
WORKSPACE - Keep all your annotations, bookmarks and queries organized in folders and instantly share vital visual intelligence and annotations with multiple users from multiple locations.



SEARCH - Multiple search options are available to accurately locate any point, address, coordinates, parcel, road, centroid or landmark.



NAVIGATE - Quickly and easily view Pictometry obliques, orthos and change to detailed bing 2D maps.



QUERY TOOL - GIS data layers seamlessly integrate into POL and can be queried by clicking on any available layer.

IMAGE DATA - Compare multiple years of image data by a simple drop down menu.

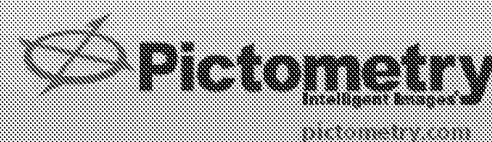
Image Types and Image Levels

Orthogonal - These images are taken from a straight down perspective, producing a "flat" roof top" image.

Oblique - These images are taken from approximately a 45-degree perspective, producing an "3D-like" image.

Neighborhood - Lower altitude producing the greatest detail of the displayed ground area.

Community - Higher altitude images providing a larger "footprint" of the displayed ground area.



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CONFIRMATION NO. 7006

SERIAL NUMBER 13/424,054	FILING or 371(c) DATE 03/19/2012 RULE	CLASS 705	GROUP ART UNIT 3684	ATTORNEY DOCKET NO. 6338.157	
APPLICANTS INVENTORS Chris T. Thornberry, Indianapolis, IN; Dale R. Thornberry, Carmel, IN; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 03/30/2012					
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and /MATTHEW E Acknowledged ZIMMERMAN/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY IN	SHEETS DRAWINGS 9	TOTAL CLAIMS 13	INDEPENDENT CLAIMS 2
ADDRESS DUNLAP CODDING, P.C. PO BOX 16370 OKLAHOMA CITY, OK 73113 UNITED STATES					
TITLE Method and System for Quick Square Roof Reporting					
FILING FEE RECEIVED 595	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

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Symbol					Type	Version	
G06Q		10		10	F	2013-01-01	

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NONE		Total Claims Allowed:	
		18	
(Assistant Examiner)	(Date)		
/MATTHEW ZIMMERMAN/	06/23/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

Issue Classification 	Application/Control No. 13424054	Applicant(s)/Patent Under Reexamination THORNBERRY ET AL.
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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G Grant - Urban Habitats, 2006 - urbanhabitats.org
... CUE Building at the Horniman Museum, in Forest Hill, south London, with a 250-square-meter **pitched roof**, was also ... and has an 8-degree **pitch**; the other is north facing and has a 27-degree **pitch** (Figure 2 ... Sedum **roofs** are the **predominant** type of extensive green **roof** in London ...
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On the wind-loading mechanism of **roofing** elements
C Kramer, HJ Gerhardt, HW Kuster - Journal of Wind Engineering and ..., 1979 - Elsevier
... Fig. 3 is generally valid for **pitched**-roofed buildings and seems to be useful for coding purposes. ...
Fig.3. Simplified pressure distributions for **roofs** with various **pitch** angle. ... The **predominant** geometric parameter for the pressure distribution is the tile thickness t related to the non ...
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Roof selection for rainwater harvesting: quantity and quality assessments in Spain uab.es [PDF]
R Farrer, T Morales-Pinzón, A Guisasaola, C Taya... - Water research, 2011 - Elsevier
... variables were the runoff and the physical-chemical parameters; and rainfall height, **predominant** wind orientation ... Depending on the local rainfall profile (either **predominance** of small or large rain events ... affect the runoff from M and P **roofs** (the only single **pitch** sloping **roofs**). ...
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... 1700 m. where rectangular longhouses, the most widespread Melanesian type, become the **predominant** traditional form ... from Britain and mainland Europe has a mean value of axial **pitch** (x) of ... 4) shows that, during the winter period, the winds are **predominantly** from the south ...
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S Okamoto - ASME 2006 Pressure Vessels and ..., 2006 - ... asmedigitalcollection.asme.org
... if the element is located in an area with attached flow, eg on the windward surface of a **pitched** roof. ... If the **roof** **pitch** is increased, the vortex cones decrease in strength. ... The **predominant** geometric parameter for the pressure distribution is the tile thickness related to the non ... Cited by 5 Related articles All 5 versions Cite Save

A survey of roof failures in Oyo State of Nigeria palgrave-journals.com [HTML]

Y Mijinyawa, SO Adesogan ... - Journal of Building ..., 2007 - palgrave-journals.com
... The most popular of the **pitch** roof types is the gable roof. ... CONCLUSIONS. Although all types of roof could be found in the area surveyed, **pitched**/gable roofs were the most **predominant** accounting for about 55 per cent, while only about 16 per cent were flat roofs. ... Cited by 3 Related articles All 2 versions Cite Save

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P Steadman, HR Bruhns, B Gakovic - Environment and Planning ..., 2000 - researchgate.net
... Thus, felt and asphalt as **roof** materials are associated **predominantly** with flat **roofs** or **roofs** with ...
The composite classification is given in table 5. 'Double **pitch**' counts both gabled and hipped **roofs**. ... analysis takes account, in each case, of which type of **roof** is **predominant** on a ...
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... **Predominant** wind direction during monsoon period, ie, June to September is west to South west ...
Though **predominantly** south west, the wind is influenced by the presence of other topographical features ... The **roofs** have high **pitch** up to 45 degrees to help the rain water drainage ...
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- Small-scale test behavior of cold-formed steel **roof** trusses
JL Dawe, JV Wood - Journal of structural engineering, 2006 - ascelibrary.org
... With decreasing steel thickness, tilting becomes the **predominant** failure mechanism while bearing stress becomes more ... is always a concern when looking at the performance of a **pitched roof** in areas of ... Each test specimen was constructed at a 4:12 **roof pitch** using CFS C-stud ...
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- Risk assessment of residential buildings for an eruption of Furnas Volcano, Sao Miguel, the Azores researchgate.net [PDF]
A Pomonis, R Spence, P Baxter - Journal of Volcanology and Geothermal ..., 1999 - Elsevier
... In areas of heavy snowfall **roofs** with **pitch** of 35° or greater are a standard design feature of domestic and other buildings. More than 90% of the buildings with **pitched roof** were found to have a **pitch** of around 30°, and this is also maintained in new buildings. 4.6. ...
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- [CITATION] Louisiana's Remarkable French Vernacular Architecture, 1700-1900
JD Edwards - 1988 - Department of Geography & ...
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- Long-term performance of selected old Berlin greenroofs in comparison to younger extensive greenroofs in Berlin researchgate.net [PDF]
M Köhler, PH Poll - Ecological Engineering, 2010 - Elsevier
... Advantages including reduced cost (due to low **pitch** and fewer required building materials), fire resistance and ... MEG-**roof** placed onto the moderately **pitched** (20° 20°) original **roof** of a typical 5-story ... In reality the **predominant** wind direction has to be taken into account, too. ...
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- Architecture and Class Segregation in Late Nineteenth-Century Terre Haute, Indiana
RW Bastian - Geographical Review, 1975 - JSTOR
... A still **predominantly** residential remnant of this neighborhood was found to be confined to Terre ...
3). As on the Neo-Jacobean houses, **roofs** are steeply **pitched** and have projecting gables or ...
Revival houses have a round French-chateau-style corner tower with a conical **roof**. ...
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Calculation of bright roof-tops for solar PV applications in Dhaka Megacity, Bangladesh

MH Kabir, W Endlicher, J Jägermeyr - Renewable Energy, 2010 - Elsevier
... been done through the Object Based **Image** Analysis (OBIA) from the Quickbird **satellite** data of ... Areas outside the DCC wards of the Quickbird **image** mostly cover water bodies, agricultural lands ... That is why this object-based assessment tool is not useful to **estimate** the overall ...
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gisknowledge.net [PDF]

MT Pareschi, L Cavarra, M Favalli, F Giannini ... - Natural Hazards, 2000 - Springer
... 2.2. DIGITAL **IMAGES** FROM **SATELLITE** OR AIRCRAFT ... the volcano, derived from a map at an original scale of 1 : 25,000 and from remote sensing **images**, are: inhabited ... times of 1 min on a PC 200 MHz, 64 MB Ram) superimposed on a shadowed georeferenced **image** of Mt. ...
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MK Ng, RJ Plemmons, S Qiao - Image Processing, IEEE ..., 2000 - ieeexplore.ieee.org
... guide star **image** as initialization and use of a good **estimate** of the support are useful in the blind deconvolution of the **satellite image**. ... [8] D. Kundur, "Blind deconvolution of still **images** using recursive ... [15] D. Kundur and D. Hatzinakos, "Blind **image** deconvolution revisited ...
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[book] Remote sensing of impervious surfaces

Q Weng - 2007 - books.google.com
... Sensing of Impervious Surfaces, Qihao Weng Multispectral **Image** Analysis Using ... and Daniele Riccio Roof Mapping Using Fused Multiresolution Optical **Satellite Images**
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Q Zheng, R Chellappa - Image Processing, IEEE Transactions ..., 1993 - ieeexplore.ieee.org
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BC Forster - International Journal of Remote Sensing, 1985 - Taylor & Francis
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BERNSTEIN, R., 1976, Digital **image** processing of Earth observational sensor data. ...
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T Vogtle, E Steinle - International Archives of Photogrammetry and Remote ..., 2000 - isprs.org
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Q Weng - 2007 - books.google.com
... Sensing of Impervious Surfaces, Qihao Weng Multispectral **Image** Analysis Using ... and Daniele Riccio **Roof** Mapping Using Fused Multiresolution Optical **Satellite Images** ...
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Estimating erosion surface features by linear mixture modeling

GI Metternicht, A Fernont - Remote Sensing of Environment, 1998 - Elsevier
... The median of the abundance **images** showed that, in 95% of the cases, the ... surface feature, were selected in the ephemeral brooks and sampled to **estimate** the proportions of ... the various methods commonly used to determine end-members from the **satellite image**, three were ...
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Per-pixel and object-oriented classification methods for mapping urban features using Ikonos **satellite** data

researchgate.net [PDF]

S Bhaskaran, S Paramananda, M Ramnarayan - Applied Geography, 2010 - Elsevier
... We used both raster and vector data (aerial **photo images**, street and road networks, buildings) from ... The first step in the analysis was to segment the **image** into different homogeneous objects ... the optimal segments were **estimated** from a time-series of mss Ikonos **satellite** data by ...
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Satellite Roof Measuring - Page 3 - Roofing - Contractor Talk
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Apr 18, 2008 - "We do all that (the calculations for preparing the estimate) in about 10 to 15 ... From the model, Sungevity calculates the pitch of the roof, the azimuth (for ...

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Nov 14, 2008 - nidirectional camera mounted on the roof of the vehicle. ... estimated purely from omnidirectional images over a distance of ... perimposed onto a satellite image of the same test environment. is predominant, there are also many feature points that come the orientation (roll and pitch angles) of the camera axis in the.

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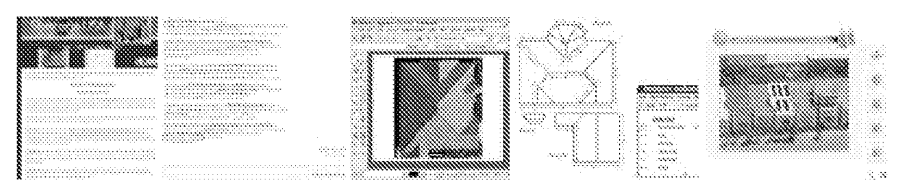
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Before Mar 19, 2011 Sorted by relevance All results Clear

Aerial Roof Estimating Fast and Accurate | Replacement ...
[www.replacementcontractoronline.com/.../roofing/aerial-roof-estimating-...](#)
May 5, 2009 - Roofing contractors make use of a new estimating tool they say is safer and more ... enabling a satellite to pinpoint and photograph that particular roof, and then, ... measurements as well as pitched angle measurements and materials lists ... improvement company in Milwaukee, Wis., started using aerial imaging last year.

Satellite Roof Measuring - Page 3 - Roofing - Contractor Talk
[www.contractortalk.com > Forum > Trade Talk > Roofing](#)
Mar 29, 2009 - 20 posts - 7 authors
[http://www.mapcruzin.com/satellite-aerial-photos-maps/](#) ... We account for pitch! ... We actually use 5 different images to calculate the area of a given roof.

Images for satellite image estimate roof pitch Report images

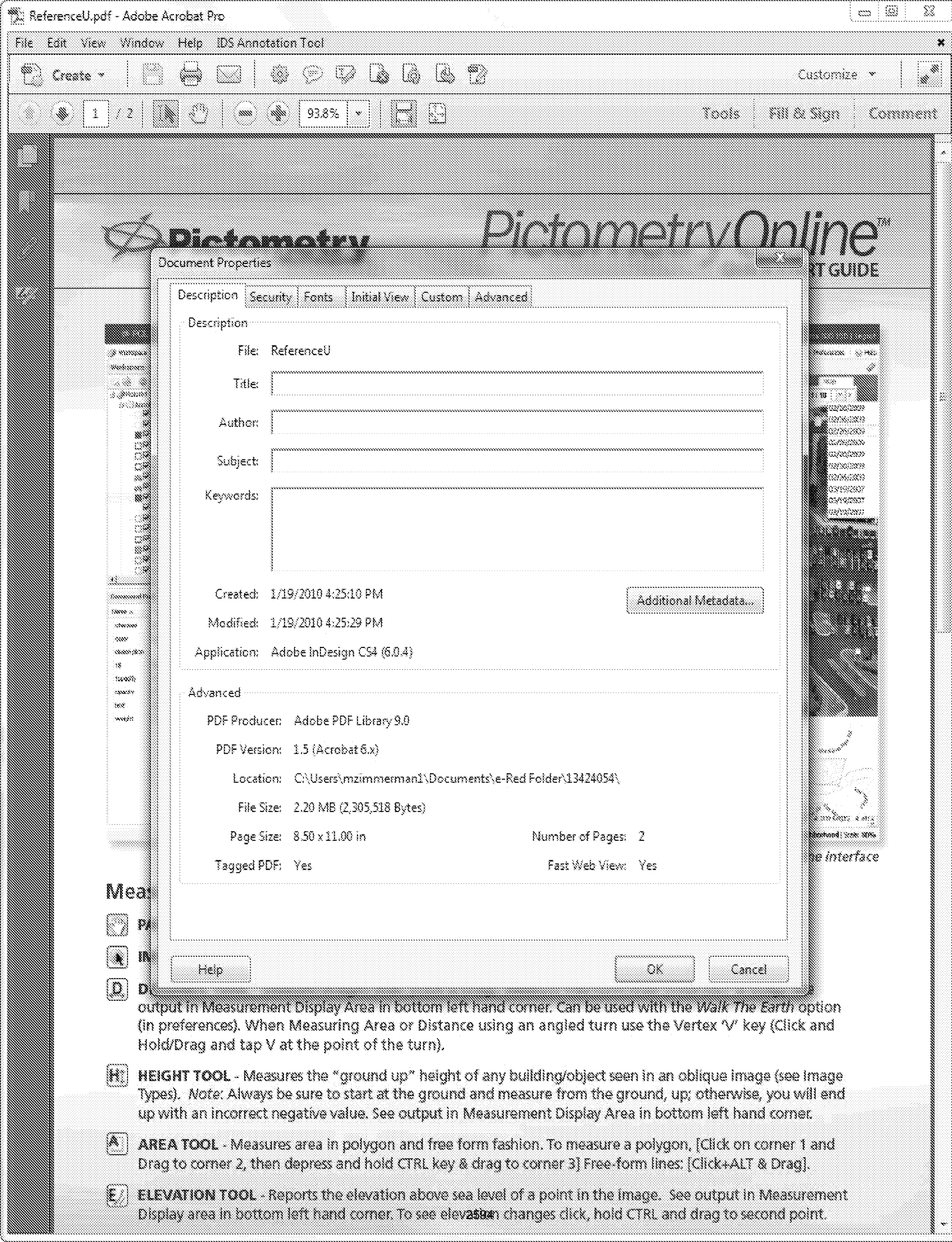


More images for satellite image estimate roof pitch

How It Works - RoofCAD :: Smart Software for Roofing ...
[www.roofcad.com/Satellite/HowItWorksPitched.aspx](#)
Jan 4, 2009 - Acquire a satellite or aerial image of the house from a service like Pictometry, Google Earth ... allow you to calculate the pitch, very accurately, from their images.

Geoestimator... eagle view... etc etc - Roofing.com
[talk.roofing.com/t/geoestimator-eagle-view-etc-etc/5307](#)
Feb 27, 2010 - so i was at the roofing convention this week, and all these companies who are doing satellite imaging and full measurements (pitch, ridge, perimeter, sq ft, ... i know that measuring the roof with a tape measure is free, but sometimes its too ...

Cutting down solar costs with satellite imagery - CNET
[www.cnet.com/.../cutting-down-solar-costs-with-satellite-imagery/](#) CNET
Apr 18, 2008 - "We do all that (the calculations for preparing the estimate) in about 10 to 15 ... From the model, Sungevity calculates the pitch of the roof, the azimuth (for ...



Meas

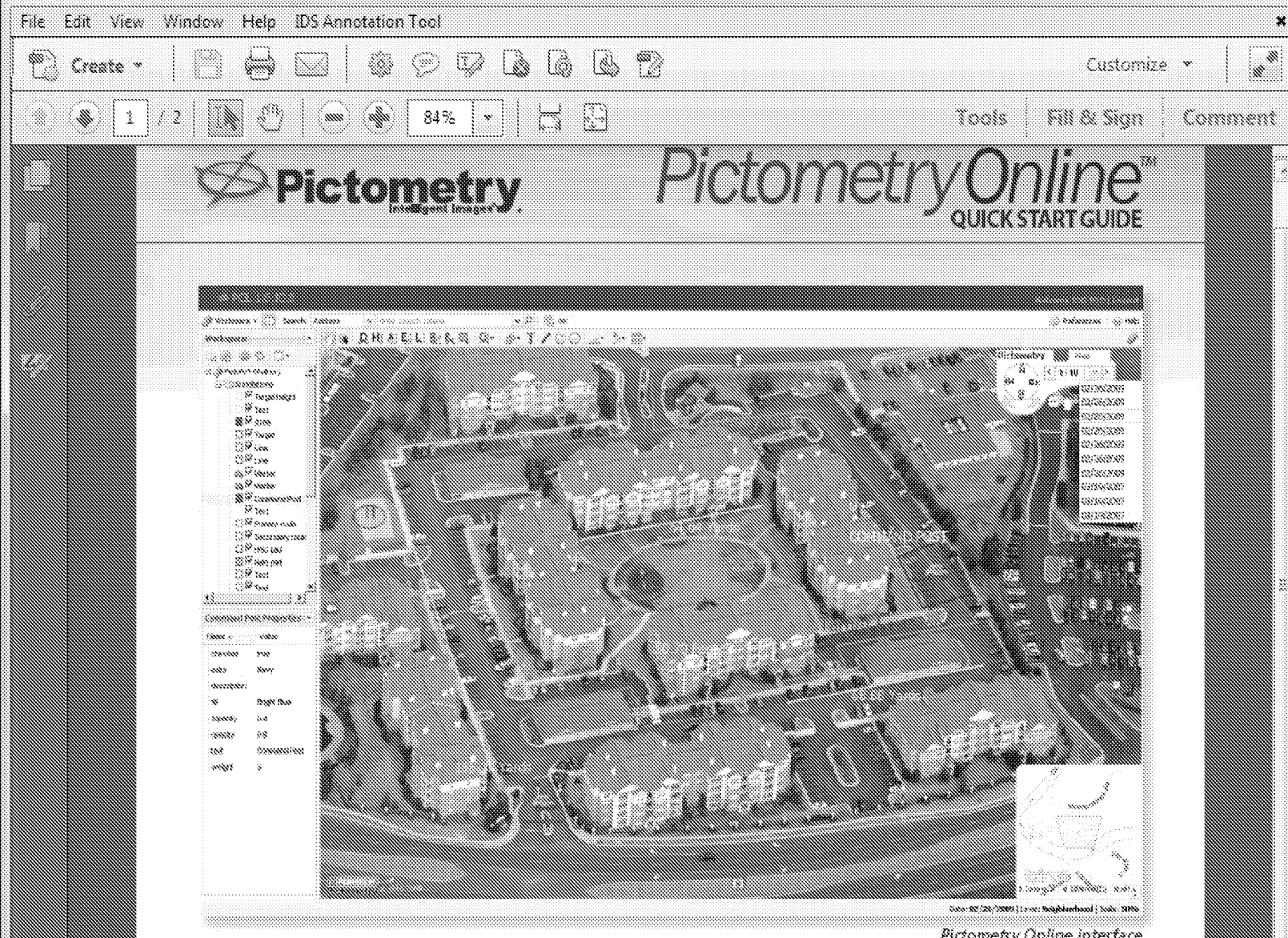


output in Measurement Display Area in bottom left hand corner. Can be used with the *Walk The Earth* option (in preferences). When Measuring Area or Distance using an angled turn use the Vertex 'V' key (Click and Hold/Drag and tap V at the point of the turn).

H) HEIGHT TOOL - Measures the "ground up" height of any building/object seen in an oblique image (see Image Types). *Note:* Always be sure to start at the ground and measure from the ground, up; otherwise, you will end up with an incorrect negative value. See output in Measurement Display Area in bottom left hand corner.

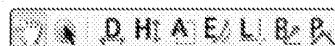
A) AREA TOOL - Measures area in polygon and free form fashion. To measure a polygon, [Click on corner 1 and Drag to corner 2, then depress and hold CTRL key & drag to corner 3] Free-form lines: [Click+ALT & Drag].

E) ELEVATION TOOL - Reports the elevation above sea level of a point in the image. See output in Measurement Display area in bottom left hand corner. To see elevation changes click, hold CTRL and drag to second point.

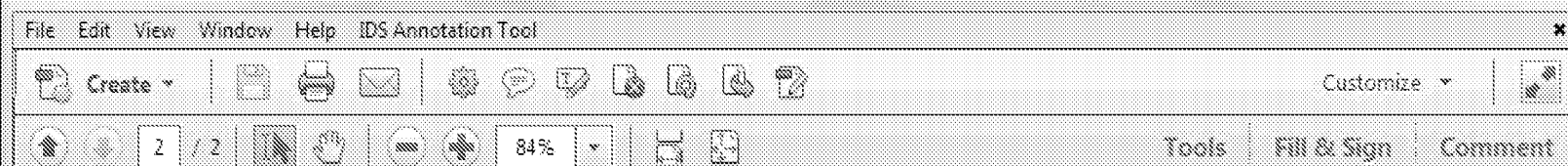


Pictometry Online interface

Measurement Data Tools



- PAN TOOL** - Seamlessly pan across entire areas.
- IMAGE TOOL** - Click on any point on the map or an image to redirect your area of interest.
- DISTANCE TOOL** - Measure straight lines: [Click & Drag]. Measure free-form lines: [Click+ALT & Drag]. See output in Measurement Display Area in bottom left hand corner. Can be used with the *Walk The Earth* option (in preferences). When Measuring Area or Distance using an angled turn use the Vertex 'V' key (Click and Hold/Drag and tap V at the point of the turn).
- HEIGHT TOOL** - Measures the "ground up" height of any building/object seen in an oblique image (see Image Types). *Note:* Always be sure to start at the ground and measure from the ground, up; otherwise, you will end up with an incorrect negative value. See output in Measurement Display Area in bottom left hand corner.
- AREA TOOL** - Measures area in polygon and free form fashion. To measure a polygon, [Click on corner 1 and Drag to corner 2, then depress and hold CTRL key & drag to corner 3] Free-form lines: [Click+ALT & Drag].
- ELEVATION TOOL** - Reports the elevation above sea level of a point in the image. See output in Measurement Display area in bottom left hand corner. To see elevation changes click, hold CTRL and drag to second point.
- LOCATION TOOL** - Reports the lat/long coordinates in the Measurement Display Area in bottom left hand corner.
- BEARING TOOL** - Easily find compass bearing and interior angle.
- ROOF PITCH TOOL** - Measures roof heights, area, slope and roof pitch.

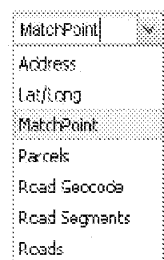


Query and Annotation Tools

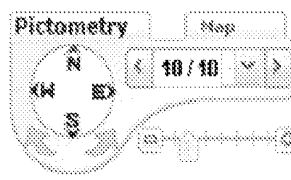
- EXTRACT TOOL** - Crop and save images and annotations to a file.
- QUERY TOOL** - GIS data layers seamlessly integrate into POL and can be queried by selecting a layer from the dropdown then clicking on the image.
- MARKER TOOL** - Mark any image with a variety of symbols and markers.
- TEXT TOOL** - Type and edit text right on your image.
- LINE TOOL** - Create lines that vary in thickness and color.
- SHAPE TOOL** - Create any enclosed linear polygon.
- CIRCLE TOOL** - Create a circle by clicking on the center point, followed by clicking on the radius point.
- LINE COLOR** - Choose from a variety of predetermined or custom colors.
- FILL COLOR** - Choose from a variety of predetermined or custom colors.
- CLEAR TEMPORARY ANNOTATIONS** - Easily erase temporary annotations such as measurements and GIS queries.
- EXPORT CURRENT IMAGE** - Export screen image or entire native image.



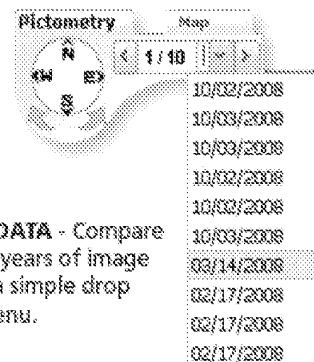
WORKSPACE - Keep all your annotations, bookmarks and queries organized in folders and instantly share vital visual intelligence and annotations with multiple users from multiple locations.



SEARCH - Multiple search options are available to accurately locate any point, address, coordinates, parcel, road, centroid or landmark.



NAVIGATE - Quickly and easily view Pictometry obliques, orthos and change to detailed bing 2D maps.



QUERY TOOL - GIS data layers seamlessly integrate into POL and can be queried by clicking on any available layer.

IMAGE DATA - Compare multiple years of image data by a simple drop down menu.

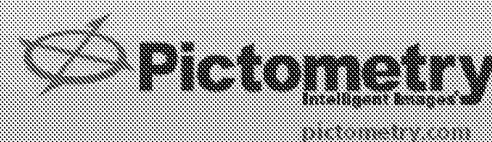
Image Types and Image Levels

Orthogonal - These images are taken from a straight down perspective, producing a "flat" roof top" image.

Oblique - These images are taken from approximately a 45-degree perspective, producing an "3D-like" image.

Neighborhood - Lower altitude producing the greatest detail of the displayed ground area.

Community - Higher altitude images providing a larger "footprint" of the displayed ground area.



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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	181	((predominant primary average estimat\$3) near pitch) and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:55
L3	6	(predominant adj pitch) and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:55
L4	6	(predominant adj pitch) with roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:56
L6	17	(thornberry near2 chris).in. (thornberry near2 dale).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:56
L8	93	pictometry.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:59
L10	28	(6 8) and pitch and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/23 12:59
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"	US-PGPUB;	OR	ON	2014/04/10

		"20100114537" "20110187713" "8078436".pn. 12/090692	USPAT			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; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/10 17:39
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;	OR	ON	2014/04/10 21:51

			EPO; JPO; DERWENT; IBM_TDB			
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; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/11 21:57
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;	OR	ON	2014/04/11 22:06

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; DERWENT; IBM_TDB	OR	ON	2014/04/11 22:24
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;	OR	ON	2014/11/20 17:51

			DERWENT; IBM_TDB			
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; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 18:04
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;	OR	ON	2014/11/20 18:21

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 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;	OR	ON	2014/11/20

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			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; IBM_TDB	OR	ON	2014/11/20 20:47
S84	581	("2273876" "20020041328" "20020041717" "20020114536" "20030014224" "20030043824" "20030088362" "20030214585" "20040105090" "20040167709" "20050073241" "20050169521" "20060028550" "20060036513" "20060092043" "20060238383" "20060250515" "20070024612" "20070046448" "20070237420" "20080120031" "20080123994" "20090177458" "20090208095" "20090259568" "20090304227" "20100296693" "20110033110" "3153784" "3594556" "3614410" "3621326" "3661061" "3716659" "3725563" "3864513" "3866602" "3877799" "4015080" "4044879" "4184711" "4240108" "4281354" "4344683" "4360876" "4382678" "4387056" "4396942" "4463380" "4489322" "4490742" "4491399" "4495500" "4527055" "4543603" "4586138" "4635136" "4653136" "4673988" "4686474" "4688092" "4689748" "4707698" "4758850" "4805033" "4807024" "4814711" "4814896" "4843463" "4899296"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 21:45

		"4906198" "4953227" "4956872" "5034812" "5086314" "5121222" "5138444" "5155597" "5164825" "5166789" "5191174" "5200793" "5210586" "5231435" "5247356" "5251037" "5265173" "5267042" "5270756" "5296884" "5335072" "5342999" "5345086" "5353055" "5369443" "5402170" "5414462" "5467271" "5481479" "5486948" "5506644" "5508736" "5555018" "5604534" "5617224" "5633946" "5668593" "5677515" "5798786" "5835133" "5841574" "5844602" "5852753" "5894323" "5899945" "5963664" "6037945" "6088055" "6094215" "6097854" "6108032" "6130705" "6157747" "6167300" "6222583" "6236886" "6256057" "6373522" "6421610" "6434280" "6597818" "6639596" "6711475" "6731329" "6747686" "6810383" "6816819" "6826539" "6829584" "6834128" "6876763" "7009638" "7018050" "7046401" "7061650" "7065260" "7123382" "7127348" "7133551" "7142984" "7184072" "7233691" "7262790" "7348895" "7424133" "7509241" "7728833" "7832267" "7844499" "8078396" "8705843").PN.				
S85	151	((predominant primary average estimat\$3) near pitch) and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 21:46
S86	0	S84 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/11/20 21:46

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	94	((predominant primary average estimat\$3) near pitch) and roof	USPAT; UPAD	OR	ON	2015/06/23 12:55
L5	0	(predominant adj pitch) with roof	USPAT; UPAD	OR	ON	2015/06/23 12:56
L7	4	(thornberry near2 chris).in. (thornberry near2 dale).in.	USPAT; UPAD	OR	ON	2015/06/23 12:56
L9	30	pictometry.as.	USPAT; UPAD	OR	ON	2015/06/23 12:59
S51	6384	705/26.1-27.2.ccls.	USPAT; UPAD	OR	ON	2014/04/11 22:06
S52	3	(thornberry near2 chris).in. (thornberry	USPAT;	OR	ON	2014/04/11

		near2 dale).in.	UPAD			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

6/ 23/ 2015 1:00:16 PM
C:\ Users\ mzimmerman1\ Documents\ EAST\ Workspaces\ 13424054.w sp

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
Updated EAST search and searched inventor and assignee.	6/23/2015	MZ
Searched GOOGLE.	6/23/2015	MZ

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

--	--

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

Jul 08, 2015 05:25:47 AM

Dear PAIR Customer:

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

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

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Application	Document	Mailroom Date	Attorney Docket No.
13424054	NOA	07/08/2015	6338.157
	INTV.SUM.EX	07/08/2015	6338.157
	892	07/08/2015	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,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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)

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

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 other drawing, must have its own certificate of mailing or transmission.

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.

Marc A. Brockhaus	(Depositor's name)
<i>Marc Brockhaus</i>	(Signature)
10/07/2015	(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,
(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.

1 DUNLAP CODDING, P.C.

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)

Pictometry International Corp.

Rochester, New York

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 *Marc Brockhaus*
Typed or printed name Marc A. Brockhaus

Date 10/07/2015
Registration No. 40,923

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:				
Utility Appl Issue Fee	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	23720000
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:	07-OCT-2015
Filing Date:	19-MAR-2012
Time Stamp:	15:51:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$480
RAM confirmation Number	2523
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	6338157_Transmittal10072015.pdf	55303	no	1
			776a0700e679039411a1f7dac414997d22ad302b		
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	6338157_PartB.pdf	74095	no	1
			32aa6e44f5a10996cf0b82a53de6470ee0378532		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30594	no	2
			e65e90b2e82b3f4226053301d6df1e5a97e0a849		
Warnings:					
Information:					
Total Files Size (in bytes):			159992		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

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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); and 2. PTOL-85 (1 pg).		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature			
Printed name	Marc A. Brockhaus		
Date	10/07/2015	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	10/07/2015

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.

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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/424,054	11/10/2015	9183538	6338.157	7006

30589 7590 10/21/2015
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 334 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

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 Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Chris T. Thornberry, Indianapolis, IN;
Dale R. Thornberry, Carmel, IN;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

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

Oct 22, 2015 05:23:59 AM

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PO BOX 16370
OKLAHOMA CITY, OK 73113
UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
13424054	ISSUE.NTF	10/21/2015	6338.157

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 with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM



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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
13/424,054	03/19/2012	Chris T. Thornberry	6338.157	66105

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 06/19/2018 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

✕ Applicant changing to regular undiscounted fee status.

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

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/marcabrockhaus/
Name:	Marc A. Brockhaus
Registration Number:	40923

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
 filed in the U.S. District Court _____ for the District of Delaware _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/29/2021	U.S. DISTRICT COURT for the District of Delaware
PLAINTIFF PICTOMETRY INTERNATIONAL CORP.		DEFENDANT ROOFR INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 9,183,538 B2	11/10/2015	Pictometry International Corp.
2 US 10,648,800 B2	5/12/2020	Pictometry International Corp.
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court _____ for the District of Delaware _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:21-cv-01852-RGA	DATE FILED 12/29/2021	U.S. DISTRICT COURT for the District of Delaware
PLAINTIFF EAGLE VIEW TECHNOLOGIES, INC., and PICTOMETRY INTERNATIONAL CORP.,		DEFENDANT ROOFR INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 9,183,538 B2	11/10/2015	Pictometry International Corp.
2 US 10,648,800 B2	5/12/2020	Pictometry International Corp.
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☒ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,170,840 B2	5/1/2012	Eagle View Technologies, Inc.
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

30589

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

30589

OR

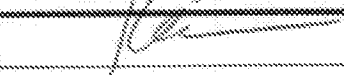
Firm or Individual Name	DUNLAP CODDING, P.C.		
Address	P.O. Box 16370		
City	Oklahoma City	State	OK Zip 73113
Country	US		
Telephone	405-607-8600	Email	mbrockhaus@dunlapcoddng.com

Assignee Name and Address: Pictometry International Corp.
25 Methodist Hill Drive
Rochester, NY 14623

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/98 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	5/13/21
Name	Kim Nakamaru	Telephone	(461) 373-3777
Title	General Counsel, Pictometry International Corp.		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO in 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 5 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 FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

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

ENCLOSURES (Check all that apply)

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

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	DUNLAP CODDING, P.C.		
Signature	/Ann M. Robl/		
Printed name	Ann M. Robl		
Date	08/12/2022	Reg. No.	71,541

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 /Ann M. Robl/

Typed or printed name Ann M. Robl

Date 08/12/2022

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.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
13/424,054

RECEIPT DATE / TIME
08/12/2022 11:00:59 AM ET

ATTORNEY DOCKET #
6338.157

Title of Invention

Method and System for Quick Square Roof Reporting

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # 9183538

CONFIRMATION # 7006

FILED BY Lori Martin

PATENT CENTER # 60867838

FILING DATE 03/19/2012

CUSTOMER # 30589

FIRST NAMED INVENTOR Chris T. Thornberry

CORRESPONDENCE ADDRESS -

AUTHORIZED BY ANN ROBL

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
6338157_Transmittal.pdf	1	Transmittal Letter	153 KB
6338157_POA.pdf	1	Power of Attorney	296 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
6338157_Transmittal.pdf	90683A6040149697CF339B490D0686B5124DBB2F4789D2456B 5197E9698532DFEB1D7A964D8EE89720018D955185A9ABB066 A805235C1DB95E7CB9C9A8E15573

6338157_POA.pdf

3DB9A73728D4F520435EA550FABF85A41ADEC96DFC77C9771
03DB22C7178FEA6DB25A87465C7C378131F3B1AC8668400975
6077A3300545EFEFC6F1AB80D0A27

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/424,054	03/19/2012	Chris T. Thornberry	6338.157

30589
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

CONFIRMATION NO. 7006
POA ACCEPTANCE LETTER



Date Mailed: 08/17/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/12/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tmwilliams/

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

Aug 17, 2022 04:32:08 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	N570	08/17/2022	6338.157

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 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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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM



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FEE ADDRESS CHANGE

APPLICATION #	FILING OR 371(C) DATE	REQUEST ID
13/424,054	03/19/2012	39392

The following fields have been changed to Customer Number 189081 on 09/01/2022 via Patent Center in view of the certification copied below that authorized the change.

- Maintenance Fee Address

The address for Customer Number 189081 is:

189081 - EagleView
PO BOX 16370
OKLAHOMA CITY, OK 73113

I certify, in accordance with 37 CFR 1.4(d)(4), that I am :

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature	Name	Registration #
/Ann Robl/	ANN ROBL	71541



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CORRESPONDENCE ADDRESS CHANGE

APPLICATION #	FILING OR 371(C) DATE	REQUEST ID
13/424,054	03/19/2012	39392

The following fields have been changed to Customer Number 189081 on 09/01/2022 via Patent Center in view of the certification copied below that authorized the change.

- Correspondence Address

The address for Customer Number 189081 is:

189081 - EagleView
PO BOX 16370
OKLAHOMA CITY , OK 73113

I certify, in accordance with 37 CFR 1.4(d)(4), that I am :

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature	Name	Registration #
/Ann Robl/	ANN ROBL	71541

The United States Patent and Trademark Office
PATENT TRIAL AND APPEAL BOARD



A petition has been filed in Patent Number 9,183,538, Application Number 13/424,054
on 1/3/2022 (Date).

The Case Number is IPR2023-00436.
(IPR, CBM, PGR, DER #)

To view the documents filed in this petition, go to <https://ptab.uspto.gov>.

Use the Search PTAB tab and enter the Patent Number or the Trial or Case Number and select the Search button.

Questions regarding this notice should be directed to the Patent Trial and Appeal Board at 571-272-7822.