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SnapAid, Ltd.
Exhibit 2042
Page #01

MAY PATENTS LTD.
Yehuda BINDER, U.S. Patent Agent
B.Sc.E.E.; M.Sc.E.E; M.B.A

May 30, 2018

U.S. Patent and Trademark Office (USPTO)
Customer Service Window
Mail Stop Patent Application
401 Dulany Street
Alexandria, VA 22314

Re: **New Utility Patent Application in U.S.**
Applicant(s): SNAPAID LTD.
Title: *REAL TIME ASSESSMENT OF PICTURE QUALITY*
Attorney Docket No.: SIVAN-001-US3

Sir/Madam,

Attached herewith is the above-identified application for Letters Patent including:

1. Applicant asserts small entity status.
2. Application Data Sheet (PTO/AIA/14);
3. Specification (31 pages), Claims 1-21 (3 pages) and Abstract (1 page).
4. 4 (four) sheets of Drawings (Figures 1-4).
5. Declaration

   [X] Newly executed [ ] Copy from prior application no. _____
6. Assignment submitted through EPAS

   [X] Newly executed [ ] Copy from prior application no. _____
7. Power of Attorney
8. Information Disclosure Statement (PTO/SB/08).
9. Certain documents were previously filed or cited to the USPTO in the prior application 15/582,722, which is relied upon under 35 U.S.C. § 120.

   Applicant(s) identify these documents by attaching an Information Disclosure Statement listing these documents and request that they be considered and made of record in accordance with 37 CFR § 1.98(d). Per Section 1.98(d),

   copies of these documents need not be filed in the application.

e-mail: yehuda@maypatents.com; Mobile: +972-54-4444577

10. Electronic Payment in the amount of US$ 835 is being made by deposit account no. 601835 to cover filing fee calculated as follows:

Application as Filed				**Fee (US$)**
Basic filing fee				75.00
Search Fee				330.00
Examination Fee				380.00
Total Sheets	**Extra Sheets**		**Rate**	
39/100	--		200.00	--
Claims	**# Filed**	**# Extra**	**Rate**	
Total Claims	1-21	--	50.00	50.00
Independent Claims	1	--	230.00	--
Multiple Dependent Claim			410.00	--
Total Filing Fee				835.00

11. As in the prior application 15/582,722, please associate the above referenced application with **Customer No. 131926**.
12. The Correspondence Address associated with **Customer No. 131926.**

Submitted by,
May Patents Ltd.

By: /Yehuda Binder/
Yehuda Binder
Registration No. 73,612

e-mail: yehuda@maypatents.com; Mobile: +972-54-4444577

REAL TIME ASSESSMENT OF PICTURE QUALITY

RELATED APPLICATIONS

This application is a continuation application of U.S. Application No. 15/582,722 filed on April 30, 2017, which is a continuation application of U.S. Application No. 15/007,253 filed on January 27, 2016 (U.S. Pat. No. 9,661,226, issued May 23, 2017), which is a continuation application of U.S. Application No. 14/437,105 filed on April 20, 2015 (U.S. Pat. No. 9,338,348, issued May 10, 2016), which is a national phase of, and claims priority from, PCT Application No. PCT/IL2013/050856 filed on October 22, 2013, which claims priority from U.S. Provisional Application No. 61/717,216 filed on October 23, 2013 and U.S. Provisional Application No. 61/759,643 filed on February 1, 2013, all of which applications are hereby incorporated by reference as fully set forth herein.

FIELD

The present invention relates generally to image processing and more particularly to analysis of photographed images.

BACKGROUND

Cameras today, even those with good "auto mode" functions, still rely on the camera user to assess a picture's quality, either at the time of taking the picture, or at a later stage. Certain software, such as Photoshop, offers tools to enhance a picture to an extent. Many users simply take more than one picture, say 5-6 pictures, so they will be able to choose one good one.

Conventional technology constituting background to certain embodiments of the present invention is described in the following publications inter alia:

a. US 20130155474 in which a user of the mobile device is provided with feedback prior to the capturing of at least one image of a paper document which provides the user with at least one instruction for adjusting at least one measured parameter. Parameter values may be combined into a group threshold or total overall quality score, such that the combination of all of the measured parameter values produces an overall quality score which exceeds a defined threshold value before the

image can be captured by the camera. According to this publication, "The user can be provided detailed information to assist the user in taking a better quality image of the document. For example, the blurriness may have been the result of motion blur caused by the user moving the camera while taking the image. The test result messages can suggest that the user hold the camera steadier when retaking the image."

b. WO 2006040761 / US20070195174 which describe a system in which the interface module further enables to define the scene dynamics of the captured image and attributes of the captured image scene dynamics include image motion speed and motion speed of the subjects and the interface module further enables setting the captured image attributes relative weight for the compution of the total image grade.

c. US20090278958 which describes inter alia that "The scoring of a current base image may be based on scores which have been given to previously captured base images. In such a manner, redundant calculation may be avoided."

d. Other systems such as the following patent documents: US7362354; WO2003069559; US7688379; US20090263028; US20060017820; US20060056835; US8125557; WO2011148212; US7920727; US20130155474; US8040382.

The disclosures of all publications and patent documents mentioned in the specification, and of the publications and patent documents cited therein directly or indirectly, are hereby incorporated by reference. Materiality of such publications and patent documents to patentability is not conceded

SUMMARY

Certain embodiments seek to utilize camera hardware such as accelerometers, gyros and autofocus lenses, inter alia, to evaluate pictures taken in real time, and actively assist in obtaining the best picture given the circumstances at hand.

Typically, each available sensor, e.g. accelerometers, gyros, sends its raw data to a processing component 400 that outputs a quality indicator e.g. as illustrated in Fig. 1. and Fig 3. Data may also be sent to Device/surrounding objects 4D position computation component 230 for 4D positioning computation. Raw data may be combined with quality indication from other sensors, such as the camera/lens module 200, that can send its own quality indications. For example, some lens modules can

estimate the picture focus quality, as it is a part of their auto focus functionality. Some camera/lens modules may have dual cameras or more for achieving 3D data, sophisticated focusing methods like Lytro light field camera, or their own hardware sensors like Google Glass. All this available data can be sent to component 400 and Device/surrounding objects 4D position computation component 230 for use of their functions. Various quality indicators, depending on device capabilities and implementation, may be employed.

Prior art has used certain independent quality indicators, each giving a quality of one particular aspect of a picture, for a given picture. Some try to quantify the quality by means of a total quality indicator. Typically this is done as follows:

$$QI_{total} = \sum_{i=1}^{n} QI(t)_i$$

Where n is the number of quality indicators (QI), and t is the time of test.

Some implementations use a weight function in computation, but the weight is either constant or can be change by the user manually.

$$QI_{total} = \sum_{i=1}^{n} QI(t)_i * w_i(t)$$

However, in this invention, the weight of one indicator will take into account data from other quality indicator/s e.g. their quality indicator value, weight, confidence level (explained forthwith) in them and their previous value, weight and confidence level. For example, if both device shake quality indicator and/or camera focus quality indicator indicate a poor quality, disregard use of aesthetic quality indicator in total computation, even if user indicated that he would like to give it a high priority. This will prevent the device from taking a picture when the picture is blurry, as is the case in prior art. Once shake is low and focus is optimal, aesthetic QI may be used in total quality computations. One quality indicator's importance or relative weight within the total quality indicator may change over time, if some other quality indicator indicates that the first quality indicator becomes less relevant in quantifying the picture quality.

Furthermore, since each QI algorithm has its own assumptions, and each sensor may have measurement errors, the quality indication (QI) value may therefore not be reliable. Also, a QI value that fluctuates widely may not be reliable, and in

certain cases, re-assessment of the quality indicator may be called for. Thus, a "confidence level" in the QI is obtained. These indicators may be relayed to a processing component that analyses the current relevance of each indicator, and with suitable configuration, provides a "total" quality value.

This total quality indicator and its detailed list of quality indicators can be used to give the user accurate feedback on the picture quality, whether and how it fits user preferences (configured in 151, used in total QI computation), and provide detailed suggestions on how to take a better picture, if possible.

Suggestions may be provided as an oral message, typically pre-recorded, as an icon on a screen, or as text. Suggestions may use the recorded images as a template for the suggestions. This may include marking over exposed areas in red, or marking a problematic element with a circle.

The quality indicators' values and total quality indicator can be shown to the user in real time.

Certain embodiments of the present invention include a method which comprises combining data from multiple sensors and multiple quality indicators, using available GPU and CPU, to compute, in real time, each quality indicator, and to form a combined total indicator to be shown to the user before and after he has pressed the shutter button. The user may get, or choose to get, suggestions from the application on how to improve the next shot, using the quality indicators and their correlation.

Further indication to the user can be made if the image is below a certain total quality indicator threshold.

According to one embodiment, quality indications are used to control the lens module 200. For example, focus distance reported may be below hyper focal distance or very short and accelerometer reports movement in direction perpendicular to focus plan. This can be used to find a way to shorten the shutter speed (increase ISO or change aperture for example). Another example may be to change the focus point and possibly focus distance if the object being tracked has moved.

In another embodiment, when the user presses the "shutter" button to take the picture (component 105), the device will wait for the total quality indicator to reach a minimum value/threshold, before taking a full resolution picture as shown in Fig 1. Ideally, this time will be close to the shutter release time. A timeout mechanism can ensure a full resolution picture will be taken, even if the threshold is not reached in a given time after the shutter is released.

A list of suggestions to the users may be for instance "blurred image due to camera shake", or "blurred subject due to subject movement", or "Image dynamic range is beyond the sensor dynamic abilities –choose area of interest, or take a high dynamic range (HDR) shot".

Embodiments include but are not limited to:

Embodiment 1. A method for computing the photo quality of a captured image in a device image acquisition system, said method comprising:

computing at least one total quality indicator based on at least two quality indicators computed from said captured image and its previous image frames,

to determine whether the photo quality is acceptable; and

providing a corresponding detailed photo quality feedback.

Embodiment 2. A system according to embodiment 1, where automatically activating the capturing apparatus, once a logical criterion based on said quality indicators is met.

Embodiment 3: A system, according to embodiment 1 where

a message provider is operative where at least one appropriate suggestion from a pre-stored table of suggestions on how the digital image can be improved further, where said message is presented as a suggestion to the user.

Embodiment 4: A system, according to embodiment 1 where

pictures are taken and saved at each frame, but only pictures with a said logical criterion are marked as so.

Embodiment 5: A system, according to embodiment 1 where the stream of frames is saved as a video and;

quality indicators, user preferences, confidence level, and quality importance are used to quantify video quality.

Embodiment 6: A system, according to embodiment 5, used to give a user suggestions on improvement of the video.

Embodiment 7: A system, according to embodiment 1, where computed QI and their confidence levels are used to change parameters in the lens/sensor module to achieve better total QI.

Embodiment 8: A system and method as in embodiment 1 used for automatic image capturing of at least one picture once a configured total quality indicator meets a minimum threshold, even without the user pressing a shutter button.

Embodiment 9. A system using blur type detection for alerting the user of object

movement in a region.

Embodiment 10. A system using blur type detection for alerting the user he is moving too fast in a vehicle to achieve a non-blurred image.

Embodiment 11. A system and method described herein for evaluating video quality.

Embodiment 12. A system with device shake recognition, where a device movement gesture can be used for shutter press indication.

Embodiment 13. A system with device shake recognition, where a device movement gesture can be used for delete picture indication.

Also provided, excluding signals, is a computer program comprising computer program code means for performing any of the methods shown and described herein when said program is run on a computer; and a computer program product, comprising a typically non-transitory computer-usable or -readable medium e.g. non-transitory computer -usable or -readable storage medium, typically tangible, having a computer readable program code embodied therein, said computer readable program code adapted to be executed to implement any or all of the methods shown and described herein. It is appreciated that any or all of the computational steps shown and described herein may be computer-implemented. The operations in accordance with the teachings herein may be performed by a computer specially constructed for the desired purposes or by a general purpose computer specially configured for the desired purpose by a computer program stored in a typically non-transitory computer readable storage medium. The term "non-transitory" is used herein to exclude transitory, propagating signals or waves, but to otherwise include any volatile or non-volatile computer memory technology suitable to the application.

Any suitable processor, display and input means may be used to process, display e.g. on a computer screen or other computer output device, store, and accept information such as information used by or generated by any of the methods and apparatus shown and described herein; the above processor, display and input means including computer programs, in accordance with some or all of the embodiments of the present invention. Any or all functionalities of the invention shown and described herein, such as but not limited to steps of flowcharts, may be performed by a conventional personal computer processor, workstation or other programmable device or computer or electronic computing device or processor, either general-purpose or

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Exhibit 2042
Page #09

specifically constructed, used for processing; a computer display screen and/or printer and/or speaker for displaying; machine-readable memory such as optical disks, CDROMs, DVDs, BluRays, magnetic-optical discs or other discs; RAMs, ROMs, EPROMs, EEPROMs, magnetic or optical or other cards, for storing, and keyboard or mouse for accepting. The term "process" as used above is intended to include any type of computation or manipulation or transformation of data represented as physical, e.g. electronic, phenomena which may occur or reside e.g. within registers and /or memories of a computer or processor. The term processor includes a single processing unit or a plurality of distributed or remote such units.

The above devices may communicate via any conventional wired or wireless digital communication means, e.g. via a wired or cellular telephone network or a computer network such as the Internet.

The apparatus of the present invention may include, according to certain embodiments of the invention, machine readable memory containing or otherwise storing a program of instructions which, when executed by the machine, implements some or all of the apparatus, methods, features and functionalities of the invention shown and described herein. Alternatively or in addition, the apparatus of the present invention may include, according to certain embodiments of the invention, a program as above which may be written in any conventional programming language, and optionally a machine for executing the program such as but not limited to a general purpose computer which may optionally be configured or activated in accordance with the teachings of the present invention. Any of the teachings incorporated herein may whereever suitable operate on signals representative of physical objects or substances.

The embodiments referred to above, and other embodiments, are described in detail in the next section.

Any trademark occurring in the text or drawings is the property of its owner and occurs herein merely to explain or illustrate one example of how an embodiment of the invention may be implemented.

Unless specifically stated otherwise, as apparent from the following discussions, it is appreciated that throughout the specification discussions, utilizing terms such as, "processing", "computing", "estimating", "selecting", "ranking", "grading", "calculating", "determining", "generating", "reassessing", "classifying", "generating", "producing", "stereo-matching", "registering", "detecting", "associating", "superimposing", "obtaining" or the like, refer to the action and/or

processes of a computer or computing system, or processor or similar electronic computing device, that manipulate and/or transform data represented as physical, such as electronic, quantities within the computing system's registers and/or memories, into other data similarly represented as physical quantities within the computing system's memories, registers or other such information storage, transmission or display devices. The term "computer" should be broadly construed to cover any kind of electronic device with data processing capabilities, including, by way of non-limiting example, personal computers, servers, computing system, communication devices, processors (e.g. digital signal processor (DSP), microcontrollers, field programmable gate array (FPGA), application specific integrated circuit (ASIC), etc.) and other electronic computing devices.

The present invention may be described, merely for clarity, in terms of terminology specific to particular programming languages, operating systems, browsers, system versions, individual products, and the like. It will be appreciated that this terminology is intended to convey general principles of operation clearly and briefly, by way of example, and is not intended to limit the scope of the invention to any particular programming language, operating system, browser, system version, or individual product.

Elements separately listed herein need not be distinct components and alternatively may be the same structure.

Any suitable input device, such as but not limited to a sensor, may be used to generate or otherwise provide information received by the apparatus and methods shown and described herein. Any suitable output device or display may be used to display or output information generated by the apparatus and methods shown and described herein. Any suitable processor may be employed to compute or generate information as described herein e.g. by providing one or more modules in the processor to perform functionalities described herein. Any suitable computerized data storage e.g. computer memory may be used to store information received by or generated by the systems shown and described herein. Functionalities shown and described herein may be divided between a server computer and a plurality of client computers. These or any other computerized components shown and described herein may communicate between themselves via a suitable computer network.

BRIEF DESCRIPTION OF THE DRAWINGS

Certain embodiments of the present invention are illustrated in the following drawings:

Fig. 1 is a functional block diagram of a system and method for real time assessment of picture quality produced on a device, e.g. as shown in Fig. 2, having multiple sensors including use of hardware sensor data to generate and utilize picture quality indications.

Fig. 2 illustrates a hardware and operating system (OS) layer which is operative in conjunction with the functional block diagram of Fig. 1.

Figs. 3 and 4 illustrates component 400 in detail and a sample of a quality indicator computation dependence, all according to certain embodiments.

Computational components described and illustrated herein can be implemented in various forms, for example, as hardware circuits such as but not limited to custom VLSI circuits or gate arrays or programmable hardware devices such as but not limited to FPGAs, or as software program code stored on at least one tangible or intangible computer readable medium and executable by at least one processor, or any suitable combination thereof. A specific functional component may be formed by one particular sequence of software code, or by a plurality of such, which collectively act or behave or act as described herein with reference to the functional component in question. For example, the component may be distributed over several code sequences such as but not limited to objects, procedures, functions, routines and programs and may originate from several computer files which typically operate synergistically.

Data can be stored on one or more tangible or intangible computer readable media stored at one or more different locations, different network nodes or different storage devices at a single node or location.

It is appreciated that any computer data storage technology, including any type of storage or memory and any type of computer components and recording media that retain digital data used for computing for an interval of time, and any type of information retention technology, may be used to store the various data provided and employed herein. Suitable computer data storage or information retention apparatus may include apparatus which is primary, secondary, tertiary or off-line; which is of

any type or level or amount or category of volatility, differentiation, mutability, accessibility, addressability, capacity, performance and energy use; and which is based on any suitable technologies such as semiconductor, magnetic, optical, paper and others.

DETAILED DESCRIPTION OF THE DRAWINGS

Certain embodiments of the present invention include a system and method for real time assessment of picture quality produced on a device having multiple sensors, such as a smartphone. In one embodiment, all of the sensors, such as but not limited to an image sensor, accelerometer or gyroscope, are embedded in one device. It may be that they reside in different devices, but send their data to one device where the total indicators are computed.

Fig. 1 is a functional block diagram of a system and method for real time assessment of picture quality produced on a device, e.g. as shown in Fig. 2, having multiple sensors including use of hardware sensor data to generate and utilize picture quality indications.

Referring now to Fig. 1, a Lens/sensor module 200 such as OmniVision OM8865 may be characterized by and/or generate photographic parameters, including but not limited to some or all of:

a) The current image the sensor receives, referred to as a frame or image

b) ISO speed (current, min, max)

c) Is camera focused (yes/no/estimate if available).

d) Aperture

e) Focal length

f) Shutter speed

g) Focus rectangle, or area of interest

h) Sensor type and size – for example BSI2 CMOS 1/2.5 inch

i) Depth of Field

j) Scene mode or user preferences.

These parameters may be used for computing quality indicator values and their confidence level, as indicated in Fig 3.

The module 200 sends continuous video frames of the scene in front of the device lens, and data from other sensors is continuously received and analyzed in real

time.

Typically, a smartphone includes all such sensor and hardware inside the smartphone. However, it is possible that the image may be sent to the device from an external camera via a cable or Wi-Fi. The image sensor sends its data to the device operating system that may send the whole image or a preview of it to the GPU 122 of Fig. 2 at a rate of X frames per second. This image data is passed on to various programmed GPU vertex and fragment shaders. It is then used for fast computation of some of the quality indicators.

Fig. 2 illustrates a hardware and operating system (OS) layer, which is operative in conjunction with the functional block diagram of Fig. 1.

Errors and probability in quality indicators

When prior art computes a quality indicator value, it was done without taking into account the possibility of error in the computed QI, as all sensors give out errors.

For example, a user wishes to compute a quality indicator for device shake based on data from accelerometers. Accelerometers have precision errors and drifting errors over time. If the user wishes to compute a speed vector, this will be relevant. The speed may be assumed to be 100 +-3. A GPS can estimate location and speed errors via its location computation. Errors may also occur as a result of blurriness of some sort, or may result from image resolution and many other factors. For example, assuming a device is moving at a constant speed, and V_i is the computed speed in frame i, where $1 \leq i \leq n$, then if value V_n is 2 standard deviation from the average speed measured so far, (and assuming a normal distribution), then probability for this value is 5%, denoted $P_i(t)$. Most of the time the speed may not be constant, but the above technique can nonetheless can be applied, mutatis mutandis, when errors can be estimated. The probability factor P, is closely related to the nature of the quality indicator and hardware used. For example, a GPS device has its own algorithm for that e.g. Kalman Filters. Beyond mere errors, recognition or pattern algorithms have assumptions that can be related to "probability" of the feature been searched. For example in object recognition, if 4 out of 5 features for this object (face, lamp, chair) have been recognized, a probability P of 80% is indicated. Other examples may be comparison to a similar image for same scene recognition, as objects have moved or just look similar. Aesthetic fit algorithms employ "probability" which pertains to this.

Confidence level of quality indicator

Thus far, only a current image has been illustrated, but previous data can aid in computation of a better confidence level. This depends on the QI in question and the nature of the errors, but assuming a general case, one way of computing the confidence level of QI_i denoted $C_i(t)$ is

$$C_i(t) = P_i(t_{j2}) * N(P_i(t_{j2}))$$

$$N(x) = e^{\frac{-(x-\mu)^2}{2\sigma^2}}$$

$$\mu_i = \sum_{k=t1}^{t2} \frac{P(t_k)_i}{k2-k1}; \quad \sigma_i = \sqrt{\frac{1}{n}\sum_{k=1}^{n}(P(t_k)_i - \mu_i)^2}$$

t_{j2} is the time of frame j2, the last frame so far.

t_{j1} is the time of minimum frame j1 computation which may be used.

N(x) is a formula for a normal distribution , σ the standard deviation and μ the mean value. The values in the distribution here are $P_i(t)$

In the formula for computing normal distribution and standard deviation, there is a limit on the "looking back" portion of the computation, so when a significant event occurs at frame j1, it may be reset.

This example uses normal distribution, since nothing is known about the QI at hand, but this need not be the only distribution function. For example, if the location is measured by an accelerometer, accelerometer readout errors and drifting errors over time may be used to construct a better distribution function. For example, an accelerometer distribution function may be different for high acceleration and for low acceleration, since in low values the distribution will be more spread out than in high values.

Mean μ_i and standard deviation σ_i are computed from a specific frame j1 until the current time (or just until the previous frame). This way a significant event in j2 can be an indication to reset j1 to j2, so the computations will not use frames before j2.

In another embodiment, one that doesn't use old data N=1, thus

$$C_i(t) = P_i(t_{j2})$$

There may be other methods to compute confidence. For example, GPS location algorithms (such as a Kalman filter) have their own way of computing confidence in the location, especially but not limited to, the mean of error in position.

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Exhibit 2042
Page #15

If current GPS data say location has changed 3 meters in the last 15 milliseconds, but accelerometer data shows no change, and assuming that it is known from past computations that speed is relative zero, then the GPS data may not be trusted, and confidence in the GPS QI for movement, is low.

In another example, it may be that the lens module 200 report image is in focus, however independent focus blur QI 244 image is not in focus. This can affect the confidence of QI in component 248, where lens module QI is computed.

One way to compute the confidence level that is dependent on other values can be expressed as

$$C_i(t) = P_i(t_{j2}) * N(P_i(t_{j2})) * \prod_{k=1}^{n} f_{ik}(t, QI(t)_k)$$

Where n is the number of available quality indicators, and i and k are running indices of the current quality indicator in question. The function f_{ik} denotes a function specific to these quality indicator correlations. If there is no correlation, the function will be regarded as the scalar 1. In the above example, i being QI in component 248, and one some value $1 \leq k \leq n; k \neq i$ where k is the index for QI in component 244, the value of f_{ik} can be 0.5 if $QI(t)_k < 0.7$. (In this example all QI and confidence levels are normalized to 1).

More examples of use and computation of confidence levels are now described, as other components and quality indicators are introduced.

Quality indicators use of previous frames data

The QI used in the total quality indicator, $QI\_ForTotal(t)_i$ employs the current value of $QI_i(t)$ but also the confidence level. The confidence level is a function of old values inherited by virtue of distribution formula N(t). So if the QI value is significantly different then expected, the QI value's confidence level may drop thereby bypassing a current QI that may be problematic.

Other ways to bypass or wholly or partially discount a current wayward QI value include, say, recognition of an object or face. The object may have been in the field of view one frame ago, with high confidence, say 1/30 of a second ago. Now the QI say the object is no longer there, perhaps with low $P_i(t)$ value. It is possible however that the object in fact is still there; just the recognition algorithm has misses the object. In this example the method may override the current QI with the previous one, at least for

a frame or two. More generally, old QI may be employed, particularly if its confidence level exceeds newer QI values, to generate an improved current QI value. One embodiment could be an average of the last few frames that had a high confidence level. The availability of old QI, errors in them via P_i, and the computation of C_i provide other methods for determining the value of $QI_i(t)$ e.g. for use in the total indicator. Algorithms of deep learning in neural networks, applied to confidence level data inter alia, may be used to better compute a current value of the quality indicator.

The following are examples of quality indicators and computational functionalities therefor, some or all of which may be provided as shown in Fig. 1:

Blur detection in component 244

Image blur can be of 2 types: focus or movement. In order to detect blur, quantify it and alert the user, its origin may be determined, so the user will have information on why the picture has inferior quality.

Blur caused by movement can be either due to the imaging device having moved (usually shake) and/or because the object which was photographed, moved. Both movements refer to the time the image is taken, and the shutter speed.

There are many algorithms for testing blur via frequency distribution in k space transformation such as DCT or other Fourier transform variants, for example prior art US20110096180. Other ways may be testing signal-to-noise ratio and searching for peak signal-to-noise ratio (PSNR). These algorithms can be used to create a blur quality indicator in component 244. This may assist in double checking the camera module 200 own focus assessment used in computation of QI in component 248. This is an advantageous step, since many quality indicators function better when they use previous frames, assuming they are all in focus. Retesting lens/camera module 200 own focus assessment may therefore be helpful.

Device movement indication based on accelerometer

Camera shake and movement can be quantified using an accelerometer 206 to measure device 3D acceleration, and integrating this over time to determine camera speed. The time of resetting the speed to zero is advantageous, since computation rounding and sensor errors may accumulate over time. This can be done in a few ways, for example: zero speed can be accessed when the device's acceleration

is minimal and back and forth over a long time (meaning device is around some point in space).

Device movement quality indicator 270

A person of skill in the field of photography would recognize the rule of thumb of focal length which may be reciprocal to the shutter speed if one wants to avoid camera shake due to hand shake. Component 200 provides these two parameters. Device/surrounding objects 4D position computation component 230 provides a position of the device as a function of time in some degree of confidence. Given an average hand jitter speed, one can set a threshold of the accepted speed of the device. For example, assume that for a shutter speed 1/15 of a second, speed may be less than 2 mm per second. 1 mm per second may provide excellent quality, 2 mm per second good quality and 2 cm per second very poor quality. Also a depth of field of the picture (DOF) can to be computed, using the focus distance, aperture of the lens and so on. If the depth of field is small and subject distance is short (macro photography), then movement of the device in the z axis may have a profound effect on quality but for most pictures and devices this is not the case.

For example, a scene with a baby taken from 50 cm away with a Nikon D300, 50mm focal length lens, aperture of 1.8, means the depth of field may be 2.7 cm. This means that the baby's face may not be fully in focus, and an inferior quality may be indicated. For the same configuration with f/8 aperture, an excellent quality may be indicated.

These computations may aid in determining the importance of movement in the Z exis to the value of the QI. Let a function $I_3(x)$ be the importance of the z axis. In one embodiment $I_3(x)$ may be an exponential function of some sort. The other axes, x and y, each have their own function. They can also have an exponential function, but with a different factor. Given the speed V_i in each direction as given by Device/surrounding objects 4D position computation component 230 the following can be computed:

$$QI_{\text{device motion}} = \frac{\sum_1^3 I_i(x_i) * V_i(t)}{3}$$

This is one possible method for computation of the base QI for device motion which is not intended to be limiting. Other embodiments may for example use confidence levels .

Component 200 may have some kind of image stabilization - sensor shift, lens stabilization or other. In this case the lens or sensor movement speed in these image stabilizations may be incorporated into the speed $V_i(t)$ in the formula above, for the QI to be correct. If this cannot be achieved with sufficient accuracy, the errors may be incorporated into this QI confidence level.

Object movement component 220

There are many methods of computing a motion vector. A block matching method may be used, or a gradient method, etc., or if the motion vector information is included in the input image signal in some form, this information may be utilized. The motion of the objects in the image frame is caused by the combination of two factors: real object movement and apparent movement caused by device movement.

When computing object speed in the image frame, one must subtract the device movement as computed in Device/surrounding objects 4D position computation component 230 from the object speed vector computed.

Methods of statistical pattern recognition may be used to fully recognize actual objects, such as a chair, a tree, a face or a car. If either the imaging device or object is moving, the identity of the object may be considered as a factor for the related confidence level; e.g. a car is much more likely to be moving during imaging than is a tree. Objects that are in the focus rectangle or area of interest are more significant to quality. If there is some movement at a far end region (or: at a significant distance), this may not greatly affect the quality indicator.

Object movement quality indicator 260

The data from component 220 can be used to create a quality indicator about blur due to subject movement. Normally, no movement would indicate excellent quality, and high-speed movement would indicate low quality.

Some objects are more important than others for a "good" picture. For example, often a face is more important than a chair. In order to compute this subject movement quality indicator, each object may be recognized and its movement vector and significance may be factored into the quality indicator dependent on this object's movement.

This computed data may be used to alert the user of motion of a specific object

that is considered important such as a face located in the center of an image.

One way of computation of this quality indicator, noted $QI_{\text{subject movement}}$, may be:

$$QI_{\text{subject movement}} = \frac{\sum_n A(x_i) * B(x_i) * S(x_i)}{n}$$

where A(x) – binary/multi-value indicator: is object inside or outside of; within, close to or far from, the focus/interest area rectangle

B(x) – importance of object to a picture

S(x) – object speed factor. A desired speed may be assigned a "high" value of 1, and 0 may be assigned for non-desired speed, with possible values in the middle. If the object is not to look blurred, it should be standing still relative to the current shutter speed. In that case a high value may be a slow speed. However, speed of an object may be desirable, e.g. to create the artistic impression of movement in the picture. In such a case, a high value may be assigned to a high speed.

Each factor is normalized to 1 in this example.

In one embodiment, if the motion vector's estimation quality is not sufficient, the camera module may be instructed to take a picture of a different exposure, say a shorter one, to measure the movement more precisely.

Computing object motion vector via corners detection

Algorithms such as Harris corner detection or its variants such as Shi Tomas corners detection may be used to determine whether the new image frame has more or less details than the previous frame. This determination may be combine with data from the gyroscope and accelerometer, if provided, to indicate whether or not the device has moved and/or the quality has severely deteriorated or increased.

The total quality indicator can be shown to the user in real time. Also, given a configurable "minimum" quality, an indication to the user can be made if the image total quality indicator is below this minimum.

In each region, the number of corners are counted and their center of gravity is computed. This is done for each region on each frame. The path of each center of gravity may then be followed over each region and a motion vector may thereby be computed. This may be feasible if the speed of the object is slow, since when the speed is quick, the corners may become blurred.

Image leveled to horizon quality indicator 271

The device gyroscope 205 and accelerometer 206, both of which may or may not be provided or available, may be used to compute device angle to the horizon, or how the device is leveled. Using this data, a quality indicator for "device leveled according to its orientation", is computed. For example, zero to 3 degrees is "excellent" quality, 3 to 5 degrees is "good" quality and so on. The user may hold the device either horizontally or vertically.

Camera focus quality indicator 248

As already mentioned, component 200 may send to component 248 data if component 200 is currently in focus, thereby to form an "excellent" quality indicator level for already-focused and "bad" quality indicator for still-focusing. Some camera modules may provide a focus estimation of their own. In such cases, this may be incorporated into or replace the quality indicator to provide more than a yes/no quality indication.

Furthermore, when the lens focuses, the frames received from the camera module are blurred, so the quality indicators related to the blur or object motion detection may be affected. In one implementation, the frames with low focus quality, may be removed when computing these quality indicators.

The lens/camera module 200 may also report its own focus confidence level.

Ideally, the focus indication sent by component 200 may coincide with component 244 QI. However, if it does not, say 244 indicates out of focus and 200 indicates in focus, this can be used to lower 248 confidence level, as demonstrated in the confidence level section.

Face detection quality indicator 249

This quality indicator indicates whether there is a face or faces and whether the face is smiling and/or looking at the camera. These indicators are passed on to a component 249 that analyzes the relevance of each of them, and yields a "total" quality value for this quality indicator.

Furthermore, one may determine if each face is smiling and/or looking at the camera. This data may be used for a quality indicator. For example, a scene in which over 90% of the faces are looking at the camera and 80% are smiling, equals

"excellent" face quality, while a scene in which none are looking and none are smiling indicates "bad" quality. Importance of the smiling/not smiling factor may be configured by the user via component 151.

Recognized face quality indicator 250

The device may have a list of configured faces to recognize and for each, pre-stored, their importance, say a user family member or work colleague. The data may also include specific face features. This is denoted as component 212,

Recognition of these faces in component 217 may be used by component 250 to produce a quality indicator based on importance as well as face quality, as before. Face importance may change over time by the user, or automatically, by learning user preferences. Confidence level may be computed similarly to 249. However, since it is a known person, more data may be obtained to enhance face recognition, such as face features from various angles, glasses, etc.

ISO level and camera hardware exposure data 245

Data such as ISO level, exposure time, focal length, and aperture and focus area is sent from the lens/camera module 200.

Depending on the device capabilities, such as maximum and minimum ISO, a quality indicator is produced. High ISO gives bad quality vs low ISO that gives a high quality indicator.

An optional exposure time quality indicator may be created, if a minimum exposure time is configured.

Lens focal length, aperture, focus distance, sensor type and model and depth of field 247

Depending on the device capabilities to change focal length and aperture, and given a known configured scene, a quality indicator may be provided to indicate how these parameters confront the given scene. For example, if the scene is a portrait and no face is detected by component 216 yields a bad QI.

Another example may be to use the sensor type and model (component 200) to yield a QI related to it – professional quality may yield good quality, when a poor quality, less costly component, yields poor quality.

Another embodiment for this QI is for testing background blurring, which may

sometimes actually be desired. For example, a scene with face recognition in 216 and a very small aperture, say f10 with focus distance in the hyper focal distance of component, 200 yields a bad quality, whereas a wide aperture, say f2.8 on these conditions, yields a good quality.

Under and overexposed quality indicator 243

Given configurable under and over thresholds (say 5% from pure white and 3% from pure black) the image frame given to the GPU is processed to compute areas that are underexposed and areas that are overexposed, e.g. similar to the zone system by Ansel Adams known in the field of photography.

The image frame is divided to a configurable number of areas; say 256 areas or 1024 areas. If a configurable number of percentages of pixels in an area (say 95%) are under or over exposed, the area is marked as under or over exposed. If the image sensor or operating system supports scene recognition/ scene mode, or object recognition is present, then the image sensor or operating system may be used in the evaluation of this quality indicator. For example, if the sun or a lamp is the brightest area in the image, they may be ignored. A point of bright light like the sun or a light bulb may be recognized by their pattern and may be ignored.

On another embodiment, the computation may be based on percentage of over and underexposed pixels in the image.

An image in which a large percentage is marked as over or under exposed, say over 40%, may get a bad over/under quality indicator. The same thresholding method may be used for the method of areas described before e.g. if over 40% of 256 areas are considered over exposed.

In another embodiment, pixel or areas inside or outside the focus area of the picture, as given by the lens/camera module 200, may have a different weight e.g. pixels or areas outside the focus area may have a lower affect on the quality indicator value.

This indicator may be used to indicate to the device that an High dynamic range (HDR) shot may be taken, and may be done either automatically or by notifying the user. Depending on the device, this may be done automatically by taking 2 pictures with different exposure settings.

Histogram quality indicator 241

The under/over quality indicator is a special case of a more general quality

indicator taking into account not just the histogram extreme, but also its central part, and also taking into account function structure and lens/camera module 200's available dynamic range.

This may be no reference, or a full reference (meaning in computation there is or there is not a reference to a preferred image), e.g. as in "The Design of High-Level Features for Photo Quality Assessment" by Yan Ke, Xiaoou Tang and Feng Jing.

Obstructing the lens quality indicator 246

Obstructing the lens may occur as a result of putting the finger partly or fully on the lens. For example, in bright conditions there may be a brown-red area in one corner. In dark conditions there may be no light at all in that location. Confidence in having recognized the situation may be enhanced as more frames are taken and the camera is moved around because if there is no obstruction on the lens, then the size of the area previously believed to be obstructed, would change significantly. There may be other objects causing obstruction that may be recognized. If they are recognized, their name can be used in feedback to the user, instructing him to remove the obstruction.

The amount of area and confidence may be used to give this quality indicator a degree/rating between "excellent" and "bad". For example, a finger blocking the lens may look on the image as a brownish area, probably in a corner of the frame. If the color were green, or it is an isolated area in the middle, the confidence would be low.

For the previous example (finger blocking appearing as a brownish area) the confidence is high.

Functionality 230 - Measuring distance to objects and creating a 4D environment measurement in real time e.g. by computation of Device/surrounding objects 4D position

As already described, the speed of the device in each direction may be measured and the distance traveled may be computed.

With the help of a GPS (e.g. based on unit 202 in Fig. 1) and/or step counting hardware (unit 203) accuracy in the range of a few dozen or a dozen or centimetres or even a single centimetre may be computed by a person skilled in the area for the device 3D relative position in time, thereby to yield 4D position.

This could be used by component 270 to yield better QI accuracy. By measuring the boundaries of an object in one location and again in another location, after moving the

device, the distance to the object may be measured (assuming the object is still). e.g. via parallax. Parallax is the apparent displacement of an object because of a change in the observer's point of view. Since cameras today easily achieve 8MP and more, typically, distance can be computed providing parameters such as lens focal length from component 200.

The 3D scene is built according to the input images from the image capturing unit 200 or any other sources. It can be based on multi-view image geometry techniques as introduced in "Multiple View Geometry in Computer Vision" by R. I. Hartley, A. Zisserman, Cambridge University Press (2004). The user may help by moving the device, either by walking a few steps or holding the device at full arm's length and swinging it pointing to the scene in question. However, a full 3D scene reconstruction is not required. A partial reconstruction, including scene change in time, may suffice.

Since the methods used to estimate the distance include integrated estimation, such as the distance is between 2 to 3 meters, a confidence level on each object can be constructed, similar to that described in the confidence level section. Also, since the device position itself may have errors or uncertainties, this also can be used in the confidence level of each object. This confidence level can then be used by quality indicators using this component data, so that they may implement their own confidence level.

Aesthetic rules quality indicators 240

In photography, there exist 'golden rules' for fitting of the composition to a section that may give a better aesthetic looking picture. There are heuristics that provide a means of achieving an eye-pleasing composition such as but not limited to: rule of thirds, golden triangle, golden spiral, shapes and lines, amputation avoidance, visual balance, and diagonal dominance.

For example, when taking a picture on a beach, the sea and sky meet on the horizon 'line'. To fit this rule, one must put the line either at one third-height or two-thirds height, thereby fitting the "rule of thirds". Either one is "correct". However, putting the line in the middle creates a composition that is considered less favorable to the viewer.

There are various methods of testing a fit to this rule, for example in "Photographic", *Volume 29 (2010), Number 2* "Optimizing Photo *Composition"* by L. G. Liu, R. J. Chen, L. Wolf, and D. Cohen-Or.

SnapAid, Ltd.
Exhibit 2042
Page #25

Further types of aesthetic models exist, based on chroma and exposure. Some may only give a non-reference quality indication without suggestion on coordinate change, as in the previous article. For example, a model is described in published US20130188866.

In another embodiment, multiple aesthetic qualities may be used.

This aesthetic QI, can be used for suggestion to the user to move from his current location to another location, together with the other quality indicators like under/over, it may be suggested to the user that he should move from his current location.

For example, a lamp in the street behind a person at night will not be good even if it fits a golden rule. Using data from Device/surrounding objects 4D position computation component 230 , we can assess distance to the person's face, say 2 meters, the distance to a lamp of 4 meters height 4 meters behind him, we can suggest to the user that he should move 2 steps to the right and one forward, tilting the device 20 degrees to the left if he wishes to achieve a better aesthetic QI score and a better total QI .

Functionality 242: Same scene quality indicator

One of the problems solved by certain embodiments of the present invention include a processing system to reduce or eliminate any need to take multiple pictures of the same scene, in order to get one good picture. If the proposed system negates this need, it may be helpful to indicate to the user he is taking unnecessary pictures that may only be a burden at a later stage.

This is a heuristic quality indicator, taking into account the time, location of device, angle of device, object movement in the device and other parameters, including but not limited to photographic parameters such as ISO and focal length. It may require these parameters of previous pictures taken in recent time. One possible implementation includes comparing each QI and its confidence data to the QI and associated confidence level of a previously recorded and saved image in the last say 5 seconds (configurable). If the data of each QI is the same, it may be concluded that it is a "bad" same scene quality indicator.

Functionality 400 and 401: Combining the separate quality indicators to total quality indicators

As described herein, some quality indicators and their confidence levels may depend on other QI data. For example, aesthetic QI computation 240 may need the data on image leveled to horizon from component 271. If confidence of 271 is very low, it may not use any other data. Some, but not limited to, examples of QI computation components can be seen in Fig 3.

Some quality indicators may be considered mandatory (unless specifically turned off) since they cause unacceptable blurring of the image:

- Focus
- Subject movement
- Device movement

Each device may have different hardware capabilities, thereby may not yield all the possible quality indicators or may not be able to process detail indicators, due to slow hardware. Some indicators may be ignored, if so configured by the user. One is then left with a set of indicators with which to compute.

A QI use in a total indicator may vary depending on situation. For example, "overexposed" quality indicator computation 243 may use data from object recognition in component 220. If the picture shows a sunset, it is likely that there will be over and underexposed areas, so in one embodiment it may be chosen to decrease importance of a sun-lit area and be less sensitive to overexposed QI in total computation. In another example, face exposure check may be increased if the face quality indicator suggests there is a face.

$$QI\_ForTotal(t)_i = QI(t)_i * \prod_{j=1}^{n} f_{ij}(t, QI(t)_j, C_j)$$

As can be seen in this formula, there is a dependency in the confidence level C_j before it is used, so data of QI with low confidence level may not be used. There may be other ways to formulate these connections. This may be employed as a general case.

$$QI_{total} = \sum_{i=1}^{n} QI\_ForTotal(t)_i * w(t, C_i)_i$$

$W(t)_i$ is the weight of each QI in the total and may be used to ignore QI if desired. $W(t)_i$ is dependent on time, since the user may choose to change it. $W(t)_i$ may be dependent on the confidence level. For example, if it is not desired to include below say 10% confidence, and w_i will be zero if $C_i < 0.1$.

There can be more than one type of total QI. For example, when computing total QI,

and only mandatory QI are chosen (QI's considered mandatory by an application or use case), a mandatory total QI may be provided. This QI may be used to decide when to take the picture, e.g. as described below. Another option is to use all the QI to get a sense of the picture quality as a whole. One can choose to formulate other total QI for other needs.

This formula is just one way to achieve a total indicator that is dependent on quality indicators, their confidence levels and their relations. The idea is to enable a general formula as quality indicators are added or removed in some embodiments, or for different implementations with various levels of complexity and interconnections between QI.

Functionality 502: Taking a picture at the proper time using total quality indicator

It may be that the picture will not be taken when the shutter is pressed, but only when a minimum threshold on specific QI with specific confidence level is met, when a total QI minimum threshold is met, or timeout occurs.

In such cases, the user may be shown, in real time, the QI values and possible suggestions, as indicated in 501. The data for the suggestions may be in 520, where QI and their confidence level may be used to show suggestions. Suggestions can be shown for QI how a value is no good, and confidence level beyond a threshold, say 0.7.

The QI indication user interface may be a number, and may even be an icon representing the quality. For example 5 smiles may each represent a quality indicator. Smiling face – good, crying face – bad, and so on.

A picture, once taken, may be shown to the user with its quality indicators, together with further suggestions on how to improve (for example "image is underexposed in a large area").

The image may not be saved or may be deleted if total QI or any other predetermined QI is below some quality indicator threshold. After the image is saved, the quality indicators may be saved along with the image (one embodiment may be to use the EXIF convention used in JPEG files) so that they may be used at a later stage, such as when a user wants to see the picture quality days after it was taken.

Suggestions to the user on how to improve the picture and component 520

The user may choose to get suggestions from the application on how to improve the next shot. The application may use the quality indicators and their correlation to answer that.

This can be done before a final picture is taken and/or after. The application may use quality indicators, their confidence level, importance and their correlation to respond. This is where the database with user suggestions, component 520, is used. The data in this can be a table of text to be shown for every given QI with a low value. In a more complex embodiment, it can be an SQL table being queried by multiple QI. An example of such a query on the database may be "select * from suggestion_table where QI1 > 0.9 and QI2 < 0.2" In this example QI1 can be module 200 ISO speed and QI2 can be device shake QI. The text retrieved can be "Try to use higher ISO speed to counteract device shake". Another example can be QI1 is QI of 248 and QI2 is of 244. The text retrieved can be "focus may be off. Focus one another subject and try again". There may be more complicated queries and embodiments, as a person in the field of databases can easily construct, given ideas from a person in the field of photography.

Text suggestions may be accompanied by an image explaining them. For example, if there is a low quality indicator of under/over exposure, the implication may be presented to the user via text, and overexposed areas on a picture preview may be painted in red, and underexposed areas may be in blue.

The confidence levels may aid in recognizing the best suggestion to be retrieved from a table of suggestions. For example, one my use a QI with confidence larger than 0.5, and show suggestions in the order of confidence levels. In another example, certain QIs may always have priority over others, even if their confidence levels are lower than others, as long as they are higher than, say 0.7.

Device movement gestures as indications for shutter press and delete

In another embodiment the user may not need to indicate he is ready by first pressing the shutter. In such cases, the device may assume that the user is ready at any time, or may wait for the device to be stationary hence pointed at some specific point in space for a certain configured time. For example, the user may pull the device out of his pocket and point it to the desired scene and hold it there for a duration of one second. The device hardware may detect that the device has been in motion for a few seconds,

and then held relatively still in space, pointing at a certain direction for say one second. The system may assume that the user pulls the device out of his pocket in order to take a picture, and thus goes into "take picture" mode, waiting for the quality indicators to be above the threshold, then taking the picture automatically. The user may hear the sound of a picture being taken and return the device to his pocket. A shake gesture (available in mobile OS like iOS) may be an indication to the device to delete the picture and start again. Alternatively, the shake gesture may be recognized via the device shake QI.

Using the system to evaluate video quality

A quality ranking system over continuous frames, may be used to evaluate a video comprising said frames. One method would be to compute and average the total quality indicators over frames.

In another embodiment a different set of weight functions w_i may be used e.g. different weights for different frames.

Further examples of system use are as follows:

a) If device shake QI is bad or camera focus QI is bad, disregard use of aesthetic QI in total computation, even if user has indicated he would like to give it a high priority. This will prevent the device from taking a picture when the picture is blurry. The suggestion to the user can be "Hold still" or "wait for focus". Once shake is low and focus is optimal, aesthetic QI in total quality computations may be used.

b) Quality reported by lens module 200 showing focus is fine, but independent focus blur QI 244 shows the lens is completely out of focus e.g. due to a poor lens module focus application. Therefore, confidence in the lens focus quality indicator drops and the weight of this indicator in the total quality may be reduced.

c) Device movement QI confidence level computed in 270 is low due to errors in computing location in Device/surrounding objects 4D position computation component 230, or to sub standard accelerometer, but face recognition system 216 with excellent confidence level, insists on a face for 10 frames straight. In this case, use face recognition QI in total QI even if shake in 270 is high, but only at a reduced percentage of, say, 50% of normal face QI.

d) Device movement importance is high if the depth of field of the lens is very small (for instance, in macro photography). For a quality picture, high confidence and low value of device shake QI in 270 are desirable, and their weight in the total QI may be high. User suggestions can be to hold still or use a flash, for example.

e) If previous frames indicated a face in the far left or right of the picture, and now there is no face, it is very possible that the picture has "half a face", amputation, so that may be the feedback to the user. For example, a face has been identified by the face recognizing QI, but attributes low confidence as a result. The system can alert the user of a possible face amputation.

f) A person may want to take a picture of, say, his spouse in a scenic location, or near a historic building. He may choose to give aesthetic QI and recognized person a high priority. This priority may enable to build a total QI with that weight, and to instruct the photographer to move a few meters to the right and left for example, to get an approximated 3D environment in Device/surrounding objects 4D position computation component 230. The device may measure all QI, especially the aesthetic QI, and may instruct the photographer on the best location to stand. This may depend on the place with the best total QI.

The system may if desired be implemented as a web-based system employing software, computers, routers and telecommunications equipment as appropriate.

Any suitable deployment may be employed to provide functionalities e.g. software functionalities shown and described herein. For example, a server may store certain applications, for download to clients, which are executed at the client side, the server side serving only as a storehouse. Some or all functionalities e.g. software functionalities shown and described herein may be deployed in a cloud environment. Clients e.g. mobile communication devices such as smartphones may be operatively associated with but external to the cloud.

It is appreciated that terminology such as "mandatory", "required", "need" and "must" refer to implementation choices made within the context of a particular implementation or application described herewithin for clarity and are not intended to be limiting since in an alternative implantation, the same elements might be defined as not mandatory and not required or might even be eliminated altogether.

It is appreciated that software components of the present invention including programs and data may, if desired, be implemented in ROM (read only memory) form

including CD-ROMs, EPROMs and EEPROMs, or may be stored in any other suitable typically non-transitory computer-readable medium such as but not limited to disks of various kinds, cards of various kinds and RAMs. Components described herein as software may, alternatively, be implemented wholly or partly in hardware and/or firmware, if desired, using conventional techniques. Conversely, components described herein as hardware may, alternatively, be implemented wholly or partly in software, if desired, using conventional techniques.

Included in the scope of the present invention, inter alia, are electromagnetic signals carrying computer-readable instructions for performing any or all of the steps or operations of any of the methods shown and described herein, in any suitable order including simultaneous performance of suitable groups of steps as appropriate; machine-readable instructions for performing any or all of the steps of any of the methods shown and described herein, in any suitable order; program storage devices readable by machine, tangibly embodying a program of instructions executable by the machine to perform any or all of the steps of any of the methods shown and described herein, in any suitable order; a computer program product comprising a computer useable medium having computer readable program code, such as executable code, having embodied therein, and/or including computer readable program code for performing, any or all of the steps of any of the methods shown and described herein, in any suitable order; any technical effects brought about by any or all of the steps of any of the methods shown and described herein, when performed in any suitable order; any suitable apparatus or device or combination of such, programmed to perform, alone or in combination, any or all of the steps of any of the methods shown and described herein, in any suitable order; electronic devices each including a processor and a cooperating input device and/or output device and operative to perform in software any steps shown and described herein; information storage devices or physical records, such as disks or hard drives, causing a computer or other device to be configured so as to carry out any or all of the steps of any of the methods shown and described herein, in any suitable order; a program pre-stored e.g. in memory or on an information network such as the Internet, before or after being downloaded, which embodies any or all of the steps of any of the methods shown and described herein, in any suitable order, and the method of uploading or downloading such, and a system including server/s and/or client/s for using such; a processor configured to perform any combination of the described steps or to execute any combination of the described modules; and hardware

which performs any or all of the steps of any of the methods shown and described herein, in any suitable order, either alone or in conjunction with software. Any computer-readable or machine-readable media described herein is intended to include non-transitory computer- or machine-readable media.

Any computations or other forms of analysis described herein may be performed by a suitable computerized method. Any step described herein may be computer-implemented. The invention shown and described herein may include (a) using a computerized method to identify a solution to any of the problems or for any of the objectives described herein, the solution optionally include at least one of a decision, an action, a product, a service or any other information described herein that impacts, in a positive manner, a problem or objectives described herein; and (b) outputting the solution.

The scope of the present invention is not limited to structures and functions specifically described herein and is also intended to include devices which have the capacity to yield a structure, or perform a function, described herein, such that even though users of the device may not use the capacity, they are if they so desire able to modify the device to obtain the structure or function.

Features of the present invention which are described in the context of separate embodiments may also be provided in combination in a single embodiment.

For example, a system embodiment is intended to include a corresponding process embodiment. Also, each system embodiment is intended to include a server-centered “view” or client centered “view”, or “view” from any other node of the system, of the entire functionality of the system , computer-readable medium, apparatus, including only those functionalities performed at that server or client or node.

Conversely, features of the invention, including method steps, which are described for brevity in the context of a single embodiment or in a certain order may be provided separately or in any suitable subcombination or in a different order. "e.g." is used herein in the sense of a specific example which is not intended to be limiting. Devices, apparatus or systems shown coupled in any of the drawings may in fact be integrated into a single platform in certain embodiments or may be coupled via any appropriate wired or wireless coupling such as but not limited to optical fiber, Ethernet, Wireless LAN, HomePNA, power line communication, cell phone, PDA, Blackberry GPRS, Satellite including GPS, or other mobile delivery. It is appreciated that in the

description and drawings shown and described herein, functionalities described or illustrated as systems and sub-units thereof can also be provided as methods and steps therewithin, and functionalities described or illustrated as methods and steps therewithin can also be provided as systems and sub-units thereof. The scale used to illustrate various elements in the drawings is merely exemplary and/or appropriate for clarity of presentation and is not intended to be limiting.

Claims:

1. A camera device comprising:

a housing;

a camera lens supported by the housing and configured to enable capture of image data and brightness data;

a motion detector configured to ascertain a degree of movement of the camera device;

a processor configured to:

enable the camera device to enter an automatic photo-capturing mode in which photographs are automatically taken at one or more intervals;

ascertain whether one or more conditions associated with motion data and the brightness data are satisfied; and

responsive to the one or more conditions being satisfied, adjust an exposure time of the camera device and take a photograph.

2. The camera device of claim 1, wherein the motion detector comprises an accelerometer to capture the motion data.

3. The camera device of claim 1, wherein the motion detector comprises a gyroscope to capture the motion data.

4. The camera device of claim 1, wherein the motion detector comprises both an accelerometer and a gyroscope to capture the motion data.

5. The camera device of claim 1, wherein the camera device is configured to:

receive an input to capture a photograph;

responsive to receiving the input, capture a cluster of photographs;

ascertain an amount of blur in each photograph; and

select a photograph based on an ascertained amount of blur.

6. The camera device of claim 2, wherein the motion data indicates a high degree of motion and the brightness data indicates that an environment of the camera is bright, the adjustment of the exposure time comprises using a faster exposure time.

7. The camera device of claim 2, wherein the motion data indicates a low degree of motion and the brightness data indicates that an environment of the camera is dark, the adjustment of the exposure time comprises using a slower exposure time.

8. A system comprising:
a camera device; and
a computing device configured to:
receive a captured cluster of photographs from the camera device;
select a photograph, from the captured cluster of photographs, with the least amount of ascertained motion blur in the received cluster of photographs

9. The system of claim 8, wherein the computing device is configured to send the selected photograph to a device.

10. The system of claim 8, wherein the camera device is further configured to:
receive the selected photograph from the computing device; and
store the selected photograph.

11. The system of claim 8, wherein the camera device is configured to capture the cluster of photographs using an automatic photo-capture mode.

12. The system of claim 8, wherein the camera device is configured to capture the cluster of photographs in response to a user input.

13. The system of claim 12, wherein the user input is a movement gesture of the camera device.

14. The system of claim 8, wherein the received captured cluster of photographs is received over a Wi-Fi or a Bluetooth communication link.

15. The system of claim 8, wherein the computing device is a remote server of a cloud-based service and the received captured cluster of photographs is received over the Internet.

16. The system of claim 10, wherein the motion blur is ascertained via a motion detector configured to ascertain a degree of movement of the camera device; where motion detector comprises a gyroscope to capture the motion data.

17. The system of claim 8, where user is notified on the quality of selected photograph; where quality is based on amount of motion blur in the selected photograph.

18. A computer-implemented method comprising:
enabling a camera to enter an automatic photo-capturing mode in which photographs are automatically taken at one or more intervals;
ascertaining whether one or more conditions associated with motion data and brightness data are satisfied; and

responsive to the one or more conditions being satisfied, adjusting an exposure time of the camera and taking a photograph.

19. The method of claim 18, further comprising:

receiving, with the camera, a user input to initiate the entering the automatic photo-capturing mode.

20. The method of claim 19, further comprising:

responsive to receiving the input, capturing a cluster of photographs;

ascertain an amount of blur in each photograph; and

select a photograph based on an ascertained amount of blur.

21. The method of claim 18, wherein the selected photograph has the least amount of ascertained blur.

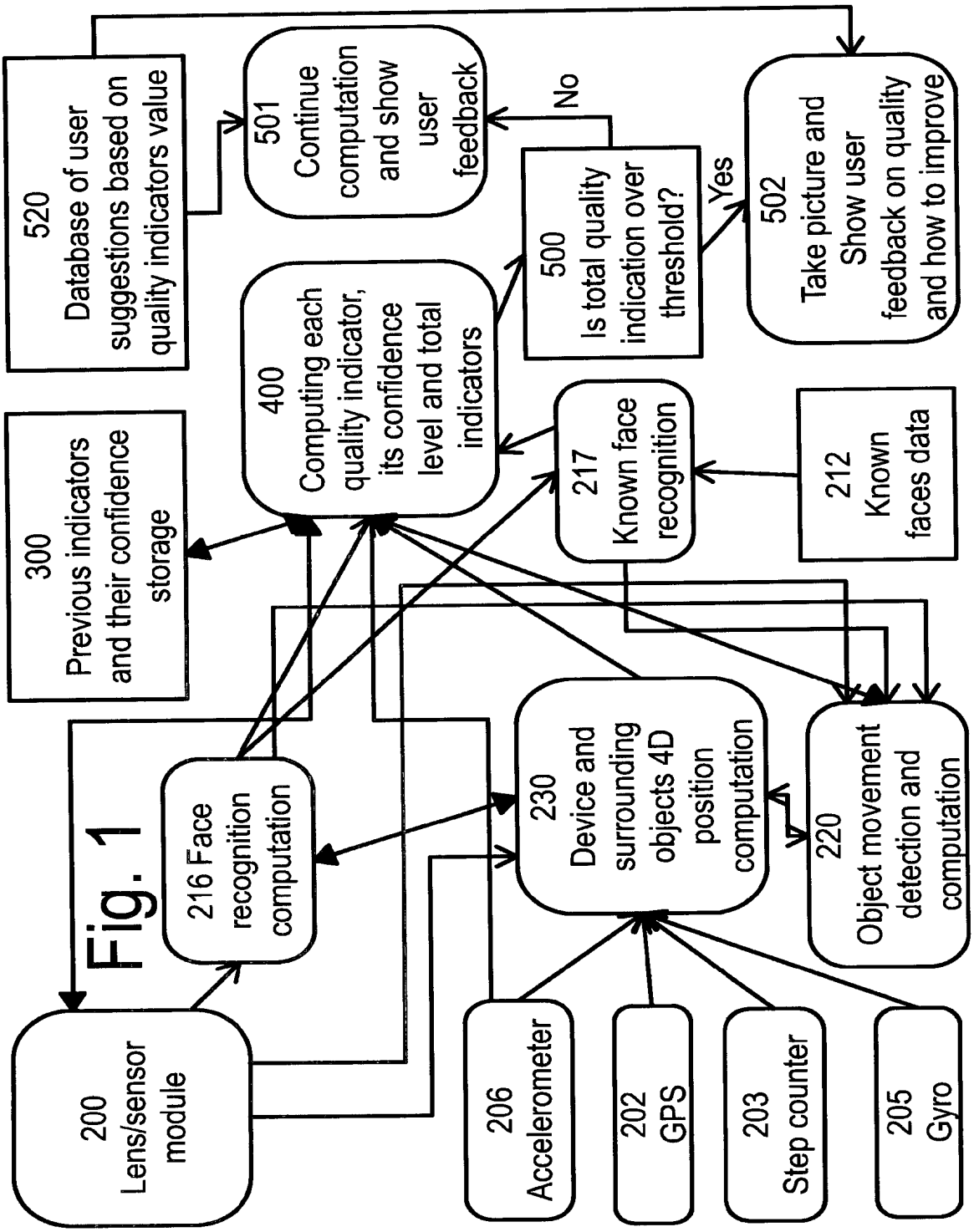

200 Lens/sensor module
206 Accelerometer
202 GPS
203 Step counter
205 Gyro
216 Face recognition computation
230 Device and surrounding objects 4D position computation
220 Object movement detection and computation
300 Previous indicators and their confidence storage
400 Computing each quality indicator, its confidence level and total indicators
217 Known face recognition
212 Known faces data
520 Database of user suggestions based on quality indicators value
501 Continue computation and show user feedback
No
500 Is total quality indication over threshold?
Yes
502 Take picture and Show user feedback on quality and how to improve

Fig. 1

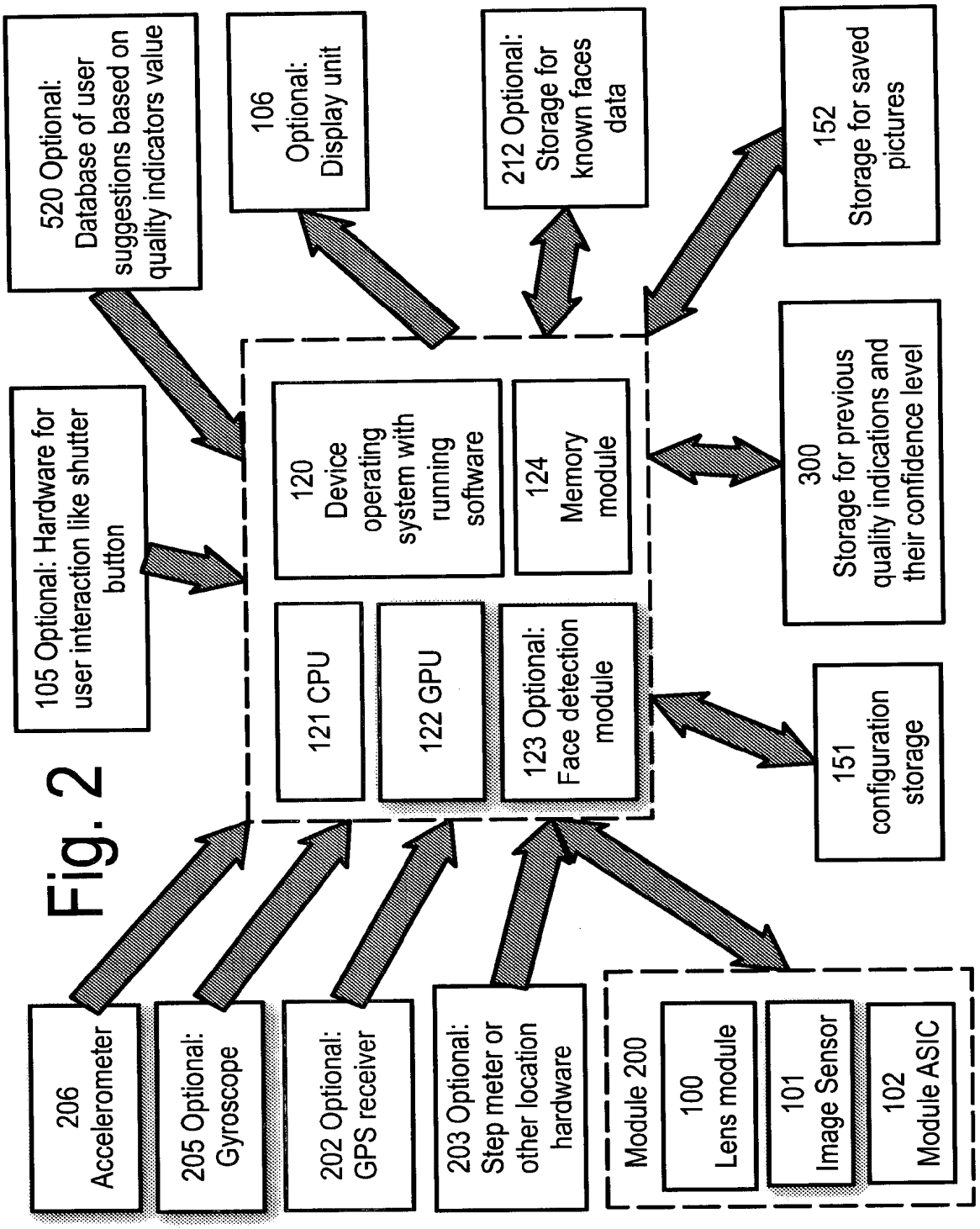

520 Optional: Database of user suggestions based on quality indicators value
106 Optional: Display unit
212 Optional: Storage for known faces data
152 Storage for saved pictures
105 Optional: Hardware for user interaction like shutter button
120 Device operating system with running software
124 Memory module
300 Storage for previous quality indications and their confidence level
121 CPU
122 GPU
123 Optional: Face detection module
151 configuration storage
206 Accelerometer
205 Optional: Gyroscope
202 Optional: GPS receiver
203 Optional: Step meter or other location hardware
Module 200
100 Lens module
101 Image Sensor
102 Module ASIC

Fig. 2

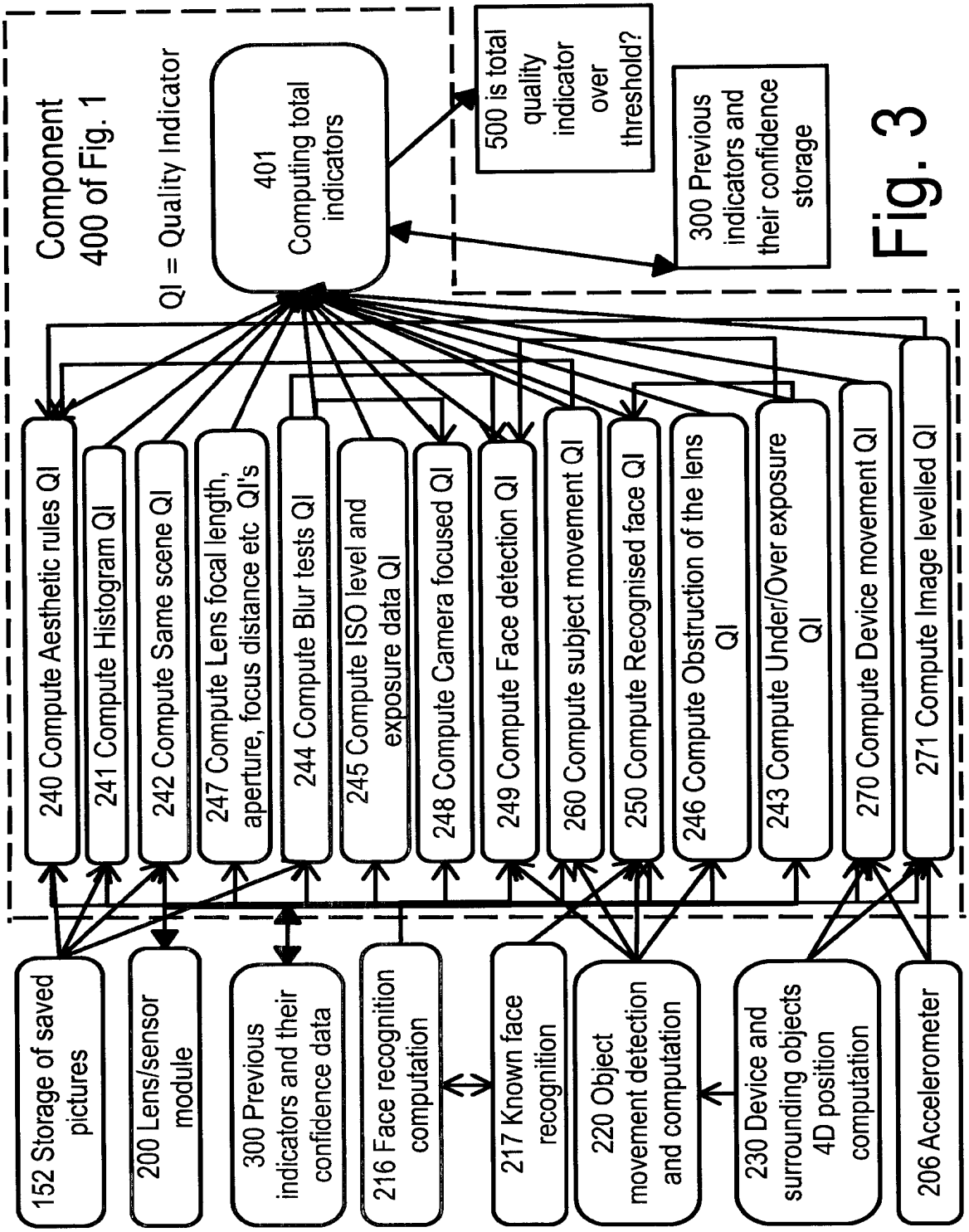
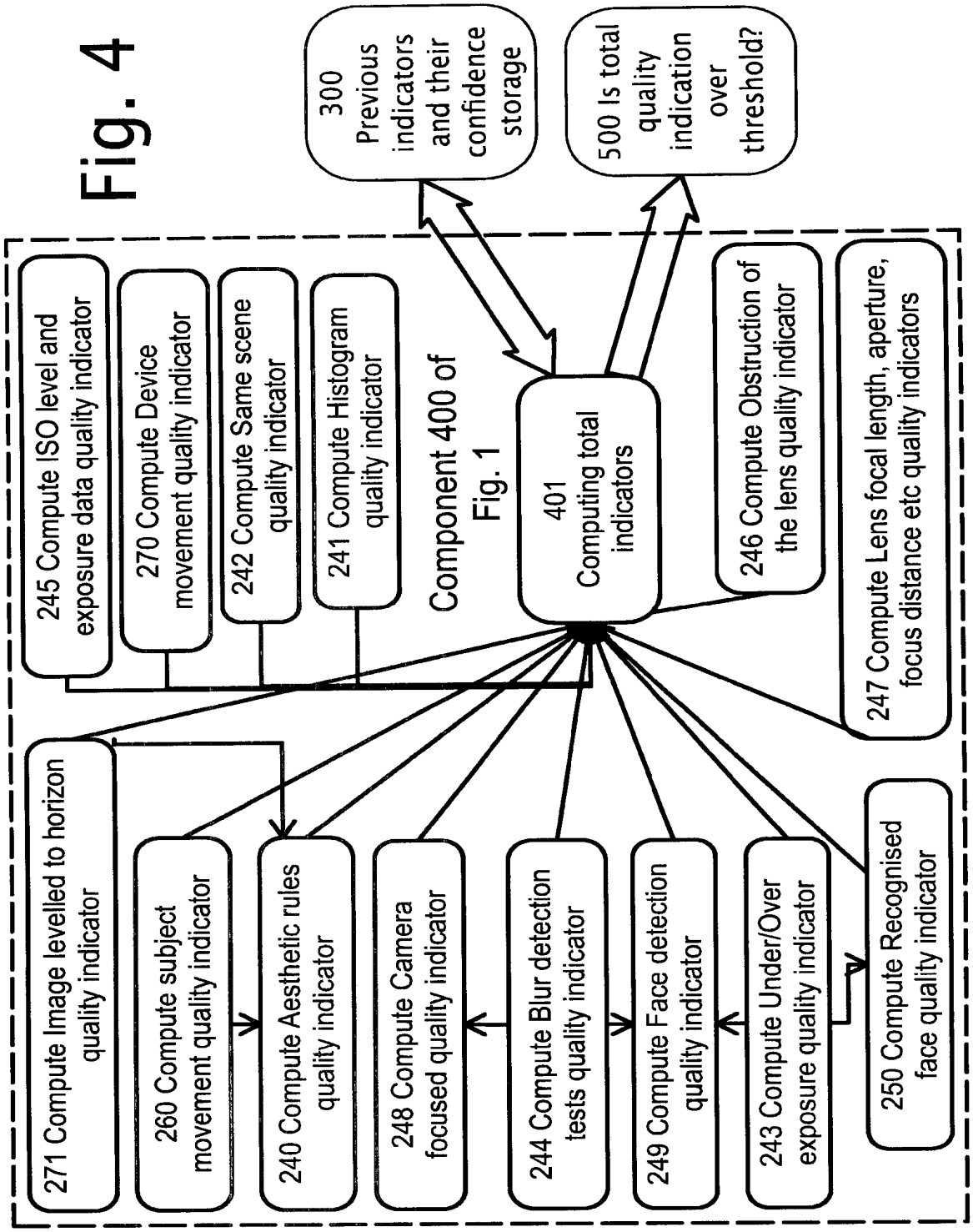

Component 400 of Fig. 1
QI = Quality Indicator
401 Computing total indicators
500 is total quality indicator over threshold?
300 Previous indicators and their confidence storage
240 Compute Aesthetic rules QI
241 Compute Histogram QI
242 Compute Same scene QI
247 Compute Lens focal length, aperture, focus distance etc QI's
244 Compute Blur tests QI
245 Compute ISO level and exposure data QI
248 Compute Camera focused QI
249 Compute Face detection QI
260 Compute subject movement QI
250 Compute Recognised face QI
246 Compute Obstruction of the lens QI
243 Compute Under/Over exposure QI
270 Compute Device movement QI
271 Compute Image levelled QI
152 Storage of saved pictures
200 Lens/sensor module
300 Previous indicators and their confidence data
216 Face recognition computation
217 Known face recognition
220 Object movement detection and computation
230 Device and surrounding objects 4D position computation
206 Accelerometer

Fig. 3

Fig. 4



SnapAid, Ltd.
Exhibit 2042
Page #41

ABSTRACT

A computerized method for computing the photo quality of a captured image in a device image acquisition system, comprising on-board combining of a plurality of quality indicators computed from said captured image and its previous image frames quality indicators and a confidence level for at least one of said quality indicators,; and using a processor to determine, based on said combining, whether photo quality is acceptable and taking differential action depending on whether quality is or is not acceptable.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SIVAN-001-US3
	Application Number	
Title of Invention	REAL TIME ASSESSMENT OF PICTURE QUALITY	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
Mr.	Ishay		SIVAN	

Residence Information (Select One) US Residency ● Non US Residency Active US Military Service

City	Tel Aviv	Country of Residence i	IL

Mailing Address of Inventor:

Address 1	12 Dissentchik Street
Address 2	
City	Tel Aviv
State/Province	
Postal Code	6935635
Country i	IL

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For further information see 37 CFR 1.33(a).

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Application Information:

Title of the Invention	REAL TIME ASSESSMENT OF PICTURE QUALITY		
Attorney Docket Number	SIVAN-001-US3	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	**Suggested Figure for Publication (if any)**	1

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Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	15/582722	2017-04-30
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/582722	Continuation of	15/007253	2016-01-27	9661226	2017-05-23

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SIVAN-001-US3
	Application Number	
Title of Invention	REAL TIME ASSESSMENT OF PICTURE QUALITY	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/007253	Continuation of	14/437105	2015-04-20	9338348	2016-05-10

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14/437105	a 371 of international	PCT/IL2013/050856	2013-10-22

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/IL2013/050856	Claims benefit of provisional	61/717216	2012-10-23

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/IL2013/050856	Claims benefit of provisional	61/759643	2013-02-01

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SIVAN-001-US3
	Application Number	
Title of Invention	REAL TIME ASSESSMENT OF PICTURE QUALITY	

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

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● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	SnapAid Ltd.		
Mailing Address Information For Applicant:			
Address 1	Sokolov 103A Street		
Address 2			
City	Tel Aviv	**State/Province**	
Country	IL	Postal Code	6228462
Phone Number		Fax Number	
Email Address			

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Address 2			
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Country i		Postal Code	
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First Name	Yehuda	Last Name	BINDER	Registration Number	73612

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Application Number	
Filing Date	
First Named Inventor	Ishay SIVAN
Art Unit	
Examiner Name	
Attorney Docket Number	SIVAN-001-US3

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8285067		2012-10-09	Steinberg , et al.	
	2	8244053		2012-08-14	Steinberg , et al.	
	3	7362354		2008-04-22	Lin; Qian	
	4	7688379		2010-03-30	Forman , et al.	
	5	8125557		2012-02-08	Chen , et al.	
	6	7920727		2011-05-04	Weng , et al.	
	7	8040382		2011-10-18	Kahn , et al.	
	8	7982770		2011-07-19	Kahn , et al.	

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	Application Number	
	Filing Date	
	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	9	8131118		2012-06-03	Jing , et al.	
	10	8330826		2012-11-12	Cerosaletti; Cathleen D. ; et al.	
	11	8081227		2011-20-12	Kim , et al.	
	12	9154692		2015-06-10	Son , et al.	

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	1	20130155474		2013-06-20	Roach; John J. ; et al.	
	2	20090263028		2009-10-22	Kwon; Sung Jin	
	3	20060017820		2006-01-26	Kim; Su-hyun	
	4	20060056835		2006-03-16	Poon; Eunice ; et al.	
	5	20090278958		2009-11-12	Bregman-Amitai; Orna ; et al.	

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	Application Number	
	Filing Date	
	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	6	20070195174		2007-08-23	Oren; Halpern	
	7	20120133816		2012-05-31	Imai; Francisco	
	8	20100290673		2010-11-18	MIYASHITA; Naoyuki	
	9	20130058561		2013-03-07	Cheng; Chia-Ming	
	10	20130038771		2013-02-14	Brunner; Ralph ; et al.	
	11	20140050367		2014-02-20	CHEN; Francine ; et al.	
	12	20130050507		2013-02-28	Syed; Zia ; et al.	
	13	20120182447		2012-07-19	Gabay; Chanan	
	14	20130063538		2013-03-14	Hubner; Paul ; et al.	
	15	20120086847		2012-04-12	Foster; Brett	
	16	20100026872		2010-02-04	JIANG; JIN-LIN	

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	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

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Attorney Docket Number	SIVAN-001-US3

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	Attorney Docket Number	SIVAN-001-US3

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G03B 17/38 *(2006.01)*

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PCT/US2014/034851

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(54) CAMERA DEVICE COMPRISING A PROCESSOR FOR IMAGE BLUR AVOIDANCE

KAMERA-GERÄT MIT EINEM PROZESSOR FÜR BILDUNSCHARFE VERMEIDUNG

CAMERA COMPRENANT UN PROCESSEUR POUR ÉVITER LE FLOU DANS LES IMAGES

(84) Designated Contracting States:
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(73) Proprietor: **Microsoft Technology Licensing, LLC**
Redmond, WA 98052 (US)

(72) Inventor: **LAMMERS, Michael, J.**
Redmond, WA 98052-6399 (US)

(74) Representative: **Driver, Virginia Rozanne**
Page White & Farrer
Bedford House
John Street
London WC1N 2BF (GB)

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Exhibit 2042
Page #62

Description

BACKGROUND

[0001] Photos can end up being blurry because of a number of reasons including that the photographer is moving at the time that the photos are taken. This is particularly the case with cameras that can be worn by the photographer, e.g., head-mounted or body-mounted cameras.

SUMMARY

[0002] This Summary is provided to introduce a selection of concepts in a simplified form that are further described below in the Detailed Description. This Summary is not intended to identify key features or essential features of the claimed subject matter.

[0003] Various embodiments provide a camera, such as a wearable or otherwise mountable camera, that is configured to take a cluster of photographs and use image processing techniques to select a photograph with a lesser amount of blur than other photographs in the cluster.

[0004] According to an aspect there is provided a camera device comprising: a housing; a camera lens supported by the housing and configured to enable capture of image data; wherein the camera device is configured to: receive input to capture a photograph; responsive to receiving said input, capture a cluster of photographs; transmit the captured cluster of photographs to a remote computing device for ascertaining an amount of blur in each photograph, and selecting a photograph based on an ascertained amount of blur; and receive said selected photograph.

[0005] In yet other embodiments, a camera includes one or more of a gyroscope or accelerometer. The gyroscope and/or accelerometer are utilized to ascertain the camera's motion. Motion data associated with the camera's motion is utilized to ascertain when to take an automatic photograph.

Various other embodiments provide a camera that is configured to adjust exposure time, i.e., shutter time, based on input associated with the camera's motion and the level of brightness in the camera's environment. Examples of conventional camera devices are disclosed in US2004/0066981 A1, US2006/0012699 A1, and US2013/0057713 A1.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] The detailed description references the accompanying figures. In the figures, the left-most digit(s) of a reference number identifies the figure in which the reference number first appears. The use of the same reference numbers in different instances in the description and the figures may indicate similar or identical items.

FIG. 1 is an example camera device in accordance with one or more embodiments.

FIG. 2 illustrates an example camera device in accordance with one or more embodiments.

FIG. 3 illustrates an example camera device in accordance with one or more embodiments.

FIG. 4 is a flow diagram that describes steps in a method in accordance with one or more embodiments.

FIG. 5 is a flow diagram that describes steps in a method in accordance with one or more embodiments.

FIG. 6 is a flow diagram that describes steps in a method in accordance with one or more embodiments.

DETAILED DESCRIPTION

Overview

[0007] Various embodiments provide a camera, such as a wearable or otherwise mountable camera, that is configured to take a cluster of photographs and use image processing techniques to select a photograph with a lesser amount of blur than other photographs in the cluster. The camera can be worn in any suitable location. For example, the camera can be worn on a user's head such as, a way of example and not limitation, a hat-mounted camera, glasses-mounted camera, headband-mounted camera, helmet-mounted camera, and the like. Alternately or additionally, the camera can be worn on locations other than the user's head. For example, the camera can be configured to be mounted on the user's clothing. Alternately or additionally, the camera can be mounted on various objects, such as objects that move, e.g., vehicles, animals, conveyances and the like.

[0008] In yet other embodiments, a camera includes one or more of a gyroscope or accelerometer. The gyroscope and/or accelerometer are utilized to ascertain the camera's motion. Motion data associated with the camera's motion is utilized to ascertain when to take an automatic photograph. For example, a motion threshold may be set and, when the camera is taking pictures in an automatic mode, when the motion threshold is satisfied, the camera may begin taking pictures. Any suitable type of motion threshold can be utilized, as will become apparent below.

[0009] Various other embodiments provide a camera that is configured to adjust exposure time, i.e., shutter time, based on input associated with the camera's motion and the level of brightness in the camera's environment. For example, the camera can include one or more of an accelerometer or gyroscope to capture motion data associated with the camera. The motion data, together with information associated with the level of brightness in the camera's environment can be utilized to adjust the camera's shutter speed to achieve a desirable trade-off between motion blur and brightness.

SnapAid, Ltd.
Exhibit 2042
Page #63

[0010] Various other embodiments provide a camera that is mountable on a user's clothing or other objects. The camera is designed to be unobtrusive and user-friendly insofar as being mounted away from the user's face so as not to interfere with their view. In at least some embodiments, the camera includes a housing and a clip mounted to the housing to enable the camera to be clipped onto the user's clothing. The camera is designed to be lightweight with its weight balanced in a manner that is toward the user when clipped to the user's clothing.

[0011] In the discussion that follows, a section entitled "Example Environment" describes an example environment in which the various embodiments can be utilized. Following this, a section entitled "Duel Encoding" describes an embodiment in which captured image data can be dual encoded in accordance with one or more embodiments. Next, a section entitled "Photo Log" describes an example photo log in accordance with one or more embodiments. Following this, a section entitled "Taking Photo Clusters and Selecting Images Based on Image Processing" describes various embodiments in which clusters of photos can be taken and selected based on image processing. Next, a section entitled "Using an Accelerometer and/or Gyroscope to Determine Camera Motion" describes various embodiments in which camera motion can be determined and processed. Following this, a section entitled "Using Motion Data and Brightness to Adjust Camera Shutter Time" describes how motion data and brightness can be used to adjust a camera's shutter time in accordance with one or more embodiments.

[0012] Consider now an example environment in which various embodiments can be practiced.

Example Environment

[0013] FIG. 1 illustrates a schematic of a camera device 100 in accordance with one or more embodiments. The camera device 100 includes a lens 102 having a focal length that is suitable for covering a scene to be pictured. In one embodiment, a mechanical device may be included with the lens 102 to enable auto or manual focusing of the lens. In another embodiment, the camera device 100 may be a fixed focus device in which no mechanical assembly is included to move the lens 102. A sensor 104 having a sensing surface (not shown) is also included to convert an image formed by the incoming light on the sensing surface of the sensor 104 into a digital format. The sensor 104 may include a charge-coupled device (CCD) or complementary metal oxide semiconductor (CMOS) image sensor for scanning the incoming light and creating a digital picture. Other technologies or devices may be used so long as the used device is capable of converting an image formed by the incoming light on a sensing surface into the digital form. Typically, these image detection devices determine the effects of light on tiny light sensitive devices and record the changes in a digital format.

[0014] It should be appreciated that the camera device 100 may include other components such as a battery or power source and other processor components that are required for a processor to operate. However, to avoid obfuscating the teachings, these well-known components are being omitted. In one embodiment, the camera device 100 does not include a view finder or a preview display. In other embodiments, however, a preview display may be provided. The techniques described herein can be used in any type of camera, and are particularly effective in small, highly portable cameras, such as those implemented in mobile telephones and other portable user equipment. Thus, in one embodiment, the camera device 100 includes hardware or software for making and receiving phone calls. Alternately, the camera device 100 can be a dedicated, stand-alone camera.

[0015] In at least some embodiments, the camera device 100 further includes a motion detector 108 that can include an accelerometer and/or a gyroscope. The accelerometer is used for determining the direction of gravity and acceleration in any direction. The gyroscope may also be used either in addition to the accelerometer or instead of the accelerometer. The gyroscope can provide information about how the rotational angle of the camera device 100 changes over time. Any other type of sensor may be used to detect the camera's motion. Using the rotational angle, an angle of rotation of the camera device 100 may be calculated, if the camera device 100 is rotated. Further included is an input/output (I/O) port 114 for connecting the camera device 100 to an external device, including a general purpose computer. The I/O port 114 may be used for enabling the external device to configure the camera device 100 or to upload/download data. In one embodiment, the I/O port 114 may also be used for streaming video or pictures from the camera device 100 to the external device. In one embodiment, the I/O port may also be used for powering the camera device 100 or charging a rechargeable battery (not shown) in the camera device 100.

[0016] The camera device 100 may also include an antenna 118 that is coupled to a transmitter/receiver (Tx/Rx) module 116. The Tx/Rx module 116 is coupled to a processor 106. The antenna 118 may be fully or partly exposed outside the body of the camera device 100. However, in another embodiment, the antenna 118 may be fully encapsulated within the body of the camera device 100. The Tx/Rx module 116 may be configured for Wi-Fi transmission/reception, Bluetooth transmission/reception or both. In another embodiment, the Tx/Rx module 116 may be configured to use a proprietary protocol for transmission/reception of the radio signals. In yet another embodiment, any radio transmission or data transmission standard may be used so long as the used standard is capable of transmitting/receiving digital data and control signals. In one embodiment, the Tx/Rx module 116 is a low power module with a transmission range of less than ten feet. In another embodiment, the Tx/Rx module 116 is a low power module with a transmission range of less than five feet. In other embodiments, the

SnapAid, Ltd.
Exhibit 2042
Page #64

transmission range may be configurable using control signals received by the camera device 100 either via the I/O port 114 or via the antenna 118.

[0017] The camera device 100 further includes a processor 106. The processor 106 is coupled to the sensor 104 and the motion detector 108. The processor 106 may also be coupled to storage 110, which, in one embodiment, is external to the processor 106. The storage 110 may be used for storing programming instructions for controlling and operating other components of the camera device 100. The storage 110 may also be used for storing captured media (e.g., pictures and/or videos). In another embodiment, the storage 110 may be a part of the processor 106 itself.

[0018] In one embodiment, the processor 106 may include an image processor 112. The image processor 112 may be a hardware component or may also be a software module that is executed by the processor 106. It may be noted that the processor 106 and/or the image processor 112 may reside in different chips. For example, multiple chips may be used to implement the processor 106. In one example, the image processor 112 may be a Digital Signal Processor (DSP). The image processor can be configured as a processing module, that is a computer program executable by a processor. In at least some embodiments, the processor 112 is used to process a raw image received from the sensor 104 based, at least in part, on the input received from the motion detector 108. Other components such as Image Signal Processor (ISP) may be used for image processing. In one or more embodiments, the image processor 112 includes a blur detection module 112a that is configured to detect blurring that may occur in a captured image, such as a photograph, because of movement of the camera and/or subject. Any suitable type of blur detection techniques can be utilized. For example, suitable techniques are described in (1) Tong et al., Blur Detection for Digital Images Using Wavelet Transform, Multimedia and Expo, 2004, IEEE International Conference on June 27-30, 2004, Volume 1, pgs. 17-20; and (2) U.S. Patent No. 7,257,273, to name just a few. The camera is configured, in some embodiments, to take a cluster of photographs and use image processing techniques, such as blur detection, to select a photograph with a lesser amount of blur than other photographs in the cluster.

[0019] In one embodiment, the storage 110 is configured to store both raw (unmodified image) and the corresponding modified image.

[0020] A processor buffer (not shown) may also be used to store the image data. The pictures can be downloaded to the external device via the I/O port 114 or via the wireless channels using the antenna 118. In one embodiment, both unmodified and modified images are downloaded to the external device when the external device sends a command to download images from the camera device 110. In one embodiment, the camera device 100 may be configured to start capturing a series of images at a selected interval.

[0021] In one embodiment, a raw image from the sensor 104 is inputted to an image processor (such as an ISP) for image processing or blur detection. After image processing is applied to the image outputted by the image processor, the modified image is encoded. The image encoding is typically performed to compress the image data.

[0022] In an example embodiment, the camera device 100 may not include the components for processing the image captured by the sensor 104. Instead, the camera device 100 may include programming instructions to transmit the raw image after extracting the image from the sensor 104 to a cloud based processing system that is connected to the camera device 100 via the Internet or a local area network. The cloud based system is configured to receive the raw image and process the image or images as described above and below. The encoded image is then either stored in a selected cloud based storage or the image is sent back to the camera device 100 or to any other device according to a user configuration. The use of a cloud based image processing system can reduce a need for incorporating several image processing components in each camera device, thus making a camera device lighter, more energy efficient and cheaper.

[0023] In another example embodiment, instead of a cloud based image processing, the camera device 100 may send either a raw image or the image processed through an image processor to another device, e.g., a mobile phone or a computer. The image may be transmitted to the mobile phone (or a computer) for further processing via Wi-Fi, Bluetooth or any other type of networking protocol that is suitable for transmitting digital data from one device to another device. After the mobile device receives the image or images, according to one or more embodiments described herein, the produced image may be saved to local storage on the device, transferred for storage in a cloud based storage system, or transmitted to another device, according to user or system configurations.

[0024] In one embodiment, the native image processing system in the camera device 100 may produce images and/or videos in a non-standard format. For example, a 1200x1500 pixel image may be produced. This may be done by cropping, scaling, or using an image sensor with a non-standard resolution. Since methods for transforming images in a selected standard resolution are well-known, there will be no further discussion on this topic.

[0025] Various embodiments described above and below can be implemented utilizing a computer-readable storage medium that includes instructions that enable a processing unit to implement one or more aspects of the disclosed methods as well as a system configured to implement one or more aspects of the disclosed methods. By "computer-readable storage medium" is meant all statutory forms of media. Accordingly, non-statutory forms of media such as carrier waves and signals per se

SnapAid, Ltd.
Exhibit 2042
Page #65

are not intended to be covered by the term "computer-readable storage medium".

[0026] As noted above, camera device 100 can assume any suitable form of camera, such as a wearable or mountable camera. The camera can be worn in any suitable location relative to a user. For example, the camera can be worn on a user's head such as, by a way of example and not limitation, a hat-mounted camera, glasses-mounted camera, headband-mounted camera, helmet-mounted camera, and the like. Alternately or additionally, the camera can be worn on locations other than the user's head. For example, the camera can be configured to be mounted on the user's clothing or other items carried by a user, such as a backpack, purse, briefcase, and the like. Alternately or additionally, the camera can be mounted on various objects, such as objects that move, e.g., vehicles, animals, conveyances and the like.

[0027] In the example provided just below, a wearable camera is described in the context of a camera that is mountable on the user's clothing. It is to be appreciated and understood, however, that other types of non-clothing mountable or wearable cameras can be utilized without departing from the spirit and scope of the claimed subject matter.

[0028] Moving on to FIGS. 2 and 3, consider the following. FIG. 2 illustrates an example camera device 200 in a front elevational view, while FIG. 3 illustrates the camera device 200 in a side elevational view. The camera device 200 includes a housing 202 that contains the components described in FIG. 1. Also illustrated is a camera lens 204 (FIG. 2) and a fastening device 300 (FIG. 3) in the form of a clip that operates in a manner that is similar to a clothespin. Specifically, the fastening device 300 includes a prong 302 with a body having a thumb-engageable portion 304. The body extends along an axis away from the thumb-engageable portion 304 toward a distal terminus 306. A spring mechanism, formed by the body or separate from and internal relative to the body, enables prong 302 to be opened responsive to pressure being applied to the thumb-engageable portion 304. When opened, a piece of clothing can be inserted into area 308. When the thumb-engageable portion 304 is released, the clothing is clamped in place by the prong 302 thereby securely mounting the camera device on a piece of clothing. For example, the camera device can be mounted, as described above, on a necktie, blouse, shirt, pocket, and the like.

[0029] In addition, camera device 200 can include a number of input buttons shown generally at 310. The input buttons can include, by way of example and not limitation, an input button to take a still picture and an input button to initiate a video capture mode. It is to be appreciated and understood that the various input buttons can be located anywhere on the camera device 200.

[0030] It may be noted that even though the camera device 200 is shown to have a particular shape, the camera device 100 can be manufactured in any shape shape and size suitable and sufficient to accommodate the above described components of the camera device 100. The housing 202 of the camera device may be made of a metal molding, a synthetic material molding or a combination thereof. In other embodiments, any suitable type of material may be used to provide a durable and strong outer shell for typical portable device use.

[0031] In addition, the fastening device 300 can comprise any suitable type of fastening device. For example, the fastening device may be a simple slip-on clip, a crocodile clip, a hook, a Velcro or a magnet or a piece of metal to receive a magnet. The camera device 200 may be affixed permanently or semi-permanently to another object using the fastening device 300.

[0032] Generally, any of the functions described herein can be implemented using software, firmware, hardware (e.g., fixed logic circuitry), or a combination of these implementations. The terms "module", "functionality", "component" and "logic" as used herein generally represent software, firmware, hardware, or a combination thereof. In the case of a software implementation, the module, functionality, or logic represents program code that performs specified tasks when executed on a processor (e.g., CPU or CPUs). The program code can be stored in one or more computer readable memory devices. The features of the techniques described below are platform-independent, meaning that the techniques may be implemented on a variety of commercial computing platforms having a variety of processors.

[0033] For example, the camera device 200 may include a computer-readable medium that may be configured to maintain instructions that cause the camera's software and associated hardware to perform operations. Thus, the instructions function to configure the camera's software and associated hardware to perform the operations and in this way result in transformation of the software and associated hardware to perform functions. The instructions may be provided by the computer-readable medium to the camera device through a variety of different configurations.

[0034] One such configuration of a computer-readable medium is signal bearing medium and thus is configured to transmit the instructions (e.g., as a carrier wave) to the camera device, such as via a network. The computer-readable medium may also be configured as a computer-readable storage medium and thus is not a signal bearing medium. Examples of a computer-readable storage medium include a random-access memory (RAM), read-only memory (ROM), an optical disc, flash memory, hard disk memory, and other memory devices that may use magnetic, optical, and other techniques to store instructions and other data.

Dual Encoding

[0035] In one or more embodiments, the camera device's processor 106 (FIG.1) is configured to encode image data at different levels of resolution. For example, the camera device can encode image data at a low level

SnapAid, Ltd.
Exhibit 2042
Page #66

of resolution and at a high level of resolution as well. Any suitable levels of resolution can be utilized. In at least some embodiments, the low level of resolution is Quarter-VGA (e.g., 320 x 240) and the high level of resolution is720p (e.g., 1280 x 720).

[0036] Encoding image data at different resolutions levels can enhance the user's experience insofar as giving the user various options to transfer the saved image data. For example, at lower resolution levels, the captured image data can be streamed to a device such as a smart phone. Alternately or additionally, at higher resolution levels, when the user has Wi-Fi accessibility, they can transfer the image data to a network device such as a laptop or desktop computer.

[0037] Having considered a dual encoding scenario, consider now aspects of a photo log that can be constructed using the principles described above.

Photo Log

[0038] Photo log refers to a feature that enables a user to log their day in still photos at intervals of their own choosing. So, for example, if the user wishes to photo log their day at every 3 minutes, they can provide input to the camera device so that every 3 minutes the camera automatically takes a still photo and saves it. At the end of the day, the user will have documented their day with a number of different still photos.

[0039] Having considered an example photo log feature, consider now how this feature can be used in connection with the camera embodiments described below.

Taking Photo Clusters and Selecting Images Based on Image Processing

[0040] In one or more embodiments, a camera such as the one described above, can capture clusters of photographs. Capturing the clusters of photographs can be performed in different ways.

[0041] For example, in at least some embodiments clusters of photographs can be captured automatically in connection with a feature such as the photo log feature described just above. As an example, consider a situation in which the user sets the camera to automatically take a photograph every three minutes. When the time comes to take a photograph, instead of taking just one photograph at the three-minute point, the camera can take a cluster of photographs. Any suitable number of photographs can constitute a cluster, e.g., 5, 10, 15, or more photographs.

[0042] Alternately or additionally, instead of capturing a cluster of photographs in connection with an automatic photo-capturing mode, clusters of photographs can be captured when the user physically takes a photograph. For example, the user may point the camera in a certain direction and press a record button to take a photograph. Responsive to this input, the camera may capture a cluster of photographs.

[0043] In one or more embodiments, when a cluster of photographs is captured, whether through an automatic photo-capturing mode or in response to a user manually taking the photograph, image processing techniques can be utilized to ascertain an amount of blur in each photograph. Any suitable image processing techniques can be utilized.

[0044] For example, blur detection techniques can be utilized that detect blur within digital images using wavelet transform and/or Cepstrum analysis blur detection techniques. These techniques are able to detect motion blur and/or out-of-focus blur. Specifically, using these techniques portions of a photograph or digital image are accessed and processed to determine if the image is blurred based on a wavelet transform blur detection process and/or a Cepstrum analysis blur detection process. Using this approach, the wavelet transform blur detection process includes wavelet transforming at least the portion of the digital image to produce a plurality of corresponding different resolution levels. Each resolution level includes a plurality of bands. The wavelet transform blur detection process also includes generating at least one edge map for each of the resolution levels, and detecting blur in the digital image based on the resulting edge maps.

[0045] In certain implementations, for example, the Cepstrum analysis blur detection process includes dividing the image into a plurality of parts and determining a Cepstrum for each of the parts. In certain implementations, the Cepstrum analysis blur detection process also includes blurring at least one boundary within the image and calculating an elongation of each resulting binarized Cepstrum image. The technique may further include determining that the image includes motion blur and/or out-of-focus blur based on the calculated elongations. An example technique for performing this analysis is described in US Patent No. 7,257,273.

[0046] Once the blur analysis has been conducted on each of the images or photographs of the cluster, an image or photograph can be selected having the least amount of blur.

[0047] It is to be appreciated and understood that the image processing, i.e. blur analysis, can occur on board the camera. Alternately or additionally, the image processing can occur on a computing device remote from the camera, e.g., a user's personal computing device, a remote server, a cloud service, and the like.

[0048] The above-described approach can be particularly useful in scenarios where the camera is prone to movement. For example, in the context of a wearable camera, much of the time the user may be moving around. In these instances, the user's movement may not be uniform. For example, the user may be walking, stop for a moment, and then continue walking. If the camera is in automatic photo-capturing mode and one of the instances to take a photograph occurs during this time, taking a cluster of photographs during this nonuniform movement increases the chance that a non-blurred pho-

SnapAid, Ltd.
Exhibit 2042
Page #67

tograph will be captured.

[0049] FIG. 4 is a flow diagram that describes steps in a method in accordance with one or more embodiments. The method can be performed in connection with any suitable hardware, software, firmware, or combination thereof. In at least some embodiments, aspects of the method can be performed by a suitably-configured camera, such as the one described above. Alternately or additionally, aspects of the method can be performed by a suitably-configured computing device, examples of which are provided above.

[0050] Step 700 receives input to capture a photograph. This step can be performed in any suitable way. For example, in at least some embodiments, the input to capture the photograph can be received in connection with an automatic photo-capturing mode. Alternately or additionally, the input received can be generated based on a user's input to physically capture a photograph.

[0051] Responsive to receiving the input to capture photograph, step 702 captures a cluster of photographs. Any suitable number of photographs can constitute a cluster of photographs. Once the cluster of photographs has been captured, step 704 ascertains an amount of blur in each photograph. The step can be performed either on the camera or by the camera, or by a computing device that is remote from the camera. An example of a blur detection technique is described above. It is to be appreciated and understood, however, that any suitable blur detection technique can be utilized without departing from the spirit and scope of the claimed subject matter. Once the amount of blur has been ascertained for each photograph, step 706 selects a photograph having the least amount of blur.

[0052] Having described embodiments in which clusters of photographs can be taken and images selected based on image processing techniques, consider now embodiments that utilize a gyroscope and/or accelerometer to determine camera motion and whether to take an automatic photo.

Using an Accelerometer and/or Gyroscope to Determine Camera Motion

[0053] As noted above, the photo log feature enables photographs to be taken automatically at periods of time that may or may not be specified by a user. Because a user may be in motion some of the time during the automatic photo-capturing mode, techniques can be employed to ascertain when to take a photograph to reduce the chances of a blurred image.

[0054] In at least some embodiments, the camera can include an accelerometer such as that described above. The accelerometer is utilized to detect linear motion. The accelerometer can be utilized to detect whether or not the camera is moving, or the amount of camera movement, during the automatic photo-capturing mode. Based on the motion detected by the accelerometer, a decision can be made whether or not to capture photograph. For example, when in the automatic photo-capturing mode, photos can be captured when the camera is detected to be motionless or when movement is slight.

[0055] In at least some embodiments, the camera can include a gyroscope such as that described above. The gyroscope is utilized to detect angular motion. The gyroscope can be utilized to detect whether or not the camera is moving, or the amount of camera movement, during the automatic photo-capturing mode. Based on the motion detected by the gyroscope, a decision can be made whether or not to capture photograph. For example, when in the automatic photo-capturing mode, photos can be captured when the camera is detected to be motionless or when movement is slight.

[0056] In at least some other embodiments, the camera can include both an accelerometer and a gyroscope. Input from both the accelerometer and the gyroscope can be utilized to ascertain when to capture a photo. For example, when in the automatic photo-capturing mode, photos can be captured when the camera is detected to be motionless or when movement is slight.

[0057] FIG. 5 is a flow diagram that describes steps in a method in accordance with one or more embodiments. The method can be performed in connection with any suitable hardware, software, firmware, or combination thereof. The method can be performed by a suitably-configured camera, such as the one described above.

[0058] Step 800 enters, with a camera, an automatic photo-capturing mode. This step can be performed by receiving user input to enter the automatic photo-capturing mode. An example of such a mode is described above. Step 801 waits for a timer to expire, thus providing an input that it is time to take a photograph. Step 802 ascertains a degree of movement of the camera. This step can be performed in any suitable way. For example, camera movement can be ascertained through the use of an accelerometer. Alternately, camera movement can be ascertained through the use of a gyroscope. Alternately, camera movement can be ascertained through the use of both an accelerometer and gyroscope.

[0059] Step 804 ascertains whether a movement threshold is met. Any suitable movement threshold can be utilized. For example, movement thresholds may be automatically set to a particular value by the camera. Alternately or additionally, movement thresholds may be set to a particular value by a user. Further, movement thresholds may be set to be relative as between movement data captured for the camera. For example, a time window may be defined and a movement threshold may be set as a percentage of an amount of movement within the time window.

[0060] Responsive to the movement threshold not being met, i.e. there being greater camera movement than desired, step 806 does not take a photograph and the method returns to step 802. Responsive to the movement threshold being met, i.e. there being little or no camera movement, step 808 takes a photograph and the method returns to step 801.

SnapAid, Ltd.
Exhibit 2042
Page #68

[0061] The techniques described just above can mitigate the effects of camera movement on the quality of photographs taken.

[0062] Having considered embodiments in which an accelerometer and/or gyroscope are utilized to determine camera motion for purposes of capturing images, consider now embodiments that utilize motion data associated with the camera in connection with the level of brightness in a camera's environment to determine whether and how to adjust the camera's shutter time.

Using Motion Data and Brightness to Adjust Camera Shutter Time

[0063] As will be appreciated by the skilled artisan, one can improve the amount of blur by decreasing the shutter time of the camera. The downside to this approach is that the amount of light that gets absorbed by the photo sensor is reduced so that the photograph is typically darker. In one or more embodiments, movement data associated with the camera's movement and data associated with the ambient brightness relative to the camera can be utilized to adjust the exposure time or shutter speed of the camera. This allows for a trade-off between motion blur and the level of brightness.

[0064] As example, consider the following. By ascertaining the camera's motion as described above, and considering the ambient brightness relative to the camera, photographs might be taken in conditions where the camera is moving outside of a desired movement threshold, yet the ambient brightness is high. Any suitable algorithm that considers the camera's motion and ambient brightness can be utilized.

[0065] FIG. 6 is a flow diagram that describes steps in a method in accordance with one or more embodiments. The method can be performed in connection with any suitable hardware, software, firmware, or combination thereof. The method can be performed by a suitably-configured camera, such as the one described above.

[0066] Step 900 enters, with a camera, an automatic photo-capturing mode. This step can be performed by receiving user input to enter the automatic photo-capturing mode. An example of such a mode as described above. Step 901 waits for a timer to expire, thus providing an input that it is time to take a photograph. Step 902 captures motion data and brightness data associated with the camera. This step can be performed in any suitable way. For example, camera movement can be ascertained through the use of an accelerometer. Alternately, camera movement can be ascertained through the use of a gyroscope. Alternately, camera movement can be ascertained through the use of both an accelerometer and gyroscope. Further, brightness data computed from light captured by the camera's photo sensor or an ambient light sensor.

[0067] Step 904 ascertains whether one or more conditions are satisfied. Any suitable conditions can be utilized. For example, an algorithm that is employed to analyze the motion data and brightness data can have tunable parameters that define desirable motion conditions and desirable brightness conditions.

[0068] Responsive to the condition(s) not being satisfied, step 906 does not take a photograph and the method returns to step 902. For example, if the environment is ascertained to be dark and there is a high degree of motion, then the photograph may not be taken. Responsive to the condition(s) being satisfied, step 908 adjusts the camera's exposure time and takes a photograph. For example, if the environment is bright and there is a high degree of motion, then a faster exposure time can be used to take the photograph. Likewise, if the environment is dark and there is a low degree of motion, then a slower exposure time can be used to take the photograph. The method then returns to step 902.

[0069] The techniques described just above can mitigate the effects of camera movement and light on the quality of photographs taken.

Conclusion

[0070] Various embodiments provide a camera that is configured to take a cluster of photographs and use image processing techniques to select a photograph with a lesser amount of blur than other photographs in the cluster.

[0071] In yet other embodiments, a camera includes one or more of a gyroscope or accelerometer. The gyroscope and/or accelerometer is utilized to ascertain the camera's motion. Motion data associated with the camera's motion is utilized to ascertain when to take an automatic photograph.

[0072] Various other embodiments provide a camera that is configured to adjust exposure time, i.e., shutter time, based on input associated with the camera's motion and the level of brightness in the camera's environment.

[0073] Although the embodiments have been described in language specific to structural features and/or methodological acts, it is to be understood that the various embodiments can be defined within the scope of the appended claims.

Claims

1. A camera device (100; 200) comprising:

a housing (202);

a camera lens (102; 204) supported by the housing and configured to enable capture of image data;

wherein the camera device is configured to:

receive input to capture a photograph (700);

SnapAid, Ltd.
Exhibit 2042
Page #69

responsive to receiving said input, capture a cluster of photographs;
transmit the captured cluster of photographs to a remote computing device for ascertaining an amount of blur in each photograph, and selecting a photograph based on an ascertained amount of blur; and

receive said selected photograph.

2. The camera device of claim 1 further comprising a fastening device (300) on the housing (202) and configured to enable the camera device to be worn by a user.

3. The camera device (100; 200) of claim 1, wherein the camera device is configured to: enter an automatic photo-capturing mode (800) in which photos are automatically taken at one or more intervals; ascertain whether a movement threshold is met; and responsive to a movement threshold being met, take a photograph.

4. The camera device (100; 200) of claim 1, comprising:

a motion detector configured to ascertain a degree of movement of the camera device;
a processor configured to:

enable the camera device to enter an automatic photo-capturing mode (900) in which photos are automatically taken at one or more intervals;
ascertain whether one or more conditions associated with motion data and brightness data are satisfied; and

responsive to the one or more conditions being satisfied, adjust an exposure time of the camera device and take a photograph (908).

5. The camera device of claim 4, wherein the motion detector comprises an accelerometer to capture the motion data.

6. The camera device of claim 4, wherein the motion detector comprises a gyroscope to capture the motion data.

7. The camera device of claim 4, wherein the motion detector comprises both an accelerometer and a gyroscope to capture the motion data.

8. The camera device of claim 2, wherein the fastening device is configured to enable the camera device to be mounted on clothing.

9. The camera device of claim 2, wherein the fastening device is configured to enable the user to wear the camera device on their clothing.

Patentansprüche

1. Kameravorrichtung (100; 200), die Folgendes umfasst:

ein Gehäuse (202);
eine Kameralinse (102; 204), die von dem Gehäuse getragen wird und dazu konfiguriert ist, das Erfassen von Bilddaten zu ermöglichen;

wobei die Kameravorrichtung zu Folgendem konfiguriert ist:

Empfangen einer Eingabe, um eine Fotografie (700) zu erfassen;
als Reaktion auf das Empfangen der Eingabe Erfassen einer Gruppe von Fotografien;
Übertragen der erfassten Gruppe von Fotografien an eine entfernte Datenverarbeitungsvorrichtung zum Ermitteln eines Umfangs an Unschärfe in jeder Fotografie und Auswählen einer Fotografie auf der Basis eines ermittelten Umfangs an Unschärfe und
Empfangen der ausgewählten Fotografie.

2. Kameravorrichtung (100; 200) nach Anspruch 1, die weiterhin eine Befestigungsvorrichtung (300) auf dem Gehäuse (202) umfasst und dazu konfiguriert ist zu ermöglichen, dass die Kameravorrichtung von einem Benutzer getragen wird.

3. Kameravorrichtung (100; 200) nach Anspruch 1, wobei die Kameravorrichtung zu Folgendem konfiguriert ist: Eintreten in einen automatischen Fotoerfassungsmodus (800), in dem Fotos automatisch in einem oder mehreren Intervallen aufgenommen werden;
Ermitteln, ob eine Bewegungsgrenze erfüllt wird; und
als Reaktion auf ein Erfüllen einer Bewegungsgrenze Aufnehmen einer Fotografie.

4. Kameravorrichtung (100; 200) nach Anspruch 1, die Folgendes umfasst:

einen Bewegungsmelder, der dazu konfiguriert ist, einen Grad der Bewegung der Kameravorrichtung zu ermitteln;
einen Prozessor, der zu Folgendem konfiguriert ist:

SnapAid, Ltd.
Exhibit 2042
Page #70

Ermöglichen, dass die Kameravorrichtung in einen automatischen Fotoerfassungsmodus (900) eintritt, in dem Fotos automatisch in einem oder mehreren Intervallen aufgenommen werden;
Ermitteln, ob eine oder mehrere Bedingungen, die mit Bewegungsdaten und Helligkeitsdaten assoziiert sind, erfüllt werden; und
als Reaktion auf ein Erfüllen der einen oder der mehreren Bedingungen Justieren einer Belichtungszeit der Kameravorrichtung und Aufnehmen einer Fotografie (908).

5. Kameravorrichtung nach Anspruch 4, wobei der Bewegungsmelder einen Beschleunigungsmesser umfasst, um die Bewegungsdaten zu erfassen.

6. Kameravorrichtung nach Anspruch 4, wobei der Bewegungsmelder ein Gyroskop umfasst, um die Bewegungsdaten zu erfassen.

7. Kameravorrichtung nach Anspruch 4, wobei der Bewegungsmelder sowohl einen Beschleunigungsmesser als auch ein Gyroskop umfasst, um die Bewegungsdaten zu erfassen.

8. Kameravorrichtung nach Anspruch 2, wobei die Befestigungsvorrichtung dazu konfiguriert ist zu ermöglichen, dass die Kameravorrichtung an Kleidung angebracht wird.

9. Kameravorrichtung nach Anspruch 2, wobei die Befestigungsvorrichtung dazu konfiguriert ist zu ermöglichen, dass der Benutzer die Kameravorrichtung an seiner Kleidung trägt.

Revendications

1. Un appareil photo (100 ; 200) comprenant :

un boîtier (202) ;
une lentille d'appareil photo (102 ; 204) soutenue par le boîtier et configurée pour permettre la capture de données d'image ;
dans lequel l'appareil photo est configuré pour :

recevoir un signal d'entrée pour capturer une photographie (700) ;
en réponse à la réception dudit signal d'entrée, capturer un groupe de photographies ;
transmettre le groupe de photographies capturées à un dispositif informatique à distance pour déterminer le degré de flou dans chaque photographie et sélectionner une photographie sur la base d'une quantité de flou déterminée ; et
recevoir ladite photographie sélectionnée.

2. L'appareil photo selon la revendication 1 comprenant en outre un dispositif de fixation (300) sur le boîtier (202) et configuré pour que l'appareil photo puisse être porté par un utilisateur.

3. L'appareil photo (100 ; 200) selon la revendication 1, dans lequel l'appareil photo est configuré pour :

entrer dans un mode de capture de photo automatique (800) dans lequel des photos sont prises automatiquement à un ou plusieurs intervalles ;
déterminer si un seuil de mouvement est atteint ; et
en réaction à un seuil de mouvement étant atteint, prendre une photographie.

4. L'appareil photo (100 ; 200) selon la revendication 1, comprenant :

un détecteur de mouvement configuré pour déterminer un degré de mouvement de l'appareil photo ;
un processeur configuré pour :

permettre à l'appareil photo d'entrer dans un mode de capture de photo automatique (900) dans lequel des photos sont prises automatiquement à un ou plusieurs intervalles ;
déterminer si une ou plusieurs conditions associées aux données de mouvement et aux données de luminosité sont satisfaites ; et
en réponse à la ou aux conditions étant satisfaites, ajuster un temps d'exposition de l'appareil photo et prendre une photographie (908).

5. L'appareil photo selon la revendication 4, dans lequel le détecteur de mouvement comprend un accéléromètre pour capturer les données de mouvement.

6. L'appareil photo selon la revendication 4, dans lequel le détecteur de mouvement comprend un gyroscope pour capturer les données de mouvement.

7. L'appareil photo selon la revendication 4, dans lequel le détecteur de mouvement comprend à la fois un accéléromètre et un gyroscope pour capturer les données de mouvement.

8. L'appareil photo selon la revendication 2, dans lequel le dispositif de fixation est configuré pour permettre à l'appareil photo d'être monté sur un vête-

SnapAid, Ltd.
Exhibit 2042
Page #71

ment.

9. L'appareil photo selon la revendication 2, dans lequel le dispositif de fixation est configuré pour permettre à l'utilisateur de porter l'appareil photo sur son vêtement.

SnapAid, Ltd.
Exhibit 2042
Page #72

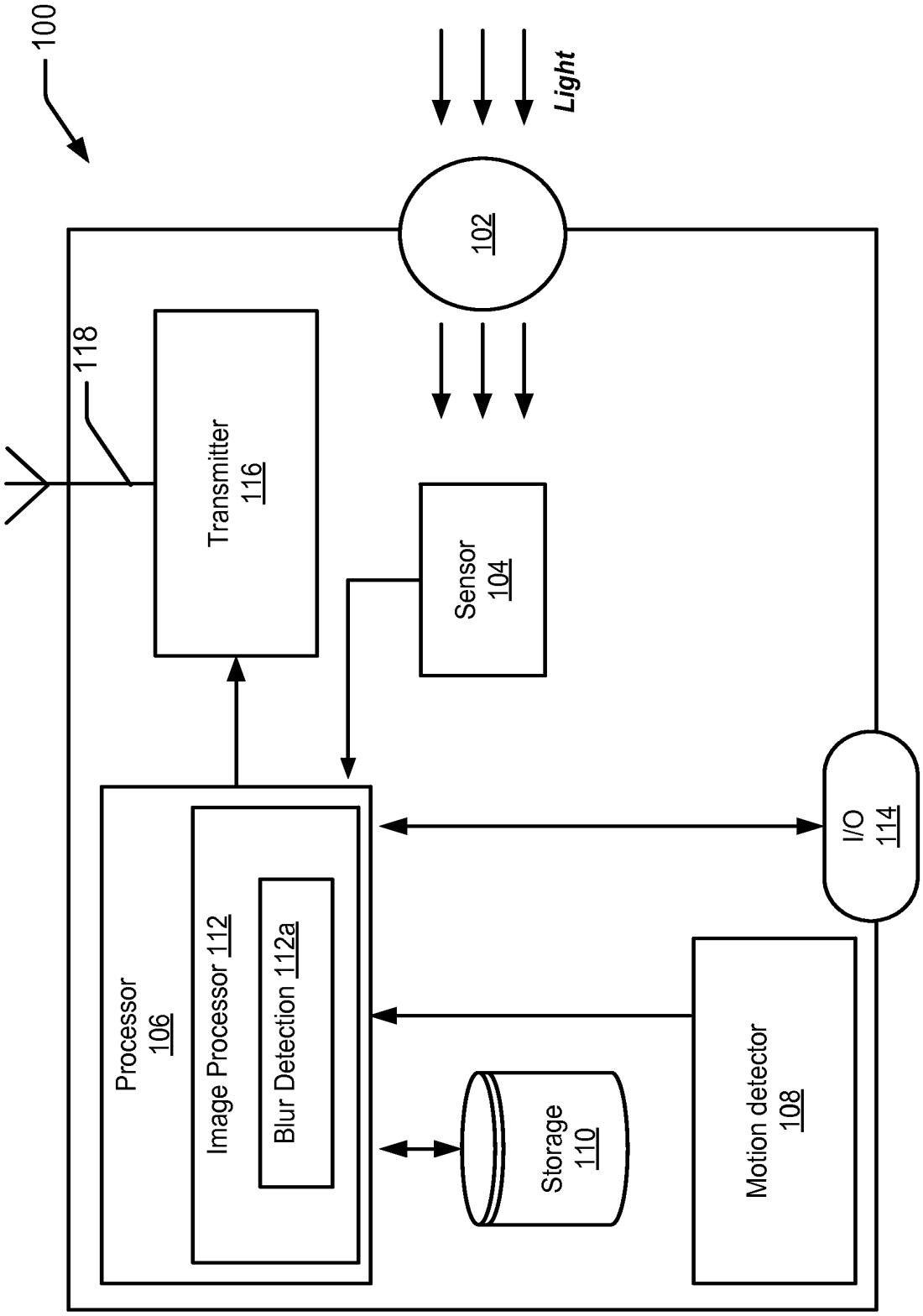


Fig. 1

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Exhibit 2042
Page #73

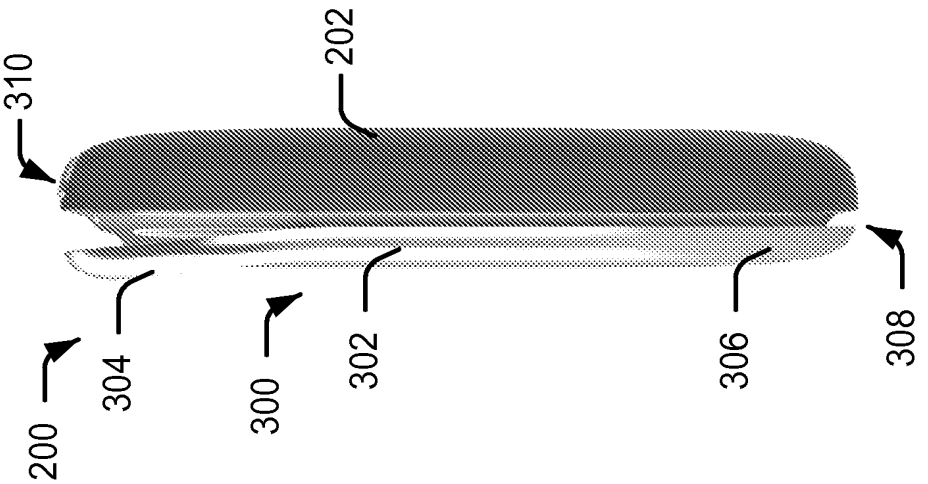


Fig. 3

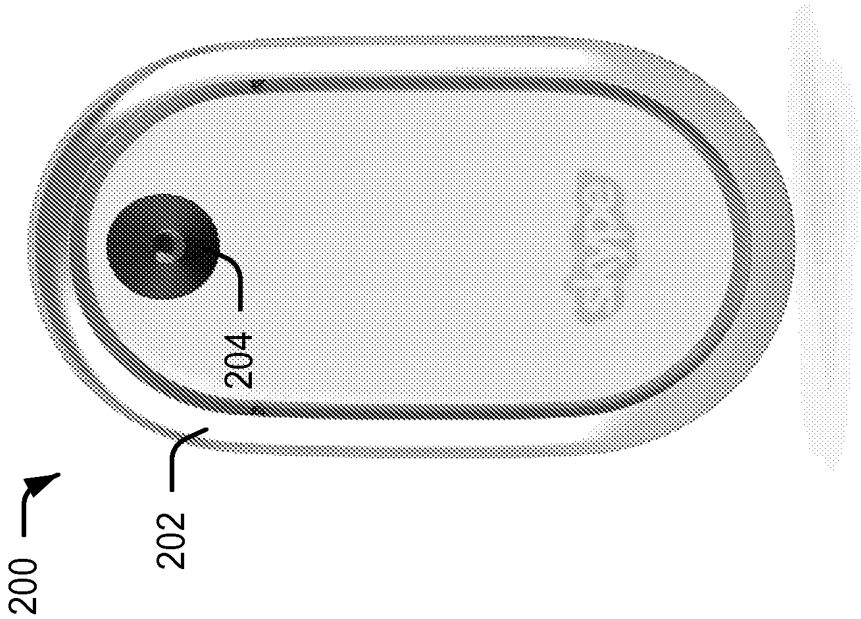


Fig. 2

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Page #74

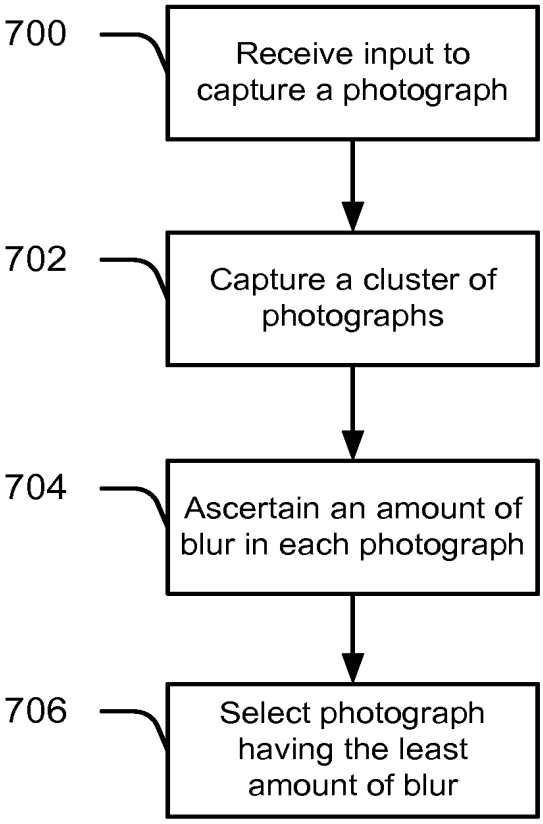


Fig. 4

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Exhibit 2042
Page #75

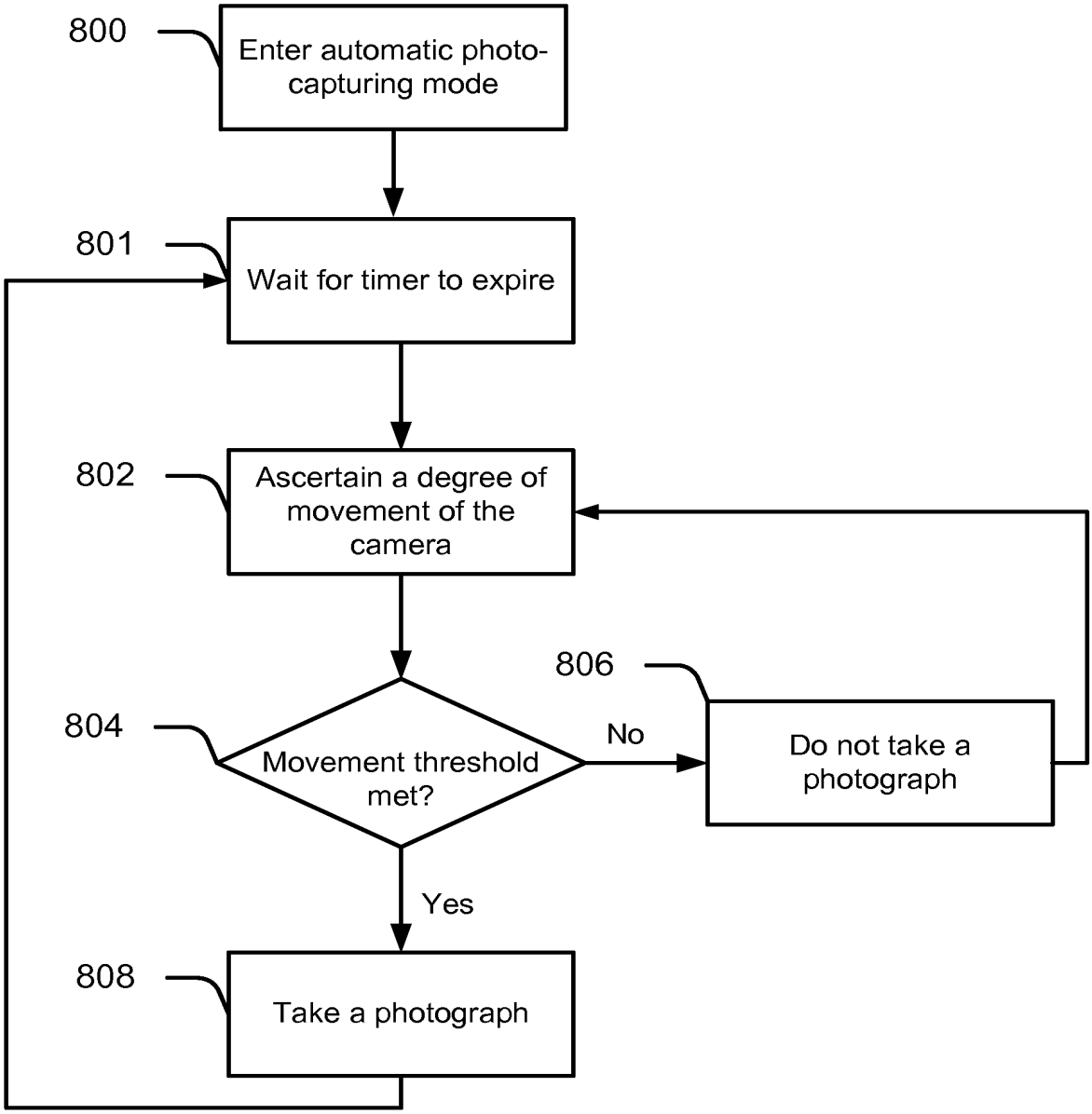


Fig. 5

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Page #76

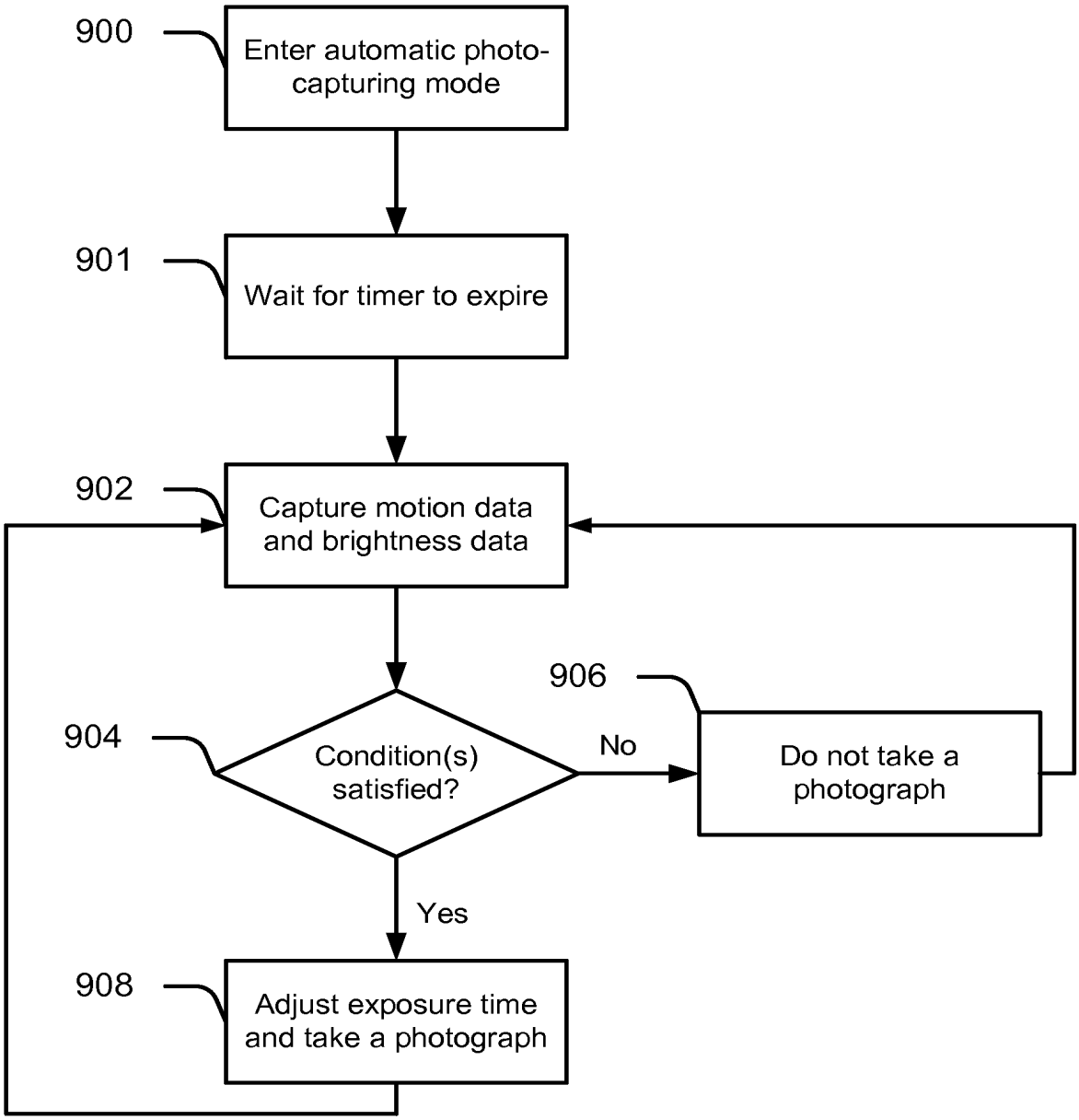


Fig. 6

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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US 20040066981 A1 **[0005]**
- US 20060012699 A1 **[0005]**
- US 20130057713 A1 **[0005]**
- US 7257273 B **[0018] [0045]**

Non-patent literature cited in the description

- **TONG et al.** Blur Detection for Digital Images Using Wavelet Transform. *Multimedia and Expo, 2004, IEEE International Conference,* 27 June 2004, vol. 1, 17-20 **[0018]**

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Exhibit 2042
Page #78

PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	REAL TIME ASSESSMENT OF PICTURE QUALITY

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [■] The attached application, or
- [ ] United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: SIVAN Ishay Date (Optional): May 25, 2018

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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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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:

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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.

PTO/SB/81 (01-09)
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Application Number	
Filing Date	
First Named Inventor	SIVAN, Ishay
Title	REAL TIME ASSESSMENT
Art Unit	
Examiner Name	
Attorney Docket Number	SIVAN-001-US3

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

131,926

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☒ Applicant/Inventor.

OR

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature		Date	May 26, 2018
Name	Ishay SIVAN	Telephone	-972-54-654-9030
Title and Company	CEO of SNAPAID LTD.		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

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 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 3 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.**

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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.
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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.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Filer:	Yehuda Binder
Attorney Docket Number:	SIVAN-001-US3

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	1	50	50
Miscellaneous-Filing:				
Petition:				

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Page #83

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**835**

Electronic Acknowledgement Receipt

EFS ID:	32752123
Application Number:	15992217
International Application Number:	
Confirmation Number:	7826
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Customer Number:	131926
Filer:	Yehuda Binder
Filer Authorized By:	
Attorney Docket Number:	SIVAN-001-US3
Receipt Date:	30-MAY-2018
Filing Date:	
Time Stamp:	06:26:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$835
RAM confirmation Number	053018INTEFSW00009418601835
Deposit Account	
Authorized User	

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Transmittal-letter.pdf	372617 bb869732adb1f60ac4dc1f1c0c18db7e924f0a5b	no	2
Warnings:					
Information:					
2	Specification	Spec.pdf	729729 1fce45e9a07ebc57ba3f19c409d51e0ace457f30	no	31
Warnings:					
Information:					
3	Claims	Claims.pdf	211352 60c644c828eead53d072ebed52e75ef4ecd90dc1	no	3
Warnings:					
Information:					
4	Drawings-only black and white line drawings	Drawings.pdf	192792 4179743d33288c2415cead6d0646a32a09798e0e	no	4
Warnings:					
Information:					
5	Abstract	Abstract.pdf	196801 4d0e7d0bab0ae1ef3d80afa46bae7814c7b53c91	no	1
Warnings:					
Information:					
6	Application Data Sheet	aia-ADS.pdf	1819421 bed471c7e6c665205484b9a380e1f6aa0ab96567	no	7
Warnings:					
Information:					

7	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	1036406 7c24fb919a57e662ec1d6a24e92f1f3c9f9ad662	no	7
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	IDS1.pdf	1036013 c508b7725391fd0095f9a98f18d71ce2f2c1d442	no	5
Warnings:					
Information:					
9	Non Patent Literature	EP2965140.pdf	300172 f03d500c3b7308e83fda65de2a94e457ffe49568	no	17
Warnings:					
Information:					
10	Oath or Declaration filed	Signed-Oath-PDF.pdf	102610 91a7acb28f1bee74126b10a6dd25c6221d468392	no	2
Warnings:					
Information:					
11	Power of Attorney	Signed-POA-PDF.pdf	142373 4526f6784eb3627d67a15e0ac58a8056bda81bba	no	2
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Warnings:					
Information:					
		Total Files Size (in bytes):	6176636		

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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.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/992,217	05/30/2018	2422	835	SIVAN-001-US3	21	3

CONFIRMATION NO. 7826

FILING RECEIPT

131926
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

OC000000100373240

Date Mailed: 06/19/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Ishay SIVAN, Tel Aviv, ISRAEL;

Applicant(s)

SnapAid Ltd., Tel Aviv, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 131926

Domestic Priority data as claimed by applicant

This application is a CON of 15/582,722 04/30/2017 PAT 10009537
which is a CON of 15/007,253 01/27/2016 PAT 9661226
which is a CON of 14/437,105 04/20/2015 PAT 9338348
which is a 371 of PCT/IL2013/050856 10/22/2013
which claims benefit of 61/717,216 10/23/2012
and claims benefit of 61/759,643 02/01/2013

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

SnapAid, Ltd.
Exhibit 2042
Page #89

If Required, Foreign Filing License Granted: 06/18/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/992,217**

Projected Publication Date: 09/27/2018

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

REAL TIME ASSESSMENT OF PICTURE QUALITY

Preliminary Class

348

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Exhibit 2042
Page #90

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/992,217

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	21 minus 20 =	* 1	x 50 =	50	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 230 =	0.00			
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).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	835		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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 found in the appropriate box in column 1.

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Exhibit 2042
Page #92

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3

CONFIRMATION NO. 7826

131926
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

PUBLICATION NOTICE

OC000000102644324

Title:REAL TIME ASSESSMENT OF PICTURE QUALITY

Publication No.US-2018-0278839-A1
Publication Date:09/27/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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Exhibit 2042
Page #93

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

131926 7590 07/29/2019

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

EXAMINER	
HANNETT, JAMES M	

ART UNIT	PAPER NUMBER
2698	

MAIL DATE	DELIVERY MODE
07/29/2019	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

SnapAid, Ltd.
Exhibit 2042
Page #94

Office Action Summary	Application No. 15/992,217	Applicant(s) SIVAN, Ishay	
	Examiner JAMES M HANNETT	Art Unit 2698	AIA (FITF) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 5/30/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-21 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-21 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 5/30/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

SnapAid, Ltd.
Exhibit 2042
Page #95

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 5/30/2018 were filed in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1: Claim(s) 1, 5-14 and 17-21 is/are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by US 2012/0177352 A1 Pillman et al.

2: As for Claim 1, Pillman et al teaches a camera device comprising: a housing (Inherent Paragraph [0005]); a camera lens (4) supported by the housing and configured to enable capture of image data and brightness data (Paragraph [0059]); a motion detector (motion is detected) configured to ascertain a degree of movement of the camera device; a processor configured to: enable the camera device to enter an automatic photo-capturing mode in which photographs are automatically taken at one or more intervals (preview images are captured) (Paragraph [0069]); ascertain whether one or more conditions associated with motion data and the brightness data are satisfied (Paragraph [0100-0102]); and

responsive to the one or more conditions being satisfied, adjust an exposure time of the camera device and take a photograph (Paragraph [0099].

3: As for Claim 5, Pillman et al teaches wherein the camera device is configured to: receive an input to capture a photograph (Paragraph [0073]); responsive to receiving the input, capture a cluster of photographs (Preview images); ascertain an amount of blur in each photograph; and select a photograph based on an ascertained amount of blur (Paragraph [0099]).

4: As for Claim 6, Pillman et al teaches in Paragraph [0097-0102 and 0112] wherein the motion data indicates a high degree of motion and the brightness data indicates that an environment of the camera is bright, the adjustment of the exposure time comprises using a faster exposure time.

5: As for Claim 7, Pillman et al teaches in Paragraph [0097-0102 and 0112] wherein the motion data indicates a low degree of motion and the brightness data indicates that an environment of the camera is dark, the adjustment of the exposure time comprises using a slower exposure time.

6: As for Claim 8, Pillman et al teaches in Paragraph [0059] a system comprising: a camera device (10); and a computing device (20) configured to: receive a captured cluster of photographs (preview images) from the camera device (10) (Paragraph [0069]); select a photograph, from the captured cluster of photographs, with the least amount of ascertained motion blur in the received cluster of photographs (Paragraphs [0100-0102 and 0111]).

7: As for Claim 9, Pillman et al teaches in Paragraphs [0022 and 0079] wherein the computing device (20) is configured to send the selected photograph to a device.

8: As for Claim 10, Pillman et al teaches in Paragraph [0062] wherein the camera device is further configured to: receive the selected photograph from the computing device; and store the selected photograph.

9: As for Claim 11, Pillman et al teaches in Paragraph [0073] wherein the camera device is configured to capture the cluster of photographs (preview images) using an automatic photo-capture mode.

10: As for Claim 12, Pillman et al teaches in Paragraph [0073] wherein the camera device is configured to capture the cluster of photographs (preview images) in response to a user input.

11: As for Claim 13, Pillman et al teaches in Paragraph [0073] wherein the user input is a movement gesture of the camera device (button is pressed).

12: As for Claim 14, Pillman et al teaches in Paragraph [0079] wherein the received captured cluster of photographs is received over a Wi-Fi or a Bluetooth communication link.

13: As for Claim 17, Pillman et al teaches in Paragraph [0073 and 0103] where user is notified on the quality of selected photograph (images are displayed on the display. Therefore, the user can view the images to determine quality); where quality is based on amount of motion blur in the selected photograph.

14: As for Claim 18, Claim 18 is rejected for reasons discussed related to Claim 1.

15: As for Claim 19, Pillman et al teaches in Paragraph [0073] further comprising: receiving, with the camera (10), a user input to initiate the entering the automatic photo-capturing mode.

16: As for Claim 20, Pillman et al teaches in Paragraph [0073 and 0069] further comprising: responsive to receiving the input, capturing a cluster of photographs (preview images); ascertain an amount of blur in each photograph (Paragraphs [0100-0102]); and select a photograph based on an ascertained amount of blur (Paragraph [0111]).

17: As for Claim 21, Pillman et al teaches in Paragraphs [0100-0102] wherein the selected photograph has the least amount of ascertained blur.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

18: Claims 2-4, 15 and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 2012/0177352 A1 Pillman et al.

19: As for Claim 2, Pillman et al teaches a camera system that detects motion. However, Pillman et al does not teach wherein the motion detector comprises an accelerometer to capture the motion data.

Pillman et al teaches in Paragraph [0007] in a different prior art embodiment that it was well known in the art to use accelerometers to detect camera motion.

Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to use accelerometers as taught by the prior art cameras disclosed in Pillman et al to detect motion in order improve image quality.

20: As for Claim 3, Pillman et al teaches a camera system that detects motion. However, Pillman et al does not teach wherein the motion detector comprises a gyroscope to capture the motion data.

Pillman et al teaches in Paragraph [0007] in a different prior art embodiment that it was well known in the art to use gyroscope to detect camera motion.

Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to use a gyroscope as taught by the prior art cameras disclosed in Pillman et al to detect motion in order improve image quality.

21: As for Claim 4, Pillman et al teaches a camera system that detects motion. However, Pillman et al does not teach wherein the motion detector comprises both an accelerometer and a gyroscope to capture the motion data.

Pillman et al teaches in Paragraph [0007] in a different prior art embodiments that it was well known in the art to use gyroscope and accelerometers to detect camera motion.

Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to modify the invention of Pillman et al to use a gyroscope and an accelerometer as taught by the prior art cameras disclosed in Pillman et al to detect motion in order improve image quality.

22: As for Claim 15, Pillman et al teaches a camera with a processor that processes a series of preview images. Furthermore, Pillman et al teaches in Paragraph [0079] connecting the camera to a remote photo service provider over the internet to process images. However, Pillman et al doesn't teach wherein the computing device is a remote server of a cloud-based service and the received captured cluster of photographs is received over the Internet.

Official Notice is taken that it was well known in the art at the time the invention was made to allow remote photo service provider over the internet to perform image processing in order to reduce the processing requirements needed within the handheld camera and therefore, reduce the cost of the cameras.

Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to form the computing devices a remote server of a cloud-based service and the received captured cluster of photographs is received over the Internet in the invention of Pillman et al in order to reduce the processing requirements needed within the handheld camera and therefore, reduce the cost of the camera.

23: As for Claim 16, Pillman et al teaches a camera system that detects motion. However, Pillman et al does not teach wherein the motion detector comprises a gyroscope to capture the motion data.

Pillman et al teaches in Paragraph [0007] in a different prior art embodiment that it was well known in the art to use gyroscope to detect camera motion.

Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to use a gyroscope as taught by the prior art cameras disclosed in Pillman et al to detect motion in order improve image quality.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES M HANNETT whose telephone number is (571)272-7309. The examiner can normally be reached 8:00 AM-5:00 PM Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached at 571-272-7406 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).

/JAMES M HANNETT/
Primary Examiner, Art Unit 2698

JMH
July 25, 2019

Notice of References Cited	Application/Control No. 15/992,217	Applicant(s)/Patent Under Reexamination SIVAN, Ishay	
	Examiner JAMES M HANNETT	Art Unit 2698	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8330826-B2	12-2012	Cerosaletti; Cathleen D.	G06K9/00664	348/222.1
*	B	US-20060017820-A1	01-2006	Kim; Su-hyun	H04N5/772	348/231.2
*	C	US-9154692-B2	10-2015	Son; Joo-Young	H04N5/23222	1/1
*	D	US-8081227-B1	12-2011	Kim; Grace	H04N17/002	348/211.3
*	E	US-7130463-B1	10-2006	Spangler; Randall R.	G06K9/4642	382/168
*	F	US-20060250515-A1	11-2006	Koseki; Hiroaki	H04N5/23293	348/362
*	G	US-20120177352-A1	07-2012	Pillman; Bruce Harold	H04N5/23248	396/61
*	H	US-20130314511-A1	11-2013	Chen; Ding-Yun	H04N5/23222	348/50
*	I	US-20110193990-A1	08-2011	PILLMAN; BRUCE H.	H04N5/232	348/229.1
*	J	US-20120007996-A1	01-2012	Bilcu; Radu Ciprian	H04N5/23258	348/208.2
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	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.

SnapAid, Ltd.
Exhibit 2042
Page #102

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	**Art Unit**
	JAMES M HANNETT	2698

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04N 5/2322, 5/23229 and 5/23258 (Combined with text search)	07/25/2019	JMH

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
East Search	07/25/2019	JMH
Inventor Name Search	07/25/2019	JMH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

	/JAMES M HANNETT/ Primary Examiner, Art Unit 2698

SnapAid Ltd.
Exhibit 2042
Page #103

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	Art Unit
	JAMES M HANNETT	2698

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/25/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
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	19	✓								
	20	✓								
	21	✓								

SnapAid, Ltd.
Exhibit 2042
Page #104

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Ishay SIVAN
Art Unit	
Examiner Name	
Attorney Docket Number	SIVAN-001-US3

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7136537	B1	2006-11-14	Maurizio Pilu	
	2	7130463	B1	2006-10-31	Randall R. Spangler	
	3	6178294	B1	2001-01-23	HITOSHI SAKANO	
	4	6091911	A	2000-07-18	HITOSHI SAKANO	
	5	9232137	B2	2016-01-05	Lammers; Michael J.	
	6	9538083		2017-01-03	Lammers; Michael J.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

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SnapAid, Ltd.
Exhibit 2042
Page #105

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	1	20120249837	A1	2012-10-04	Chen Lawrence Shao Hsien	
	2	20070216787	A1	2007-09-20	Lin Peng W et al	
	3	20110292221	A1	2011-12-01	Gu Ye et al	
	4	20090251557	A1	2009-10-08	Kim Ki Tae et al	
	5	20060017820	A1	2006-01-26	Kim Su-Hyun	
	6	20130188866	A1	2013-07-25	Pere OBRADOR	
	7	20020172432	A1	2002-11-21	Maurizio Pilu	
	8	20060250515	A1	2006-11-09	Koseki; Hiroaki ; et al.	
	9	20140320679	A1	2014-10-30	Lammers; Michael J.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

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SnapAid, Ltd.
Exhibit 2042
Page #106

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	1	2965140	EP	B1	2016-01-13	Microsoft Technology Licensing, LLC		

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	EPO, Supplementary European Search Report for EP 13849379.6, dated February 15, 2016	
	2	Yan Ke, Xiaoou Tang and Feng Jing, "The Design of High-Level Features for Photo Quality Assessment" (8 pages)	
	3	R. I. Hartley, A. Zisserman, "Multiple View Geometry in Computer Vision", Cambridge University Press (2004) (673 pages)	
	4	L. G. Liu, R. J. Chen, L. Wolf, and D. Cohen-Or, "Optimizing Photo Composition", "Photographic", Volume 29 (2010), Number 2 (10 pages)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/JAMES M HANNETT/	Date Considered	07/25/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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SnapAid, Ltd.
Exhibit 2042
Page #107

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Ishay SIVAN
Art Unit	
Examiner Name	
Attorney Docket Number	SIVAN-001-US3

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2018-05-25
Name/Print	Yehuda BINDER	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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SnapAid, Ltd.
Exhibit 2042
Page #108

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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.

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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.

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SnapAid, Ltd.
Exhibit 2042
Page #109

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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Exhibit 2042

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S9	1025	S8 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 08:56
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S27	28	S26 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:48
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Exhibit 2042

		predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:00
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		"20080064438" | "20080133526" | "20080175481" | "20080211943" | "20080218611" | "20080219581" | "20080219585" | "20080220750" | "20080231713" | "20080231714" | "20080232711" | "20080240555" | "20080292193" | "20080309769" | "20080309770" | "20080316321" | "20080317358" | "20090003652" | "20090009612" | "20090017880" | "20090046161" | "20090067826" | "20090080713" | "20090080796" | "20090080797" | "20090167893" | "20090174782" | "20090179999" | "20090185041" | "20090185753" | "20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" |				

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		"2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S44	24	S43 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S45	20	S44 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S46	0	S45 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S47	1	S45 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:04
S48	52	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/10/23 10:06
S49	34	S48 and quality with image	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/10/23 10:07

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S50	6	S49 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:07
S51	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:43
S52	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2016/11/19 09:47
S53	0	S52 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:47
S54	2	S52 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:48
S55	1	S52 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:05
S56	0	S52 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S57	0	S52 and exposure same values	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S58	0	S52 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S59	2	S52 and exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S60	0	S59 and auto-focus	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:13
S61	2	S59 and focus	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:13
S62	1	S59 and retake	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:18
S63	0	S59 and update with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:18
S64	18	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:19
S65	682	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22

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S66	28557	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22
S67	30568	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22
S68	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:23
S69	10	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:23
S70	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S71	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S72	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S73	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S74	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:31
S75	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:31
S76	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2016/11/20 13:55
S77	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2016/11/20 13:55
S78	14	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/11/20 14:08
S79	63	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/21 17:39
S80	18	("9001255").PN.	US-PGPUB; USPAT; USOCR;	OR	OFF	2016/11/21 17:40

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S81	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/22 09:10
S82	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S83	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S84	9	S83 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S85	5	S84 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S86	12861	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S87	5	S85 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/02/07 08:59

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			EPO; JPO; DERWENT; IBM_TDB			
S88	4951	S86 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S89	1612	S88 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S90	1225	S89 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S91	24	S89 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S92	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/02/07 08:59
S93	2	S85 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S94	921	S89 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S95	8312	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S96	346	S95 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59

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S97	22	S96 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S98	2	S96 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S99	945	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S100	100	S99 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S101	1612	S89 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S102	23	S100 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S103	3	S102 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S104	113435	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S105	23691	S104 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/02/07 08:59

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			DERWENT; IBM_TDB			
S106	1395	S105 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S107	545	S106 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S108	31	S107 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S109	3	S108 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S110	14	S107 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S111	10	S110 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S112	38946	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S113	135	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S114	5277	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/02/07 08:59

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S115	7841	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S116	6870	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S117	19023	S114 or S115 or S116	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S118	9	S117 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S119	3692	S117 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S120	75	S119 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S121	2	S119 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S122	96492	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S123	12	(predefined or pre-defined or	US-PGPUB;	OR	OFF	2017/02/07

		predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:59
S124	786	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" | "20070177817" | "20070189748" | "20070201724" | "20070234779" | "20070263995" | "20070269108" | "20070296833" | "20080012969" | "20080019669" | "20080030586" | "20080037827" | "20080037839" | "20080037840" | "20080043121"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 08:59

		"20080064438" | "20080133526" | "20080175481" | "20080211943" | "20080218611" | "20080219581" | "20080219585" | "20080220750" | "20080231713" | "20080231714" | "20080232711" | "20080240555" | "20080292193" | "20080309769" | "20080309770" | "20080316321" | "20080317358" | "20090003652" | "20090009612" | "20090017880" | "20090046161" | "20090067826" | "20090080713" | "20090080796" | "20090080797" | "20090167893" | "20090174782" | "20090179999" | "20090185041" | "20090185753" | "20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" |				

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		"2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S125	31	S124 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S126	27	S125 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S127	1	S126 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S128	3	S126 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S129	57	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 08:59
S130	38	S129 and quality with image	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/02/07 08:59

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S131	9	S130 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S132	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S133	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S134	0	S133 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S135	2	S133 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S136	1	S133 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S137	0	S133 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S138	0	S133 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S139	0	S133 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S140	2	S133 and exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S141	0	S140 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S142	2	S140 and focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S143	1	S140 and retake	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S144	0	S140 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S145	20	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S146	692	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59

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S147	28750	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S148	30831	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S149	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S150	10	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S151	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S152	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S153	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S154	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S155	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S156	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S157	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S158	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2017/02/07 08:59
S159	15	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 08:59
S160	65	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S161	18	("9001255").PN.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/02/07 08:59

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S162	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 08:59
S164	31683	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 09:32
S165	0	S164 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:33
S166	9664	S164 and quality	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:33
S167	668	S166 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:33
S168	366	S167 and weight with motion	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:33
S169	4	S168 and second adj weight	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:34
S170	3	S169 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2017/02/07 09:34
S171	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S172	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S173	9	S172 and buffer	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S174	5	S173 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S175	12861	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S176	5	S174 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S177	4951	S175 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S178	1612	S177 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S179	1225	S178 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S180	24	S178 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S181	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/02/07 12:23
S182	2	S174 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23

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S183	921	S178 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S184	8312	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S185	346	S184 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S186	22	S185 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S187	2	S185 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S188	945	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S189	100	S188 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S190	1612	S178 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S191	23	S189 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			DERWENT; IBM_TDB			
S192	3	S191 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S193	113435	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S194	23691	S193 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S195	1395	S194 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S196	545	S195 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S197	31	S196 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S198	3	S197 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S199	14	S196 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S200	10	S199 and user .clm.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/02/07 12:23

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S201	38946	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S202	135	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S203	5277	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S204	7841	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S205	6870	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S206	19023	S203 or S204 or S205	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S207	9	S206 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S208	3692	S206 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S209	75	S208 and (suggest$4 or	US-PGPUB;	OR	OFF	2017/02/07

		recommend$4) with quality	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:23
S210	2	S208 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S211	96492	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S212	12	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S213	786	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 12:23

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Exhibit 2042

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Exhibit 2042

		"6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S214	31	S213 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S215	27	S214 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S216	1	S215 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S217	3	S215 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S218	57	("20040075743" | "20050226499" |	US-PGPUB;	OR	OFF	2017/02/07

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Exhibit 2042

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S219	38	S218 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S220	9	S219 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S221	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S222	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S223	0	S222 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S224	2	S222 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S225	1	S222 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S226	0	S222 and exposure same parameters	US-PGPUB;	OR	OFF	2017/02/07

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Exhibit 2042

			USPAT			12:23
S227	0	S222 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S228	0	S222 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S229	2	S222 and exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S230	0	S229 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S231	2	S229 and focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S232	1	S229 and retake	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S233	0	S229 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S234	20	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S235	692	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S236	28750	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S237	30831	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S238	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S239	10	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S240	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S241	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S242	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S243	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S244	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S245	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S246	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S247	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" |	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23

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Exhibit 2042

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S248	15	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 12:23
S249	65	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S250	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S251	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S252	0	(("(20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S253	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S254	9	S253 and buffer	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S255	5	S254 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S256	12861	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S257	5	S255 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S258	4951	S256 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S259	1612	S258 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S260	1225	S259 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S261	24	S259 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S262	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/02/07 12:23
S263	2	S255 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			IBM_TDB			
S264	921	S259 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S265	8312	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S266	346	S265 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S267	22	S266 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S268	2	S266 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S269	945	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S270	100	S269 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S271	1612	S259 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S272	23	S270 and buffer	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S273	3	S272 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S274	113435	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S275	23691	S274 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S276	1395	S275 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S277	545	S276 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S278	31	S277 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S279	3	S278 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S280	14	S277 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S281	10	S280 and user .clm.	US-PGPUB; USPAT;	OR	OFF	2017/02/07 12:23

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Exhibit 2042

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S282	38946	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S283	135	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S284	5277	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S285	7841	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S286	6870	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S287	19023	S284 or S285 or S286	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S288	9	S287 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S289	3692	S287 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23

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Exhibit 2042

S290	75	S289 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S291	2	S289 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S292	96492	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S293	12	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S294	786	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 12:23

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Exhibit 2042

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Exhibit 2042

		"6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S295	31	S294 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S296	27	S295 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S297	1	S296 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S298	3	S296 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23

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Exhibit 2042

S299	57	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 12:23
S300	38	S299 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S301	9	S300 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S302	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S303	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S304	0	S303 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S305	2	S303 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S306	1	S303 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23

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Exhibit 2042

S307	0	S303 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S308	0	S303 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S309	0	S303 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S310	2	S303 and exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S311	0	S310 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S312	2	S310 and focus	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S313	1	S310 and retake	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S314	0	S310 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S315	20	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S316	692	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S317	28750	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S318	30831	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S319	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S320	10	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S321	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S322	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S323	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S324	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S325	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S326	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S327	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S328	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" |	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23

		"20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.				
S329	15	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/07 12:23
S330	65	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S331	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S332	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S333	31683	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/02/07 12:23
S334	0	S333 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S335	9664	S333 and quality	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S336	668	S335 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S337	366	S336 and weight with motion	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S338	4	S337 and second adj weight	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S339	3	S338 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2017/02/07 12:23
S340	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15

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Exhibit 2042

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S342	9	S341 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S343	5	S342 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S344	14303	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S345	5	S343 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S346	5581	S344 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S347	1746	S346 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15

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Exhibit 2042

S348	1331	S347 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S349	25	S347 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S350	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/12/01 08:15
S351	2	S343 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S352	1003	S347 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S353	9003	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S354	382	S353 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S355	28	S354 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S356	2	S354 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S357	1032	sivan .in.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:15

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S358	111	S357 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S359	1746	S347 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S360	25	S358 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S361	3	S360 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S362	123276	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S363	25830	S362 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S364	1504	S363 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S365	582	S364 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S366	33	S365 and buffer .clm.	US-PGPUB;	OR	OFF	2017/12/01

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:15
S367	3	S366 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S368	14	S365 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S369	10	S368 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S370	43130	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S371	150	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S372	6248	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S373	9168	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S374	7683	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/12/01 08:15

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Exhibit 2042

			IBM_TDB			
S375	21942	S372 or S373 or S374	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S376	11	S375 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S377	4318	S375 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S378	86	S377 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S379	2	S377 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S380	103496	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S381	13	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S382	875	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:15

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Exhibit 2042

		"20040066981" | "20040076335" |					
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		"20040135898" | "20040145659" |					
		"20040169767" | "20040170330" |					
		"20040212699" | "20040218057" |					
		"20040218067" | "20040247030" |					
		"20040247179" | "20050010108" |					
		"20050019000" | "20050031224" |					
		"20050041121" | "20050041123" |					
		"20050047672" | "20050052553" |					
		"20050057687" | "20050068446" |					
		"20050068452" | "20050078197" |					
		"20050140801" | "20050157181" |					
		"20050168587" | "20050201637" |					
		"20050203430" | "20050219391" |					
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		"20050243178" | "20050248660" |					
		"20050259864" | "20050270381" |					
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		"20060038891" | "20060039690" |					
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		"20060187308" | "20060204034" |					
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		"20080019669" | "20080030586" |					
		"20080037827" | "20080037839" |					
		"20080037840" | "20080043121" |					
		"20080064438" | "20080133526" |					
		"20080175481" | "20080211943" |					
		"20080218611" | "20080219581" |					
		"20080219585" | "20080220750" |					
		"20080231713" | "20080231714" |					
		"20080232711" | "20080240555" |					
		"20080292193" | "20080309769" |					
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		"20080317358" | "20090003652" |					
		"20090009612" | "20090017880" |					
		"20090046161" | "20090067826" |					
		"20090080713" | "20090080796" |					
		"20090080797" | "20090167893" |					
		"20090174782" | "20090179999" |					
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		"20090190803" | "20090196466" |					
		"20090196510" | "20090263022" |					

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		"20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S383	33	S382 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/12/01 08:15

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			IBM_TDB			
S384	29	S383 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S385	2	S384 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S386	4	S384 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S387	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:15
S388	41	S387 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S389	10	S388 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S390	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/12/01 08:15

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			IBM_TDB			
S391	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:15
S392	0	S391 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S393	2	S391 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:15
S394	1	S391 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S395	0	S391 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S396	0	S391 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S397	0	S391 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S398	2	S391 and exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S399	0	S398 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S400	2	S398 and focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S401	1	S398 and retake	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S402	0	S398 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S403	22	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S404	722	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S405	29573	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S406	31984	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S407	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S408	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S409	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S410	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S411	0	(retake or recapture) with exposure	US-PGPUB;	OR	OFF	2017/12/01

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Exhibit 2042

		with shutter with aperture	USPAT			08:16
S412	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S413	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S414	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S415	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S416	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S417	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16
S418	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S419	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S420	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S421	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

		"20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	DERWENT; IBM_TDB			
S422	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S423	9	S422 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S424	5	S423 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S425	14303	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S426	5	S424 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S427	5581	S425 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S428	1746	S427 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			IBM_TDB			
S429	1331	S428 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S430	25	S428 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S431	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/12/01 08:16
S432	2	S424 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S433	1003	S428 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S434	9003	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S435	382	S434 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S436	28	S435 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S437	2	S435 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S438	1032	sivan .in.	US-PGPUB;	OR	OFF	2017/12/01

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Exhibit 2042

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:16
S439	111	S438 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S440	1746	S428 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S441	25	S439 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S442	3	S441 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S443	123276	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S444	25830	S443 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S445	1504	S444 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S446	582	S445 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			IBM_TDB			
S447	33	S446 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S448	3	S447 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S449	14	S446 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S450	10	S449 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S451	43130	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S452	150	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S453	6248	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S454	9168	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S455	7683	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S456	21942	S453 or S454 or S455	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S457	11	S456 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S458	4318	S456 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S459	86	S458 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S460	2	S458 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S461	103496	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S462	13	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S463	875	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16

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Exhibit 2042

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Exhibit 2042

		"20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S464	33	S463 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S465	29	S464 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S466	2	S465 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S467	4	S465 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S468	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16
S469	41	S468 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S470	10	S469 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S471	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S472	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S473	0	S472 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S474	2	S472 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S475	1	S472 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S476	0	S472 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S477	0	S472 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S478	0	S472 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S479	2	S472 and exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S480	0	S479 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S481	2	S479 and focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S482	1	S479 and retake	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S483	0	S479 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S484	22	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S485	722	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S486	29573	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S487	31984	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S488	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S489	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S490	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S491	0	(retake or recapture) with automatic with exposure with shutter with	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16

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Exhibit 2042

		aperture				
S492	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S493	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S494	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S495	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S496	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S497	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S498	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16
S499	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S500	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S501	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S502	35268	weight with threshold	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S503	0	S502 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S504	10705	S502 and quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S505	780	S504 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S506	411	S505 and weight with motion	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S507	5	S506 and second adj weight	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S508	3	S507 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S509	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S510	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S511	9	S510 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S512	5	S511 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S513	14303	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S514	5	S512 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S515	5581	S513 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S516	1746	S515 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S517	1331	S516 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S518	25	S516 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S519	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/12/01 08:16
S520	2	S512 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S521	1003	S516 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S522	9003	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16

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Exhibit 2042

S523	382	S522 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S524	28	S523 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S525	2	S523 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S526	1032	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S527	111	S526 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S528	1746	S516 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S529	25	S527 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S530	3	S529 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S531	123276	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			DERWENT; IBM_TDB			
S532	25830	S531 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S533	1504	S532 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S534	582	S533 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S535	33	S534 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S536	3	S535 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S537	14	S534 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S538	10	S537 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S539	43130	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S540	150	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S541	6248	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S542	9168	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S543	7683	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S544	21942	S541 or S542 or S543	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S545	11	S544 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S546	4318	S544 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S547	86	S546 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S548	2	S546 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S549	103496	(predefined or pre-defined or	US-PGPUB;	OR	OFF	2017/12/01

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Exhibit 2042

		predetermined or pre-determined) with quality	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:16
S550	13	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S551	875	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16

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Exhibit 2042

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		"7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S552	33	S551 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S553	29	S552 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S554	2	S553 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S555	4	S553 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S556	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16

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Exhibit 2042

		"8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.				
S557	41	S556 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S558	10	S557 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S559	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S560	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S561	0	S560 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S562	2	S560 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S563	1	S560 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S564	0	S560 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S565	0	S560 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S566	0	S560 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S567	2	S560 and exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S568	0	S567 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S569	2	S567 and focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S570	1	S567 and retake	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16

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Exhibit 2042

S571	0	S567 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S572	22	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S573	722	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S574	29573	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S575	31984	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S576	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S577	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S578	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S579	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S580	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S581	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S582	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S583	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S584	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S585	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S586	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16
S587	67	"9001255"	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:16

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S588	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S589	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S590	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S591	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S592	9	S591 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S593	5	S592 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S594	14303	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S595	5	S593 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S596	5581	S594 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S597	1746	S596 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S598	1331	S597 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S599	25	S597 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S600	0	("2015/0288874").URPN.	USPAT	OR	OFF	2017/12/01 08:16
S601	2	S593 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S602	1003	S597 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S603	9003	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16

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Exhibit 2042

S604	382	S603 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S605	28	S604 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S606	2	S604 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S607	1032	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S608	111	S607 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S609	1746	S597 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S610	25	S608 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S611	3	S610 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S612	123276	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			DERWENT; IBM_TDB			
S613	25830	S612 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S614	1504	S613 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S615	582	S614 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S616	33	S615 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S617	3	S616 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S618	14	S615 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S619	10	S618 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S620	43130	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S621	150	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S622	6248	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S623	9168	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S624	7683	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S625	21942	S622 or S623 or S624	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S626	11	S625 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S627	4318	S625 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S628	86	S627 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S629	2	S627 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S630	103496	(predefined or pre-defined or	US-PGPUB;	OR	OFF	2017/12/01

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Exhibit 2042

		predetermined or pre-determined) with quality	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:16
S631	13	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S632	875	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16

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Exhibit 2042

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		"20080019669" | "20080030586" |				
		"20080037827" | "20080037839" |				
		"20080037840" | "20080043121" |				
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		"20080219585" | "20080220750" |				
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		"20090273685" | "20090303342" |				
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		"20100201826" | "20100201827" |				
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		"4824008" | "4862277" | "5192964" |				
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		"6114075").PN. OR ("6122017" |				
		"6124864" | "6134339" | "6269175" |				
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		"6360003" | "6363116" | "6365304" |				
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		"6555278" | "6567536" | "6577821" |				
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		"6892029" | "6930718" | "6947609" |				
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		"7160573" | "7177538" | "7180238" |				
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		"7315631" | "7316630" | "7316631" |				
		"7317815" | "7336821" | "7369712" |				
		"7403643" | "7453493" | "7453510" |				
		"7460695" | "7469071" | "7489341" |				
		"7548256" | "7551755" | "7565030" |				

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Exhibit 2042

		"7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S633	33	S632 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S634	29	S633 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S635	2	S634 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S636	4	S634 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S637	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16

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Exhibit 2042

		"8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.				
S638	41	S637 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S639	10	S638 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S640	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S641	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S642	0	S641 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S643	2	S641 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S644	1	S641 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S645	0	S641 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S646	0	S641 and exposure same values	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S647	0	S641 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S648	2	S641 and exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S649	0	S648 and auto-focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S650	2	S648 and focus	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S651	1	S648 and retake	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16

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Exhibit 2042

S652	0	S648 and update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S653	22	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S654	722	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S655	29573	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S656	31984	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S657	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S658	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S659	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S660	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S661	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S662	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S663	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S664	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S665	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S666	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S667	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/01 08:16
S668	67	"9001255"	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/12/01 08:16

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S669	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S670	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S671	35268	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 08:16
S672	0	S671 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S673	10705	S671 and quality	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S674	780	S673 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S675	411	S674 and weight with motion	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S676	5	S675 and second adj weight	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S677	3	S676 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2017/12/01 08:16
S678	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S679	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19

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Exhibit 2042

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S680	9	S679 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S681	5	S680 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S682	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S683	5	S681 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S684	5755	S682 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S685	1783	S684 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S686	1352	S685 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S687	26	S685 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S688	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:19

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Exhibit 2042

S689	2	S681 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S690	1019	S685 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S691	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S692	388	S691 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S693	30	S692 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S694	2	S692 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S695	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S696	114	S695 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S697	1783	S685 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/02/21 14:19

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Exhibit 2042

			DERWENT; IBM_TDB			
S698	26	S696 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S699	3	S698 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S700	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S701	26394	S700 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S702	1529	S701 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S703	587	S702 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S704	33	S703 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S705	3	S704 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S706	14	S703 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:19

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S707	10	S706 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S708	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S709	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S710	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S711	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S712	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S713	23068	S710 or S711 or S712	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S714	11	S713 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S715	4489	S713 and quality with image	US-PGPUB;	OR	OFF	2018/02/21

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:19
S716	89	S715 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S717	2	S715 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S718	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S719	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S720	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:19

		"20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" | "20070177817" | "20070189748" | "20070201724" | "20070234779" | "20070263995" | "20070269108" | "20070296833" | "20080012969" | "20080019669" | "20080030586" | "20080037827" | "20080037839" | "20080037840" | "20080043121" | "20080064438" | "20080133526" | "20080175481" | "20080211943" | "20080218611" | "20080219581" | "20080219585" | "20080220750" | "20080231713" | "20080231714" | "20080232711" | "20080240555" | "20080292193" | "20080309769" | "20080309770" | "20080316321" | "20080317358" | "20090003652" | "20090009612" | "20090017880" | "20090046161" | "20090067826" | "20090080713" | "20090080796" | "20090080797" | "20090167893" | "20090174782" | "20090179999" | "20090185041" | "20090185753" | "20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" |			

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		"6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S721	33	S720 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S722	29	S721 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S723	2	S722 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S724	4	S722 and (suggest$4 or	US-PGPUB;	OR	OFF	2018/02/21

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		recommend$4) with quality	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:19
S725	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:19
S726	41	S725 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S727	10	S726 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S728	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S729	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S730	0	S729 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:19
S731	2	S729 and motion	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:19

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			EPO; JPO; DERWENT; IBM_TDB			
S732	1	S729 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S733	0	S729 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S734	0	S729 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S735	0	S729 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S736	2	S729 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S737	0	S736 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S738	2	S736 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S739	1	S736 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S740	0	S736 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S741	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S742	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S743	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S744	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S745	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S746	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S747	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S748	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S749	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S750	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S751	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S752	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S753	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19
S754	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" |	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:19

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Exhibit 2042

		"20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.				
S755	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:19
S756	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S757	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S758	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S759	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S760	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20

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		"20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.				
S761	9	S760 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S762	5	S761 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S763	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S764	5	S762 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S765	5755	S763 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S766	1783	S765 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S767	1352	S766 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S768	26	S766 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S769	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21

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Exhibit 2042

						14:20
S770	2	S762 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S771	1019	S766 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S772	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S773	388	S772 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S774	30	S773 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S775	2	S773 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S776	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S777	114	S776 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S778	1783	S766 and buffer	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:20

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S779	26	S777 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S780	3	S779 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S781	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S782	26394	S781 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S783	1529	S782 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S784	587	S783 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S785	33	S784 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S786	3	S785 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S787	14	S784 and suggest$4 .clm.	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:20

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S788	10	S787 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S789	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S790	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S791	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S792	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S793	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S794	23068	S791 or S792 or S793	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S795	11	S794 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20

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Exhibit 2042

S796	4489	S794 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S797	89	S796 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S798	2	S796 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S799	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S800	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S801	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:20

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Exhibit 2042

		"20050203430" | "20050219391" |				
		"20050231603" | "20050231625" |				
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		"20050259864" | "20050270381" |				
		"20050281477" | "20060006309" |				
		"20060017820" | "20060017837" |				
		"20060023099" | "20060029284" |				
		"20060038891" | "20060039690" |				
		"20060093212" | "20060093238" |				
		"20060098237" | "20060098867" |				
		"20060098890" | "20060098891" |				
		"20060119710" | "20060120599" |				
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		"20070177817" | "20070189748" |				
		"20070201724" | "20070234779" |				
		"20070263995" | "20070269108" |				
		"20070296833" | "20080012969" |				
		"20080019669" | "20080030586" |				
		"20080037827" | "20080037839" |				
		"20080037840" | "20080043121" |				
		"20080064438" | "20080133526" |				
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		"20080218611" | "20080219581" |				
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		"20080309770" | "20080316321" |				
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		"20090009612" | "20090017880" |				
		"20090046161" | "20090067826" |				
		"20090080713" | "20090080796" |				
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		"20090190803" | "20090196466" |				
		"20090196510" | "20090263022" |				
		"20090273685" | "20090303342" |				
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		"20100201826" | "20100201827" |				
		"20100328472" | "20110069207" |				
		"20110193989" | "2857663" |				
		"4226932" | "4238146" | "4357382" |				
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		"4824008" | "4862277" | "5192964" |				
		"5251019" | "5374956" | "5392088" |				
		"5428723" | "5430480" | "5510215" |				
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		"5717611" | "5747199" | "5751836" |				
		"5756239" | "5756240" | "5773810" |				
		"5790490" | "5802220" | "5889277" |				
		"5889554" | "5909242" | "5981112" |				
		"6016354" | "6028960" | "6035072" |				

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Exhibit 2042

		"6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S802	33	S801 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S803	29	S802 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S804	2	S803 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20

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S805	4	S803 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S806	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:20
S807	41	S806 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S808	10	S807 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S809	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S810	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S811	0	S810 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S812	2	S810 and motion	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:20

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Exhibit 2042

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S813	1	S810 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S814	0	S810 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S815	0	S810 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S816	0	S810 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S817	2	S810 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S818	0	S817 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S819	2	S817 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S820	1	S817 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S821	0	S817 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S822	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S823	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S824	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S825	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S826	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S827	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S828	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S829	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S830	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S831	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S832	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S833	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S834	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S835	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" |	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20

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Exhibit 2042

		"20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.				
S836	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:20
S837	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S838	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S839	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S840	36321	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S841	0	S840 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S842	10954	S840 and quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S843	804	S842 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S844	421	S843 and weight with motion	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S845	5	S844 and second adj weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20
S846	3	S845 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:20

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Exhibit 2042

S847	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S848	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S849	9	S848 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S850	5	S849 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S851	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S852	5	S850 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S853	5755	S851 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S854	1783	S853 and buffer	US-PGPUB;	OR	OFF	2018/02/21

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Exhibit 2042

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:20
S855	1352	S854 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S856	26	S854 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S857	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:20
S858	2	S850 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S859	1019	S854 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:20
S860	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S861	388	S860 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S862	30	S861 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S863	2	S861 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:21

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S864	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S865	114	S864 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S866	1783	S854 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S867	26	S865 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S868	3	S867 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S869	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S870	26394	S869 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S871	1529	S870 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S872	587	S871 and quality near4 image .clm.	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:21

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Exhibit 2042

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S873	33	S872 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S874	3	S873 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S875	14	S872 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S876	10	S875 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S877	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S878	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S879	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S880	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21

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Exhibit 2042

S881	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S882	23068	S879 or S880 or S881	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S883	11	S882 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S884	4489	S882 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S885	89	S884 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S886	2	S884 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S887	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S888	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S889	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:21

SnapAid, Ltd.
Exhibit 2042

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SnapAid, Ltd.
Exhibit 2042

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Exhibit 2042

S890	33	S889 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S891	29	S890 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S892	2	S891 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S893	4	S891 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S894	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:21
S895	41	S894 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S896	10	S895 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21

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Exhibit 2042

S897	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S898	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S899	0	S898 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S900	2	S898 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S901	1	S898 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S902	0	S898 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S903	0	S898 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S904	0	S898 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S905	2	S898 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S906	0	S905 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S907	2	S905 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S908	1	S905 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S909	0	S905 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S910	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S911	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S912	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S913	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S914	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S915	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S916	0	(retake or recapture) with automatic with exposure with shutter with	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21

		aperture				
S917	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S918	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S919	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S920	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S921	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S922	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S923	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:21
S924	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:21
S925	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S926	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S927	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21

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Exhibit 2042

S928	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S929	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S930	9	S929 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S931	5	S930 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S932	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S933	5	S931 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S934	5755	S932 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S935	1783	S934 and buffer	US-PGPUB;	OR	OFF	2018/02/21

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Exhibit 2042

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:21
S936	1352	S935 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S937	26	S935 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S938	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:21
S939	2	S931 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S940	1019	S935 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S941	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S942	388	S941 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S943	30	S942 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:21
S944	2	S942 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:21

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S945	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S946	114	S945 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S947	1783	S935 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S948	26	S946 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S949	3	S948 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S950	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S951	26394	S950 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S952	1529	S951 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S953	587	S952 and quality near4 image .clm.	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:22

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Exhibit 2042

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S954	33	S953 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S955	3	S954 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S956	14	S953 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S957	10	S956 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S958	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S959	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S960	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S961	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22

S962	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S963	23068	S960 or S961 or S962	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S964	11	S963 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S965	4489	S963 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S966	89	S965 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S967	2	S965 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S968	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S969	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S970	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:22

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Exhibit 2042

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SnapAid, Ltd.
Exhibit 2042

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S971	33	S970 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S972	29	S971 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S973	2	S972 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S974	4	S972 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S975	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:22
S976	41	S975 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S977	10	S976 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22

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Exhibit 2042

S978	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S979	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S980	0	S979 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S981	2	S979 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S982	1	S979 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S983	0	S979 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S984	0	S979 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S985	0	S979 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S986	2	S979 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S987	0	S986 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S988	2	S986 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S989	1	S986 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S990	0	S986 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S991	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S992	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S993	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S994	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S995	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S996	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S997	0	(retake or recapture) with automatic with exposure with shutter with	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22

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Exhibit 2042

		aperture				
S998	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S999	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1000	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1001	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1002	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1003	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1004	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1005	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:22
S1006	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1007	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1008	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22

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Exhibit 2042

S1009	36321	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1010	0	S1009 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1011	10954	S1009 and quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1012	804	S1011 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1013	421	S1012 and weight with motion	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1014	5	S1013 and second adj weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1015	3	S1014 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:22
S1016	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1017	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1018	9	S1017 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1019	5	S1018 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1020	14704	image with capture with automatic$4	US-PGPUB;	OR	OFF	2018/02/21

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Exhibit 2042

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:22
S1021	5	S1019 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1022	5755	S1020 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:22
S1023	1783	S1022 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1024	1352	S1023 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1025	26	S1023 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1026	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:23
S1027	2	S1019 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1028	1019	S1023 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1029	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:23

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Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S1030	388	S1029 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1031	30	S1030 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1032	2	S1030 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1033	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1034	114	S1033 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1035	1783	S1023 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1036	26	S1034 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1037	3	S1036 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1038	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:23

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Exhibit 2042

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1039	26394	S1038 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1040	1529	S1039 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1041	587	S1040 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1042	33	S1041 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1043	3	S1042 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1044	14	S1041 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1045	10	S1044 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1046	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23

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Exhibit 2042

S1047	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1048	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1049	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1050	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1051	23068	S1048 or S1049 or S1050	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1052	11	S1051 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1053	4489	S1051 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1054	89	S1053 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1055	2	S1053 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/02/21 14:23

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			DERWENT; IBM_TDB			
S1056	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1057	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1058	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:23

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Exhibit 2042

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		"7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S1059	33	S1058 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1060	29	S1059 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1061	2	S1060 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1062	4	S1060 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1063	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:23

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		"5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.				
S1064	41	S1063 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1065	10	S1064 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1066	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1067	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1068	0	S1067 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1069	2	S1067 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:23
S1070	1	S1067 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1071	0	S1067 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1072	0	S1067 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1073	0	S1067 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1074	2	S1067 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1075	0	S1074 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23

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S1076	2	S1074 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1077	1	S1074 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1078	0	S1074 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1079	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1080	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1081	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1082	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1083	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1084	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1085	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1086	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1087	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1088	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1089	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1090	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:23
S1091	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1092	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1093	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:24

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Exhibit 2042

		("9154692").URPN.				
S1094	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1095	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1096	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1097	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1098	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1099	9	S1098 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1100	5	S1099 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24

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S1101	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1102	5	S1100 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1103	5755	S1101 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1104	1783	S1103 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1105	1352	S1104 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1106	26	S1104 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1107	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:24
S1108	2	S1100 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1109	1019	S1104 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1110	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:24

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Exhibit 2042

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1111	388	S1110 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1112	30	S1111 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1113	2	S1111 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1114	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1115	114	S1114 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1116	1783	S1104 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1117	26	S1115 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1118	3	S1117 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24

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S1119	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1120	26394	S1119 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1121	1529	S1120 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1122	587	S1121 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1123	33	S1122 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1124	3	S1123 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1125	14	S1122 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1126	10	S1125 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1127	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/02/21 14:24

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			DERWENT; IBM_TDB			
S1128	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1129	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1130	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1131	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1132	23068	S1129 or S1130 or S1131	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1133	11	S1132 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1134	4489	S1132 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1135	89	S1134 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1136	2	S1134 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:24

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1137	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1138	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1139	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" | "20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:24

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Exhibit 2042

"20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" | "20070177817" | "20070189748" | "20070201724" | "20070234779" | "20070263995" | "20070269108" | "20070296833" | "20080012969" | "20080019669" | "20080030586" | "20080037827" | "20080037839" | "20080037840" | "20080043121" | "20080064438" | "20080133526" | "20080175481" | "20080211943" | "20080218611" | "20080219581" | "20080219585" | "20080220750" | "20080231713" | "20080231714" | "20080232711" | "20080240555" | "20080292193" | "20080309769" | "20080309770" | "20080316321" | "20080317358" | "20090003652" | "20090009612" | "20090017880" | "20090046161" | "20090067826" | "20090080713" | "20090080796" | "20090080797" | "20090167893" | "20090174782" | "20090179999" | "20090185041" | "20090185753" | "20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" | "5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" |

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		"7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S1140	33	S1139 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1141	29	S1140 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1142	2	S1141 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1143	4	S1141 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1144	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:24

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		"20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.				
S1145	41	S1144 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1146	10	S1145 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1147	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1148	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1149	0	S1148 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1150	2	S1148 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:24
S1151	1	S1148 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1152	0	S1148 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1153	0	S1148 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1154	0	S1148 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1155	2	S1148 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:24
S1156	0	S1155 and auto-focus	US-PGPUB;	OR	OFF	2018/02/21

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Exhibit 2042

			USPAT			14:25
S1157	2	S1155 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1158	1	S1155 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1159	0	S1155 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1160	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1161	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1162	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1163	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1164	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1165	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1166	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1167	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1168	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1169	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1170	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1171	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1172	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1173	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1174	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:25

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		"7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.				
S1175	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1176	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1177	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1178	36321	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1179	0	S1178 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1180	10954	S1178 and quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1181	804	S1180 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1182	421	S1181 and weight with motion	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1183	5	S1182 and second adj weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1184	3	S1183 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:25
S1185	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1186	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" |	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:25

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Exhibit 2042

		"20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	EPO; JPO; DERWENT; IBM_TDB			
S1187	9	S1186 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1188	5	S1187 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1189	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1190	5	S1188 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1191	5755	S1189 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1192	1783	S1191 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1193	1352	S1192 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1194	26	S1192 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:25

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1195	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:25
S1196	2	S1188 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1197	1019	S1192 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1198	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1199	388	S1198 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1200	30	S1199 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1201	2	S1199 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1202	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1203	114	S1202 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/02/21 14:25

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			IBM_TDB			
S1204	1783	S1192 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1205	26	S1203 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1206	3	S1205 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1207	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1208	26394	S1207 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1209	1529	S1208 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1210	587	S1209 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1211	33	S1210 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1212	3	S1211 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:25

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			EPO; JPO; DERWENT; IBM_TDB			
S1213	14	S1210 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1214	10	S1213 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1215	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:25
S1216	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1217	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1218	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1219	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1220	23068	S1217 or S1218 or S1219	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1221	11	S1220 and confidence adj level with quality with image	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:26

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1222	4489	S1220 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1223	89	S1222 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1224	2	S1222 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1225	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1226	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1227	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" | "20050041121" | "20050041123" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:26

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		"20050047672" | "20050052553" | "20050057687" | "20050068446" | "20050068452" | "20050078197" | "20050140801" | "20050157181" | "20050168587" | "20050201637" | "20050203430" | "20050219391" | "20050231603" | "20050231625" | "20050243178" | "20050248660" | "20050259864" | "20050270381" | "20050281477" | "20060006309" | "20060017820" | "20060017837" | "20060023099" | "20060029284" | "20060038891" | "20060039690" | "20060093212" | "20060093238" | "20060098237" | "20060098867" | "20060098890" | "20060098891" | "20060119710" | "20060120599" | "20060125928" | "20060125938" | "20060133688" | "20060140455" | "20060170786" | "20060171464" | "20060187308" | "20060204034" | "20060204054" | "20060204110" | "20060257042" | "20060279639" | "20060285754" | "20070009169" | "20070025714").PN. OR ("20070058073" | "20070083114" | "20070086675" | "20070097221" | "20070110305" | "20070133893" | "20070147820" | "20070171987" | "20070177817" | "20070189748" | "20070201724" | "20070234779" | "20070263995" | "20070269108" | "20070296833" | "20080012969" | "20080019669" | "20080030586" | "20080037827" | "20080037839" | "20080037840" | "20080043121" | "20080064438" | "20080133526" | "20080175481" | "20080211943" | "20080218611" | "20080219581" | "20080219585" | "20080220750" | "20080231713" | "20080231714" | "20080232711" | "20080240555" | "20080292193" | "20080309769" | "20080309770" | "20080316321" | "20080317358" | "20090003652" | "20090009612" | "20090017880" | "20090046161" | "20090067826" | "20090080713" | "20090080796" | "20090080797" | "20090167893" | "20090174782" | "20090179999" | "20090185041" | "20090185753" | "20090190803" | "20090196466" | "20090196510" | "20090263022" | "20090273685" | "20090303342" | "20090303343" | "20100126831" | "20100201826" | "20100201827" | "20100328472" | "20110069207" | "20110193989" | "2857663" | "4226932" | "4238146" | "4357382" | "4448853" | "4532190" | "4624897" | "4824008" | "4862277" | "5192964" | "5251019" | "5374956" | "5392088" | "5428723" | "5430480" | "5510215" | "5599766" | "5686383" | "5708863" |			

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		"5717611" | "5747199" | "5751836" | "5756239" | "5756240" | "5773810" | "5790490" | "5802220" | "5889277" | "5889554" | "5909242" | "5981112" | "6016354" | "6028960" | "6035072" | "6041078" | "6061462" | "6081606" | "6114075").PN. OR ("6122017" | "6124864" | "6134339" | "6269175" | "6297071" | "6297846" | "6298198" | "6326108" | "6330029" | "6341179" | "6360003" | "6363116" | "6365304" | "6374054" | "6381279" | "6387577" | "6396883" | "6407777" | "6463173" | "6470147" | "6486915" | "6535244" | "6555278" | "6567536" | "6577821" | "6599668" | "6602656" | "6607873" | "6618491" | "6625396" | "6628898" | "6643387" | "6741960" | "6863368" | "6892029" | "6930718" | "6947609" | "6961518" | "7019331" | "7027087" | "7042509" | "7072525" | "7084037" | "7160573" | "7177538" | "7180238" | "7195848" | "7212230" | "7269292" | "7292270" | "7315324" | "7315630" | "7315631" | "7316630" | "7316631" | "7317815" | "7336821" | "7369712" | "7403643" | "7453493" | "7453510" | "7460695" | "7469071" | "7489341" | "7548256" | "7551755" | "7565030" | "7593144" | "7623153" | "7636486" | "7639888" | "7639889" | "7660478" | "7676108" | "7689107" | "7692696" | "7697778" | "7705884" | "7738015").PN. OR ("2004/0174434" | "2006/0017820" | "2006/0056835" | "2007/0195174" | "2009/0263028" | "2009/0278958" | "2010/0026872" | "2010/0290673" | "2011/0096180" | "2011/0279700" | "2012/0086847" | "2012/0133816" | "2012/0182447" | "2013/0038771" | "2013/0050507" | "2013/0058561" | "2013/0063538" | "2013/0155474" | "2014/0050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").URPN.				
S1228	33	S1227 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1229	29	S1228 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1230	2	S1229 and confidence adj level with quality with image	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:26

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1231	4	S1229 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1232	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:26
S1233	41	S1232 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1234	10	S1233 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1235	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1236	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1237	0	S1236 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/02/21 14:26

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			DERWENT; IBM_TDB			
S1238	2	S1236 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1239	1	S1236 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1240	0	S1236 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1241	0	S1236 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1242	0	S1236 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1243	2	S1236 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1244	0	S1243 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1245	2	S1243 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1246	1	S1243 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1247	0	S1243 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1248	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1249	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1250	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1251	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1252	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1253	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1254	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1255	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1256	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1257	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1258	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1259	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1260	5	("20060017820" | "20070216787" | "20090251557" | "20110292221" |	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26

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		"20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.				
S1261	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:26
S1262	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:26
S1263	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1264	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1265	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1266	0	(("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1267	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" |	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:26

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		"20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1268	9	S1267 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1269	5	S1268 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1270	14704	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:26
S1271	5	S1269 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1272	5755	S1270 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1273	1783	S1272 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1274	1352	S1273 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1275	26	S1273 and quality near4 indicator$4	US-PGPUB; USPAT;	OR	OFF	2018/02/21 14:27

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1276	0	("2015/0288874").URPN.	USPAT	OR	OFF	2018/02/21 14:27
S1277	2	S1269 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1278	1019	S1273 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1279	9212	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1280	388	S1279 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1281	30	S1280 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1282	2	S1280 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1283	1065	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1284	114	S1283 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/02/21 14:27

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			DERWENT; IBM_TDB			
S1285	1783	S1273 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1286	26	S1284 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1287	3	S1286 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1288	125796	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1289	26394	S1288 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1290	1529	S1289 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1291	587	S1290 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1292	33	S1291 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1293	3	S1292 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/02/21 14:27

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1294	14	S1291 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1295	10	S1294 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1296	44264	confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1297	155	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1298	6612	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1299	9674	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1300	8002	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1301	23068	S1298 or S1299 or S1300	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1302	11	S1301 and confidence adj level with	US-PGPUB;	OR	OFF	2018/02/21

		quality with image	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:27
S1303	4489	S1301 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1304	89	S1303 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1305	2	S1303 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1306	105426	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1307	14	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1308	903	("20010036307" | "20020006163" | "20020006284" | "20020054214" | "20020150302" | "20020154232" | "20020191861" | "20030007687" | "20030052991" | "20030058361" | "20030068100" | "20030091225" | "20030103076" | "20030112361" | "20030151672" | "20030151674" | "20030152271" | "20030152291" | "20030169818" | "20030193699" | "20030219172" | "20040047498" | "20040066981" | "20040076335" | "20040081441" | "20040090532" | "20040106958" | "20040120598" | "20040120698" | "20040130628" | "20040135898" | "20040145659" | "20040169767" | "20040170330" | "20040212699" | "20040218057" | "20040218067" | "20040247030" | "20040247179" | "20050010108" | "20050019000" | "20050031224" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:27

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S1309	33	S1308 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1310	29	S1309 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1311	2	S1310 and confidence adj level with	US-PGPUB;	OR	OFF	2018/02/21

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		quality with image	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:27
S1312	4	S1310 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1313	61	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:27
S1314	41	S1313 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1315	10	S1314 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1316	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1317	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1318	0	S1317 and shake	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/21 14:27

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			EPO; JPO; DERWENT; IBM_TDB			
S1319	2	S1317 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:27
S1320	1	S1317 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1321	0	S1317 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1322	0	S1317 and exposure same values	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1323	0	S1317 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1324	2	S1317 and exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1325	0	S1324 and auto-focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1326	2	S1324 and focus	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1327	1	S1324 and retake	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:27
S1328	0	S1324 and update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1329	23	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1330	731	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1331	29795	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1332	32279	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1333	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1334	11	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1335	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1336	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1337	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1338	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1339	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1340	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1341	5	("20060017820" | "20070216787" |	US-PGPUB;	OR	OFF	2018/02/21

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		"20090251557" | "20110292221" | "20120249837" | "20060017820" | "20070216787" | "20090251557" | "20110292221" | "20120249837").PN.	USPAT			14:28
S1342	32	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1343	16	("20060061678" | "20060221223" | "20070019943" | "20070076960" | "20080043108" | "20090046900" | "20120013783" | "7362354" | "7924326" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/02/21 14:28
S1344	67	"9001255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:28
S1345	18	("9001255").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:28
S1346	5	(("8655311") or ("8750514")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:28
S1347	36321	weight with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/21 14:28
S1348	0	S1347 and quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1349	10954	S1347 and quality	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1350	804	S1349 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28

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S1351	421	S1350 and weight with motion	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1352	5	S1351 and second adj weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1353	3	S1352 and estimat$4 same weight	US-PGPUB; USPAT	OR	OFF	2018/02/21 14:28
S1354	42	("20020172432" | "20040174434" | "20060017820" | "20060056835" | "20070195174" | "20070216787" | "20090251557" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20110292221" | "20120086847" | "20120133816" | "20120182447" | "20120249837" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20130188866" | "20140050367" | "6091911" | "6178294" | "7130463" | "7136537" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" | "9154692").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/22 08:14
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S1356	42	S1354 or S1355	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:41
S1357	24	S1356 and threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:41
S1358	15	S1357 and weight$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/02/22 08:42

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			EPO; JPO; DERWENT; IBM_TDB			
S1359	0	S1358 and inertial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:42
S1360	0	S1358 and inert$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:42
S1361	0	S1358 and object near4 recogn$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:43
S1362	0	S1358 and previous same video	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/22 08:43
S1363	7	(US-20110075930-$ or US-20060017820-$ or US-20060250515-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$ or US-7130463-$).did.	US-PGPUB; USPAT	OR	OFF	2019/07/24 10:29
S1364	2	S1363 and blur	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:30
S1365	46	("20020172432" | "20040174434" | "20060017820" | "20060056835" | "20060250515" | "20070195174" | "20070216787" | "20090251557" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110075930" | "20110096180" | "20110279700" | "20110292221" | "20120086847" | "20120133816" | "20120182447" | "20120249837" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20130188866" | "20140050367" | "20140320679" | "6091911" | "6178294" | "7130463" | "7136537" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8081227" | "8125557" | "8131118" | "8244053" | "8285067" | "8330826" |	US-PGPUB; USPAT	OR	OFF	2019/07/24 10:33

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Exhibit 2042

		"9154692" | "9232137" | "9538083").PN.				
S1366	6	S1363 and brightness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:34
S1367	0	S1363 and brightness with motion with blur	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:34
S1368	0	S1363 and brightness and motion with blur	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:34
S1369	2	S1363 and blur	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:34
S1370	38930	motion adj detector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:35
S1371	2256	S1370 and bracket	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:35
S1372	0	S1371 and motion with exposure adj time with brightness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:35
S1373	0	S1371 and blur with exposure adj time with brightness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:35
S1374	213	blur with exposure adj time with brightness	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/07/24 10:36

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1375	176	blur with exposure adj time with brightness same motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:36
S1376	5	S1375 and (gyroscope and accelerometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:37
S1377	16	("20020127011" | "20060082672" | "20060170784" | "20070122130" | "20090219415" | "20100309355" | "20110193990" | "20120007996" | "20130044230" | "20130057713" | "20130076921" | "20130136364" | "20130176458" | "20130235222" | "20130314511" | "6816188").PN.	US-PGPUB; USPAT	OR	OFF	2019/07/24 10:42
S1378	81455	S1377 abd blur	US-PGPUB; USPAT	OR	OFF	2019/07/24 10:43
S1379	4	S1377 and blur	US-PGPUB; USPAT	OR	OFF	2019/07/24 10:43
S1380	15	("2011/0193990").URPN.	USPAT	OR	OFF	2019/07/24 10:54
S1381	4	S1380 and blur	USPAT	OR	OFF	2019/07/24 10:55
S1382	5	S1375 and gyroscope	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:58
S1383	5	S1382 and accelerometer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/07/24 10:58

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Ishay SIVAN
Art Unit	
Examiner Name	
Attorney Docket Number	SIVAN-001-US3

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8285067		2012-10-09	Steinberg , et al.	
	2	8244053		2012-08-14	Steinberg , et al.	
	3	7362354		2008-04-22	Lin; Qian	
	4	7688379		2010-03-30	Forman , et al.	
	5	8125557		2012-02-08	Chen , et al.	
	6	7920727		2011-05-04	Weng , et al.	
	7	8040382		2011-10-18	Kahn , et al.	
	8	7982770		2011-07-19	Kahn , et al.	

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SnapAid, Ltd.
Exhibit 2042
Page #277

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	9	8131118		2012-06-03	Jing , et al.	
	10	8330826		2012-11-12	Cerosaletti; Cathleen D. ; et al.	
	11	8081227		2011-20-12	Kim , et al.	
	12	9154692		2015-06-10	Son , et al.	

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	1	20130155474		2013-06-20	Roach; John J. ; et al.	
	2	20090263028		2009-10-22	Kwon; Sung Jin	
	3	20060017820		2006-01-26	Kim; Su-hyun	
	4	20060056835		2006-03-16	Poon; Eunice ; et al.	
	5	20090278958		2009-11-12	Bregman-Amitai; Orna ; et al.	

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Exhibit 2042
Page #278

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	6	20070195174		2007-08-23	Oren; Halpern	
	7	20120133816		2012-05-31	Imai; Francisco	
	8	20100290673		2010-11-18	MIYASHITA; Naoyuki	
	9	20130058561		2013-03-07	Cheng; Chia-Ming	
	10	20130038771		2013-02-14	Brunner; Ralph ; et al.	
	11	20140050367		2014-02-20	CHEN; Francine ; et al.	
	12	20130050507		2013-02-28	Syed; Zia ; et al.	
	13	20120182447		2012-07-19	Gabay; Chanan	
	14	20130063538		2013-03-14	Hubner; Paul ; et al.	
	15	20120086847		2012-04-12	Foster; Brett	
	16	20100026872		2010-02-04	JIANG; JIN-LIN	

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SnapAid, Ltd.
Exhibit 2042
Page #279

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	17	20040174434		2004-09-09	Walker, Jay S. ; et al.	
	18	20110279700		2011-11-17	Steinberg; Eran ; et al.	
	19	20110096180		2011-04-28	McCloskey; Scott ; et al.	
	20	20110075930		2011-03-31	Cerosaletti; Cathleen D. ; et al.	
	21	20060017820		2006-01-26	Kim; Su-hyun	

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	1	2008033200	JP		2008-02-14	Nikon Corp		
	2	2007208922	JP		2007-08-16	Fujifilm Corp		
	3	2006050494	JP		2006-02-16	Casio Comput Co. Ltd.		
	4	2003069559	WO		2003-08-21	Lin; Qian		

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SnapAid, Ltd.
Exhibit 2042
Page #280

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Ishay SIVAN
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SIVAN-001-US3

	5	2011148212	WO		2011-12-01	Sony Ericsson Mobile Communications AB		
	6	2004030378	WO		2004-04-08	Poulsen Anders		
	7	2013044983	WO		2013-04-04	KLAUS MICHAEL HOFFMAN		

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature	/JAMES M HANNETT/	Date Considered	07/25/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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SnapAid, Ltd.
Exhibit 2042
Page #281

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Examiner Name	
Attorney Docket Number	SIVAN-001-US3

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2018-05-25
Name/Print	Yehuda BINDER	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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SnapAid, Ltd.
Exhibit 2042
Page #282

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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 the Freedom of Information Act requires disclosure of these record s.

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 inspections 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.

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SnapAid, Ltd.
Exhibit 2042
Page #283

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: SIVAN-001-US3

In re Application of:	)	Confirmation No. 7826
	)	
Ishay SIVAN	)	Art Unit: 2698
	)	
Appln. No.: 15/992,217	)	Examiner: Hannett, James M
	)	
Filed: May 30, 2018	)	Washington, D.C.
	)	
For: REAL TIME ASSESSMENT OF PICTURE QUALITY	)	December 25, 2019
	)	

AMENDMENT:

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Randolph Building, Mail Stop Amendments
401 Dulany Street
Alexandria, VA 22314

Sir:

In response to the Office Action of July 29, 2019:

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

Remarks/Arguments begin on page **10** of this paper.

Amendments to the Claims.

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1-20 (Canceled).

21. (New) A method for estimating quality of at least one image from a plurality of images, for use with a device that comprises in a single enclosure a digital camera module or functionality that comprises at least one optical lens for focusing received light from a scene and an image sensor coupled to the optical lens for capturing an image of the scene; a motion or location sensor for sensing the device motion; and a processor coupled to at least one image sensor and to the digital camera for receiving data therefrom, the method by the processor comprising use of at least one value and weight;
obtaining a first value (QI1) responsive to the device motion from the motion or location sensor;
estimating a first weight (c1) associated with the first;
obtaining a second value (QI2) associated with the digital camera;
estimating a second weight (c2) associated with the second value;

SnapAid, Ltd.
Exhibit 2042
Page #285

analyzing the captured image for detecting or recognizing one or more objects in the image and obtaining a third value (QI3) associated with motion of at least one of said objects;

estimating a third weight (c3) associated with the third value;

obtaining a fourth value (QI4) associated with recognition of object characteristics;

estimating a fourth weight (c4) associated with the fourth value;

obtaining a fifth value (QI5) associated with aesthetic quality of image based on composition;

estimating a fifth weight (c5) associated with the fifth value; and

calculating a total quality value according to, or based on values QI1, QI2, QI3 and QI5 and weights c1, c2, c3, c4 and c5.

22. (New) The method according to claim 21, wherein the estimating of the first weight (c1) is responsive to at least one of second, third, fourth or fifth value (QI2, QI3, QI4, QI5); or wherein the estimating of the second weight (c2) is responsive to at least one of the first, third, fourth or fifth value (QI1, QI3, QI4, QI5); or wherein the estimating of the third weight (c3) is responsive to at least one of first, second, fourth or fifth value (QI1, QI2, QI4, QI5); or wherein the estimating of the fourth weight (c4) is responsive to at

SnapAid, Ltd.
Exhibit 2042
Page #286

least one of the first, second, third or fifth value (QI1, QI2, QI3, QI5); or wherein the estimating of the fifth weight (c5) is responsive to at least one of the first, second, third or fourth value (QI1, QI2, QI3, QI4)

23. (New) The method according to claim 21, wherein the first weight (c1) is estimated according to, or based on, a precision error, reading resolution, or drift in time, of the motion or location sensor, and wherein the motion or location sensor consists of, or comprises, an accelerometer, a gyroscope, a Global Positioning System (GPS), or a step counter.

24. (New) The method according to claim 21, wherein the third weight (c3) is estimated according to, or based on, the estimated error in the analyzing the captured image for detecting or recognizing objects in the image.

25. (New) The method according to claim 21, wherein the digital camera further comprises an auto-focus functionality, wherein the auto-focus functionality is coupled to the controlled by the processor, and wherein the method further comprising controlling the auto-focus functionality according to, or based on, the second value (QI2) or the total value.

26. (New) The method according to claim 21, wherein object characteristics are at least one of recognized smile, looking at camera, face importance to user or confidence of object recognition.

SnapAid, Ltd.
Exhibit 2042
Page #287

27. (New) The method according to claim 21, wherein aesthetic quality of image based on composition includes at least one of: rule of thirds, golden triangle, golden spiral, shapes and lines, amputation avoidance, visual balance, diagonal dominance, non-reference quality indication or relative position of salient regions in the image.

28. (New) The method according to claim 21, further comprising grading the image quality according to, or based on, the total value, and wherein the total value is calculated as a weighted average value according to, or based on, $c1*QI1+c2*QI2+c3*QI3+c4*QI4+c5*QI5$.

29. (New) The method according to claim 21, for use with a probability distribution function using a mean value (μ) and a standard deviation value (σ), wherein the estimating of at least one of the weights (c1, c2, c3, c4, c5) is according to, or based on, the respective probability of the at least of the values (QI1, QI2, QI3, QI4, QI5), according to the probability distribution function.

30. (New) The method according to claim 21, for use with a plurality of former values of the respective QI, further comprising calculating the mean value (μ) and the as the standard deviation value (σ) based on the plurality of former values.

SnapAid, Ltd.
Exhibit 2042
Page #288

31. (New) The method according to claim 21, wherein the acting comprises affecting the digital camera in response to the total value.

32. (New) The method according to claim 21, wherein:

the device comprises multiple motion or location sensors for sensing the device motion selected from a group consisting of a gyroscope, accelerometer, Global Positioning System (GPS), 9 Degrees of Freedom (DOF) sensing component, and 10 Degrees of Freedom (DOF) sensing component, wherein the method comprising obtaining a corresponding first value (QI1i) from each of the multiple motion or location sensors responsive to the device motion from the respective motion or location sensor; and estimating or calculating the first value (QI1) based on the multiple first values (QI1i) from the multiple motion or location sensors,

or wherein:

the analyzing of the captured image comprises applying multiple algorithms selected from a group consisting of an aesthetic algorithm, an artificial neural network employing deep learning algorithm, a corner detection algorithm, a blur detecting algorithm, and Peak Signal-to-Noise Ratio (PSNR) calculation, and the method further comprising obtaining a respective third value (QI3i) associated with each of multiple algorithms, and

SnapAid, Ltd.
Exhibit 2042
Page #289

calculating or estimating the third value (QI3) based on the multiple third values (QI3i) from the multiple algorithms.

33. (New) The method according to claim 21, wherein estimating fourth value (QI4) or forth weight (c4) is based at least partly on a list of configured faces.

34. (New) The method according to claim 21, wherein algorithms of deep learning are used to compute at least one of the values (QI1, QI2, QI3, QI4, QI5).

35. (New) The method according to claim 21, wherein algorithms of deep learning are used to compute the total quality value.

36. (New) The method according to claim 21, wherein the second value is a combination of at least one of digital camera exposure, focus and under or over exposure.

37. (New) A method for estimating quality of at least one image from a stream of images from a video, for use with a device that comprises in a single enclosure a digital camera module or functionality that comprises at least one optical lens for focusing received light from a scene and an image sensor coupled to at least one optical lens for capturing an image of the scene; a motion or location sensor for sensing the device motion; and a processor coupled to the image sensor and to the digital camera for receiving data therefrom, the method by the processor comprising use of at least one value and weight;

SnapAid, Ltd.
Exhibit 2042
Page #290

obtaining a first value (QI1) responsive to the device motion from the motion or location sensor;

estimating a first weight (c1) associated with the first;

obtaining a second value (QI2) value is a combination of at least one of digital camera exposure, focus and under or over exposure;

estimating a second weight (c2) associated with the second value;

analyzing the captured image via deep learning algorithms for detecting or recognizing one or more objects in, or one or more characteristics of image or at least one of object characteristics to obtain a third value (QI3) associated with the analysis;

calculating a total quality value according to, or based on values QI1, QI2, QI3 and weights c1, c2, c3 and previous values QI1, QI2, QI3 and previous weights c1, c2, c3 in said image stream; and

selecting by said processor at least one image from the plurality of images at least partly on said total quality value.

38. (New) The method according to claim 37, where a first value (QI1) can be a combination of accelerometer data, gyro data and camera/lens module.

SnapAid, Ltd.
Exhibit 2042
Page #291

39. (New) The method according to claim 37, wherein algorithms of deep learning are used to compute at least one of the values (QI1, QI2, QI3, QI4, QI5).

40. (New) The method according to claim 37, wherein algorithms of deep learning are used to compute the total quality value.

SnapAid, Ltd.
Exhibit 2042
Page #292

REMARKS

The examiner's action dated July 29, 2019, has been received and its contents carefully noted. In order to differentiate over the cited references, claims 1-20 were canceled and new claims 21-36 were added, claiming a method rather a device claims.

Support for the new claims follows:

21. A method for estimating quality of at least one image from a plurality of images, for use with a device that comprises in a single enclosure a digital camera module or functionality that comprises at least one optical lens for focusing received light from a scene and an image sensor coupled to the optical lens for capturing an image of the scene; a motion or location sensor for sensing the device motion; and a processor coupled to at least one image sensor and to the digital camera for receiving data therefrom, the method by the processor comprising use of at least one value and weight;
obtaining a first value (QI1) responsive to the device motion from the motion or location sensor (part 270, page 15);
estimating a first weight (c1) associated with the first;
obtaining a second value (QI2) associated with the digital camera (part 248, part 245, part 247, part 243, part 241, part 246, page 18-21);

SnapAid, Ltd.
Exhibit 2042
Page #293

estimating a second weight (c2) associated with the second value;

analyzing the captured image for detecting or recognizing one or more objects in the image and obtaining a third value (QI3) associated with motion of at least one of said objects (part 260, page 16-18);

estimating a third weight (c3) associated with the third value;

obtaining a fourth value (QI4) associated with recognition of object characteristics (part 249, part 250);

estimating a fourth weight (c4) associated with the fourth value;

obtaining a fifth value (QI5) associated with aesthetic quality of image based on composition;

estimating a fifth weight (c5) associated with the fifth value (part 240, part 242, page 22-23); and

calculating a total quality value according to, or based on values QI1, QI2, QI3 and QI5 and weights c1, c2, c3, c4 and c5.

22. The method according to claim 21, wherein the estimating of the first weight (c1) is responsive to at least one of second, third, fourth or fifth value (QI2, QI3, QI4, QI5); or wherein the estimating of the second weight (c2) is responsive to at least one of the first, third, fourth or fifth value (QI1, QI3, QI4, QI5); or wherein the estimating of the third weight (c3) is responsive to at least one of first, second, fourth or fifth

SnapAid, Ltd.
Exhibit 2042
Page #294

value (QI1, QI2, QI4, QI5); or wherein the estimating of the fourth weight (c4) is responsive to at least one of the first, second, third or fifth value (QI1, QI2, QI3, QI5); or wherein the estimating of the fifth weight (c5) is responsive to at least one of the first, second, third or fourth value (QI1, QI2, QI3, QI4) (page 24, line 9-29 and equations , page 27 items b-d)

23. The method according to claim 21, wherein the first weight (c1) is estimated according to, or based on, a precision error, reading resolution, or drift in time, of the motion or location sensor, and wherein the motion or location sensor consists of, or comprises, an accelerometer, a gyroscope (page 12-13), a Global Positioning System (GPS), or a step counter.

24. The method according to claim 21, wherein the third weight (c3) is estimated according to, or based on, the estimated error in the analyzing the captured image for detecting or recognizing objects in the image.

25. The method according to claim 21, wherein the digital camera further comprises an auto-focus functionality, wherein the auto-focus functionality is coupled to the controlled by the processor, and wherein the method further comprising controlling the auto-focus (page 4 line 21-23) functionality according to, or based on, the second value (QI2) or the total value.

SnapAid, Ltd.
Exhibit 2042
Page #295

26. The method according to claim 21, wherein object characteristics are at least one of recognized smile, looking at camera (part 249, page 18 last paragraph), face importance to user (page 19, first 3 paragraphs) or confidence of object recognition.

27. The method according to claim 21, wherein aesthetic quality of image based on composition includes at least one of: rule of thirds, golden triangle, golden spiral, shapes and lines, amputation avoidance, visual balance, diagonal dominance (part 240, page 22), non-reference quality indication (page 22, lines 26-34) or relative position of salient regions in the image (Page 22, line 27).

28. The method according to claim 21, further comprising grading the image quality according to, or based on, the total value, and wherein the total value is calculated as a weighted average value according to, or based on, c1*QI1+c2*QI2+c3*QI3+c4*QI4+c5*QI5.

29. The method according to claim 21, for use with a probability distribution function using a mean value (μ) and a standard deviation value (σ), wherein the estimating of at least one of the weights (c1, c2, c3, c4, c5) is according to, or based on, the respective probability of the at least of the values (QI1, QI2, QI3, QI4, QI5), according to the probability distribution function (page 11).

SnapAid, Ltd.
Exhibit 2042
Page #296

30. The method according to claim 21, for use with a plurality of former values of the respective QI, further comprising calculating the mean value (μ) and the as the standard deviation value (σ) based on the plurality of former values.

31. The method according to claim 1, wherein the acting comprises affecting the digital camera in response to the total value.

32. The method according to claim 21, wherein:

the device comprises multiple motion or location sensors for sensing the device motion selected from a group consisting of a gyroscope, accelerometer, Global Positioning System (GPS), 9 Degrees of Freedom (DOF) sensing component, and 10 Degrees of Freedom (DOF) sensing component, wherein the method comprising obtaining a corresponding first value (QI1i) from each of the multiple motion or location sensors responsive to the device motion from the respective motion or location sensor; and estimating or calculating the first value (QI1) based on the multiple first values (QI1i) from the multiple motion or location sensors,

or wherein:

the analyzing of the captured image comprises applying multiple algorithms selected from a group consisting of an aesthetic algorithm, an artificial neural network employing deep learning algorithm, a corner detection algorithm, a blur detecting

SnapAid, Ltd.
Exhibit 2042
Page #297

algorithm, and Peak Signal-to-Noise Ratio (PSNR) calculation, and the method further comprising obtaining a respective third value (QI3i) associated with each of multiple algorithms, and calculating or estimating the third value (QI3) based on the multiple third values (QI3i) from the multiple algorithms.

33. The method according to claim 21, wherein estimating fourth value (QI4) or forth weight (c4) is based at least partly on a list of configured faces (part 250, page 19).

34. The method according to claim 21, wherein algorithms of deep learning (page 14, line 7) are used to compute at least one of the values (QI1, QI2, QI3, QI4, QI5).

35. The method according to claim 21, wherein algorithms of deep learning are used to compute the total quality value (page 14, line 7).

36. The method according to claim 21, wherein the second value is a combination of at least one of digital camera exposure (part 245), focus (part 248) and under or over exposure (part 243).

37. A method for estimating quality of at least one image from a stream of images from a video (page 5, lines 19-27), for use with a device that comprises in a single enclosure a digital camera module or functionality that comprises at least one optical lens for focusing received light from a scene and an image sensor coupled to at least one optical lens for capturing

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Exhibit 2042
Page #298

an image of the scene; a motion or location sensor for sensing the device motion; and a processor coupled to the image sensor and to the digital camera for receiving data therefrom, the method by the processor comprising use of at least one value and weight;

obtaining a first value (QI1) responsive to the device motion from the motion or location sensor (part 270, page 15);

estimating a first weight (c1) associated with the first;

obtaining a second value (QI2) value is a combination of at least one of digital camera exposure (part 245), focus (part 248) and under or over exposure (part 243);

estimating a second weight (c2) associated with the second value;

analyzing the captured image via deep learning algorithms (page 14, line 7-8) for detecting or recognizing one or more objects in, or one or more characteristics of image or at least one of object characteristics to obtain a third value (QI3) associated with the analysis;

calculating a total quality value according to, or based on values QI1, QI2, QI3 and weights c1, c2, c3 and previous values QI1, QI2, QI3 and previous weights c1, c2, c3 in said image stream; and

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Exhibit 2042
Page #299

selecting by said processor at least one image from the plurality of images at least partly on said total quality value (page 5, lines 10-11).

38. The method according to claim 37, where a first value (QI1) can be a combination of accelerometer data, gyro data and camera/lens module.

39. The method according to claim 37, wherein algorithms of deep learning (page 14, line 7) are used to compute at least one of the values (QI1, QI2, QI3, QI4, QI5).

40. The method according to claim 37, wherein algorithms of deep learning are used to compute the total quality value (page 14, line 7).

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Exhibit 2042
Page #300

The absence of a reply to a specific rejection, issue, or comment, does not signify agreement with that rejection, issue, or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims that have not been expressed.

Nothing in this reply should be understood as conceding any issue with regard to any claim, except as specifically stated in this reply, and the amendment of any claims does not necessarily signify concession of unpatentability to the claim before its amendment.

In view of the foregoing, it is requested that all of the rejections be reconsidered and withdrawn and that the claims be considered allowable.

If the above arguments should not now place the application in the condition for allowance, the examiner is invited to call undersigned counsel to resolve any remaining issues.

Respectfully submitted,

By /Yehuda Binder/
Yehuda Binder
Registration No. 73,612

Tel: +972-54-4444577
Fax: +972-9-7442619
e-mail:yehuda@maypatents.com

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Exhibit 2042
Page #301

PTO/AIA/22 (03-13)
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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): SIVAN-001-US3

Application Number: 15/992,217

Filed: May 30, 2018

For: REAL TIME ASSESSMENT OF PICTURE QUALITY

Art Unit: 2698

Examiner: Hannett, James M

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	$ 300
☐ Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
☐ 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 601835.

☐ 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 73612.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Yehuda Binder/ — Signature

12-25-2019 — Date

Yehuda BINDER — Typed or printed name

+972-54-4444577 — 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.

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.

Electronic Patent Application Fee Transmittal

Application Number:	15992217
Filing Date:	30-May-2018
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	SIVAN-001-US3

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:				

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Exhibit 2042
Page #304

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	2252	1	300	300
Miscellaneous:				
			Total in USD ($)	**300**

Electronic Acknowledgement Receipt

EFS ID:	38136218
Application Number:	15992217
International Application Number:	
Confirmation Number:	7826
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Customer Number:	131926
Filer:	Yehuda Binder/Dorit Binder
Filer Authorized By:	Yehuda Binder
Attorney Docket Number:	SIVAN-001-US3
Receipt Date:	25-DEC-2019
Filing Date:	30-MAY-2018
Time Stamp:	14:38:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$300
RAM confirmation Number	E2019BOE39300267
Deposit Account	
Authorized User	

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

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Exhibit 2042
Page #306

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response-to-Non-Final-for-filing.pdf	70049 4c8b7a4f67187a1c78b78af3b62555f5a3dcd103	yes	18
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	9	
	Applicant Arguments/Remarks Made in an Amendment		10	18	
Warnings:					
Information:					
2	Extension of Time	0022-Extensions.pdf	140683 b571f1d01b6a6df6a0ec912c9941b400fa2f382f	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30456 b4f67f2545894ed3c289403c7b5a0decf4902bdf	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	241188		

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 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.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/992,217	Filing Date 05/30/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ 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	12/25/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 21	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $230 =	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		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ 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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/VINCENT S BUTLER/
*** 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.	

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.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

131926 7590 01/14/2020

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

EXAMINER
HANNETT, JAMES M

ART UNIT	PAPER NUMBER
2698	

DATE MAILED: 01/14/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

TITLE OF INVENTION: REAL TIME ASSESSMENT OF PICTURE QUALITY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	04/14/2020

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

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Page #310

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

131926 7590 01/14/2020
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

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.

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

TITLE OF INVENTION: REAL TIME ASSESSMENT OF PICTURE QUALITY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	04/14/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
HANNETT, JAMES M	2698	348-362000

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 03-09 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 _____
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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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. _____

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Page #311

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

131926 7590 01/14/2020

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

EXAMINER	
HANNETT, JAMES M	
ART UNIT	PAPER NUMBER
2698	

DATE MAILED: 01/14/2020

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.

SnapAid, Ltd.
Exhibit 2042
Page #312

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 30 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.

SnapAid, Ltd.
Exhibit 2042
Page #313

Notice of Allowability	Application No. 15/992,217	Applicant(s) SIVAN, Ishay	
	Examiner JAMES M HANNETT	Art Unit 2698	AIA (FITF) 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 the amendment filed 12/25/2019.
   ☐ 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 21-40 . 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)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JAMES M HANNETT/
Primary Examiner, Art Unit 2698

SnapAid, Ltd.
Exhibit 2042
Page #314

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

Claims 21-40 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not teach the method by the processor comprising use of at least one value and weight; obtaining a first value (QI1) responsive to the device motion from the motion or location sensor; estimating a first weight (c1) associated with the first; obtaining a second value (QI2) associated with the digital camera; estimating a second weight (c2) associated with the second value; analyzing the captured image for detecting or recognizing one or more objects in the image and obtaining a third value (Q13) associated with motion of at least one of said objects; estimating a third weight (c3) associated with the third value; obtaining a fourth value (Q14) associated with recognition of object characteristics; estimating a fourth weight (c4) associated with the fourth value; obtaining a fifth value (QI5) associated with aesthetic quality of image based on composition; estimating a fifth weight (c5) associated with the fifth value; and calculating a total quality value according to, or based on values QI1, Q12, Q13 and QI5 and weights c1, c2, c3, c4 and c5 when taken in combination with all the limitations of the independent claim. Furthermore, the prior art does not teach the method by the processor comprising use of at least one value and weight; obtaining a first value (QI1) responsive to the device motion from the motion or location sensor; estimating a first weight (c1) associated with the first; obtaining a second value (Q12) value is a combination of at least one of digital camera exposure, focus and under or over exposure; estimating a second weight (c2) associated with the second value; analyzing the captured image via deep learning algorithms for detecting or recognizing one or more objects in, or one or more characteristics of image or at least one of object characteristics to obtain a third value (Q13) associated with the analysis;

calculating a total quality value according to, or based on values QI1, QI2, Q13 and weights c1, c2, c3 and previous values QI1, QI2, Q13 and previous weights c1, c2, c3 in said image stream; and selecting by said processor at least one image from the plurality of images at least partly on said total quality value when taken in combination with all the limitations of the independent claim.

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 JAMES M HANNETT whose telephone number is (571)272-7309. The examiner can normally be reached 8:00 AM-5:00 PM Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached at 571-272-7406 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).

/JAMES M HANNETT/
Primary Examiner, Art Unit 2698

JMH
January 7, 2020

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	**Art Unit**
	JAMES M HANNETT	2698

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04N 5/2322, 5/23229 and 5/23258 (Combined with text search)	01/07/2020	JMH

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
East Search	01/07/2020	JMH
Inventor Name Search	01/07/2020	JMH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	PGPUB text Search	01/07/2020	JMH

	/JAMES M HANNETT/ Primary Examiner, Art Unit 2698

SnapAid Ltd.
Exhibit 2042
Page #317

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	**Art Unit**
	JAMES M HANNETT	2698

CPC						
Symbol					**Type**	**Version**
H04N	/	5	/	23222	F	2013-01-01
G06T	/	7	/	97	I	2017-01-01
H04N	/	5	/	23229	I	2013-01-01
H04N	/	5	/	23258	I	2013-01-01
G06T	/	7	/	0002	I	2013-01-01
G06K	/	9	/	00201	I	2013-01-01
H04N	/	5	/	23212	I	2013-01-01
H04N	/	5	/	23232	I	2013-01-01
H05K	/	999	/	99	I	2013-01-01
G06T	/	2207	/	10016	A	2013-01-01
G06T	/	2207	/	10032	A	2013-01-01
G06T	/	2207	/	30168	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/JAMES M HANNETT/ Primary Examiner, Art Unit 2698	07 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20200107

SnapAid, Ltd.
Exhibit 2042
Page #318

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	**Art Unit**
	JAMES M HANNETT	2698

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04N	/	5	/	232

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/JAMES M HANNETT/ Primary Examiner, Art Unit 2698 (Primary Examiner)	07 January 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20200107

SnapAid, Ltd.
Exhibit 2042
Page #319

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	**Art Unit**
	JAMES M HANNETT	2698

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19		28		37						
	2		11		20		29		38						
	3		12		21		30		39						
	4		13		22		31		40						
	5		14		23		32								
	6		15		24		33								
	7		16		25		34								
	8		17		26		35								
	9		18		27		36								

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/JAMES M HANNETT/ Primary Examiner, Art Unit 2698 (Primary Examiner)	07 January 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

SnapAid, Ltd.
Exhibit 2042
Page #320

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,217	SIVAN, Ishay
	Examiner	Art Unit
	JAMES M HANNETT	2698

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/25/2019	01/07/2020							
	1	✓	-							
	2	✓	-							
	3	✓	-							
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SnapAid, Ltd.
Exhibit 2042
Page #321

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	(("(20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 08:51
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S5	10616	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 08:55
S6	5	S4 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/10/23 08:56

SnapAid, Ltd.
Exhibit 2042

			EPO; JPO; DERWENT; IBM_TDB			
S7	3933	S5 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 08:56
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S9	1025	S8 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 08:56
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S16	20	S15 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:04
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S19	84	S18 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:44
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SnapAid, Ltd.
Exhibit 2042

			DERWENT; IBM_TDB			
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S27	28	S26 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:48
S28	2	S27 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:49
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S30	6	S29 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:51
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S32	102	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:53
S33	3104	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/10/23 09:54

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S34	4219	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:54
S35	5045	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:54
S36	11935	S33 or S34 or S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:54
S37	3	S36 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:54
S38	2483	S36 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:56
S39	50	S38 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:57
S40	1	S38 and (suggest$4 or recommend$4) with quality with table	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:57
S41	86518	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 09:59
S42	11	(predefined or pre-defined or	US-PGPUB;	OR	OFF	2015/10/23

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Exhibit 2042

		predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:00
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S44	24	S43 and (predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S45	20	S44 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S46	0	S45 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:02
S47	1	S45 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:04
S48	52	("20040075743" | "20050226499" | "20060061678" | "20060166738" | "20060221223" | "20060290804" | "20070019943" | "20070076960" | "20070263092" | "20080043108" | "20080278744" | "20080285860" | "20090046900" | "20090179998" | "20090193082" | "20090213213" | "20100117837" | "20110029635" | "20110075917" | "20110075930" | "20110307821" | "20120013783" | "20120022897" | "5164831" | "5694484" | "5875265" | "6282317" | "6516154" | "6671405" | "6778699" | "6801661" | "6816847" | "6930718" | "7362354" | "7924326" | "7979369" | "8081227" | "8125557" | "8199208" | "8830341").PN. OR ("2006/0017820" | "2011/0075930" | "8330826" | "9154692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/10/23 10:06
S49	34	S48 and quality with image	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/10/23 10:07

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S50	6	S49 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/10/23 10:07
S51	2	("20160191801").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:43
S52	5	(US-20110075930-$ or US-20060017820-$).did. or (US-8330826-$ or US-9154692-$ or US-8081227-$).did.	US-PGPUB; USPAT	OR	OFF	2016/11/19 09:47
S53	0	S52 and shake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:47
S54	2	S52 and motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/19 09:48
S55	1	S52 and motion adj sensor	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:05
S56	0	S52 and exposure same parameters	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S57	0	S52 and exposure same values	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S58	0	S52 and exposure same settings	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S59	2	S52 and exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:07
S60	0	S59 and auto-focus	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:13
S61	2	S59 and focus	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:13
S62	1	S59 and retake	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:18
S63	0	S59 and update with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:18
S64	18	quality with update with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:19
S65	682	quality with automatic with exposure	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22

S66	28557	quality with automatic with exposure wit hiso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22
S67	30568	quality with automatic with exposure wit iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:22
S68	0	quality with automatic with exposure with iso with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:23
S69	10	quality with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:23
S70	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S71	0	(retake or recapture) with automatic with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S72	0	(retake or recapture) with exposure with shutter with aperture	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S73	5	(retake or recapture) with exposure with different	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:29
S74	36	(retake or recapture) same exposure same different	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:31
S75	5	(retake or recapture) same exposure same different same quality	US-PGPUB; USPAT	OR	OFF	2016/11/19 10:31
S76	0	("("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S77	73	("20040174434" | "20060017820" | "20060056835" | "20070195174" | "20090263028" | "20090278958" | "20100026872" | "20100290673" | "20110096180" | "20110279700" | "20120086847" | "20120133816" | "20120182447" | "20130038771" | "20130050507" | "20130058561" | "20130063538" | "20130155474" | "20140050367" | "5125557" | "7362354" | "7688379" | "7920727" | "7982770" | "8040382" | "8131118" | "8244053" | "8285067").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S78	9	S77 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S79	5	S78 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2020/01/07 15:24

			EPO; JPO; DERWENT; IBM_TDB			
S80	18492	image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S81	5	S79 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S82	7461	S80 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S83	2089	S82 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S84	1547	S83 and quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S85	32	S83 and quality near4 indicator$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S86	4	("2015/0288874").URPN.	USPAT	OR	OFF	2020/01/07 15:24
S87	2	S79 and (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S88	1146	S83 and quality near4 image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24

S89	11187	image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S90	502	S89 and image with capture with automatic$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S91	59	S90 and confidence adj level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S92	5	S90 and confidence adj level with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S93	1321	sivan .in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S94	148	S93 and (real adj time or realtime or real-time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S95	2089	S83 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S96	32	S94 and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S97	6	S96 and image$2 with (real adj time or realtime or real-time) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2020/01/07 15:24

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Exhibit 2042

			DERWENT; IBM_TDB			
S98	150106	(real adj time or realtime or real-time) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S99	31948	S98 and imag$2 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S100	1815	S99 and quality .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S101	697	S100 and quality near4 image .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S102	34	S101 and buffer .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S103	3	S102 and image with capture with automatic$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S104	14	S101 and suggest$4 .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S105	10	S104 and user .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S106	56309	confidence adj level	US-PGPUB; USPAT; USOCR;	OR	OFF	2020/01/07 15:24

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S107	205	confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S108	9664	h04n5/23222.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S109	14988	h04n5/23229.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S110	10718	h04n5/23258.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S111	33507	S108 or S109 or S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S112	15	S111 and confidence adj level with quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S113	6252	S111 and quality with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S114	134	S113 and (suggest$4 or recommend$4) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S115	2	S113 and (suggest$4 or recommend$4)	US-PGPUB;	OR	OFF	2020/01/07

		with quality with table	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:24
S116	121819	(predefined or pre-defined or predetermined or pre-determined) with quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
S117	18	(predefined or pre-defined or predetermined or pre-determined) with quality with image with (suggestion$4 or recomend or recommendation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/07 15:24
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Bibliographic Data

Application No: 15/992,217

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JAMES M HANNETT/ Examiner's Signature | Initials

Title: REAL TIME ASSESSMENT OF PICTURE QUALITY

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
05/30/2018	348	2698	SIVAN-001-US3
RULE			

APPLICANTS

SnapAid Ltd., Tel Aviv, ISRAEL

INVENTORS

Ishay SIVAN Tel Aviv, ISRAEL

CONTINUING DATA

This application is a CON of 15582722 04/30/2017 PAT 10009537

15582722 is a CON of 15007253 01/27/2016 PAT 9661226

15007253 is a CON of 14437105 04/20/2015 PAT 9338348

14437105 is a 371 of PCT/IL2013/050856 10/22/2013

PCT/IL2013/050856 has PRO of 61759643 02/01/2013

PCT/IL2013/050856 has PRO of 61717216 10/23/2012

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

06/18/2018

**** SMALL ENTITY ****

STATE OR COUNTRY

ISRAEL

ADDRESS

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

FILING FEE RECEIVED

$835

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)

May Patents Ltd.
c/o Dorit Shem-Tov
P.O.B. 7230
Ramat-Gan 5217102,
Israel

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.

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.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

TITLE OF INVENTION:

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	Small	$500	$0	$0	$500	04/14/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS

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 May Patents Ltd. c/o Dorit Shem-Tov

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: SNAPAID LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): TEL AVIV ISRAEL 6935635

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 credit any overpayment, to Deposit Account Number 601835 (enclose an extra copy of this form).

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

☑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Yehuda Binder/ Date April 11, 2020

Typed or printed name Yehuda BINDER Registration No. 73,612

This collection of information 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.

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Exhibit 2042
Page #342

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.

Electronic Patent Application Fee Transmittal

Application Number:	15992217
Filing Date:	30-May-2018
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	SIVAN-001-US3

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	500	500

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Exhibit 2042
Page #344

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**500**

Electronic Acknowledgement Receipt

EFS ID:	39132810
Application Number:	15992217
International Application Number:	
Confirmation Number:	7826
Title of Invention:	REAL TIME ASSESSMENT OF PICTURE QUALITY
First Named Inventor/Applicant Name:	Ishay SIVAN
Customer Number:	131926
Filer:	Yehuda Binder/Dorit Binder
Filer Authorized By:	Yehuda Binder
Attorney Docket Number:	SIVAN-001-US3
Receipt Date:	12-APR-2020
Filing Date:	30-MAY-2018
Time Stamp:	11:34:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$500
RAM confirmation Number	E20204BB35117171
Deposit Account	
Authorized User	

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

SnapAid, Ltd.
Exhibit 2042
Page #346

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	ptol85b.pdf	75362 055a7a8557165e55fd65cfd20973fb0aac338169	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	29975 d5a1d1bbbca4a436143184d9fb874384af9f694d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	105337		

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 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.

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/19/2020	10659682	SIVAN-001-US3	7826

131926 7590 04/29/2020

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

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 0 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):

Ishay SIVAN, Tel Aviv, ISRAEL;
SnapAid Ltd., Tel Aviv, ISRAEL;

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Exhibit 2042
Page #348

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
15/992,217	**01/13/2025 08:28:14 AM Z ET**	**SIVAN-001-US3**

Title of Invention

REAL TIME ASSESSMENT OF PICTURE QUALITY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	10659682
CONFIRMATION #	7826	FILED BY	Dorit Binder
PATENT CENTER #	68702913	AUTHORIZED BY	Yehuda Binder
CUSTOMER #	131926	FILING DATE	05/30/2018
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Ishay SIVAN

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 601835	**E20251C928358009**	**Dorit Binder**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2811	CERTIFICATE OF CORRECTION	160.00	1	160.00
			TOTAL AMOUNT:	**$160.00**

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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 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: SIVAN-001-US3

In re Application of:	)	Confirmation No. 7826
US Patent No. 10,659,682	)	Art Unit: 2698
Appln. No.: 15/992,217	)	Examiner: Hannett, James M
Filed: May 30, 2018	)	Washington, D.C.
For: REAL TIME ASSESSMENT OF PICTURE QUALITY	)	January 12, 2025

REQUEST FOR CERTIFICATE OF CORRECTION

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Randolph Building,
Mail Stop Post Issue
401 Dulany Street
Alexandria, VA 22314

Sir:

The following is a request for a certificate of correction in US Application No. 15/992,217, now US Patent No. 10,659,682 based on ***37 CFR 1.322* – REQUEST FOR CERTIFICATE OF CORRECTION *OF OFFICE MISTAKE*.**

A certificate of correction under 35 USC 255 is respectfully requested in the above identified patent in accordance with the first statutory requirement concerns the nature, i.e. a typographical nature, of the mistake for which a correction is sought.

The exact location where the errors appear in the patent are as follows:

In Column 22, Lines 49-50, Claim 9, "value (p)" should be replaced with – value (μ) –; and "value (a)" should be replaced with – value –, as appears in a response to non-final office action filed on Dec. 25, 2019 as shown below:

"…for use with a probability distribution function using a mean value ~~(p)~~ (μ) and a standard deviation value ~~(a)~~ (σ), wherein …"

Furthermore, the following is a request for a certificate of correction in US Application No. 15/992,217, now US Patent No. 10,659,682 based on ***37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION OF APPLICANT'S MISTAKE.***

A certificate of correction under 35 USC 255 is respectfully requested in the above identified patent in accordance with the first statutory requirement concerns the nature, i.e. a typographical nature, of the mistake for which a correction is sought.

The exact location where the errors appear in the patent are as follows:

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Exhibit 2042
Page #352

In Column 21, Line 49, Claim 1, the word "value" should be added after the word "first" as shown below:

"…estimating a first weight (c1) associated with the first **value**; …"

In Column 21, Lines 64-65, Claim 1, the word "an" should be added before the word "aesthetic"; and the word "a" should be added before the word "composition" as shown below:

"…obtaining a fifth value (QI5) associated with **an** aesthetic quality of image based on **a** composition;…"

In Column 22, Line 2, Claim 1, the word "QI4" should be added after the word "QI3" as shown below:

"…calculating a total quality value according to, or based on values QI1, QI2, QI3, **QI4** and QI5 and weights c1, c2, c3, c4 and c5."

In Column 22, Line 32, Claim 5, the word "quality" should be added before the word "value" as shown below:

"…wherein the method further comprising controlling the auto-focus functionality according to, or based on, the second value (QI2) or the total **quality** value."

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Exhibit 2042
Page #353

In Column 22, Lines 37-38, Claim 7, the word "the" should be added before the word "aesthetic"; and the word "the" should be added before the word "composition" as shown below:
"…The method according to claim 1, wherein **the** aesthetic quality of image based on **the** composition includes…"

In Column 22, Line 45, Claim 8, the word "quality" should be added twice, before the word "value" as shown below:
"…the total **quality** value, and wherein the total **quality** value is calculated…"

In Column 22, Line 57, Claim 10, the words "the as" should be deleted as shown below:
"…further comprising calculating the mean value (μ) and ~~**the as**~~ the standard deviation value (σ) …"

In Column 22, Line 62, Claim 11, the word "quality" should be added after the word "value" as shown below:
"…wherein the acting comprises affecting the digital camera in response to the total **quality** value."

In Column 24, Line 9, Claim 17, the word "value" should be added after the word "first" as shown below:

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Exhibit 2042
Page #354

"…estimating a first weight (c1) associated with the first **value**; …"

In Column 24, Line 20, Claim 17, the sentence "estimating a third weight (c3) associated with the third value;" should be added as shown below:

"…analyzing the captured image via deep learning algorithms for detecting or recognizing one or more objects in, or one or more characteristics of image or at least one of object characteristics to obtain a third value (QI3) associated with the analysis;

estimating a third weight (c3) associated with the third value;

calculating a total quality value according to, or based on values QI1, QI2, QI3 and weights c1, c2, c3 and previous values QI1, QI2, QI3 and previous weights c1, c2, c3 in said image stream; and…"

In Column 24, Line 32, Claim 19, the ", QI4, QI5" should be deleted as shown below:

"…wherein algorithms of deep learning are used to compute at least one of the values (QI1, QI2, QI3~~, QI4, QI5~~)."

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Exhibit 2042
Page #355

Electronic Payment in the amount of US$ 160 is being made by deposit account no. 601835 to cover the fee for providing a correction of applicant's mistake, as set forth in 37 CFR 1.20(a).

The requested correction is attached on Form PTO 1050.

Respectfully submitted,

By / Yehuda Binder /
Yehuda Binder
Registration No. 73,612

Tel: 781-747-6018
Fax: +972-9-7442619
Email: yehuda@maypatents.com

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Exhibit 2042
Page #356

PTO/SB/44 (09-07)
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,659,682

APPLICATION NO.: 15/992,217

ISSUE DATE : May 19, 2020

INVENTOR(S) : Ishay Sivan

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 21, Line 49, Claim 1, the word "value" should be added after the word "first";
In Column 21, Lines 64-65, Claim 1, the word "an" should be added before the word "aesthetic"; and the word "a" should be added before the word "composition";
In Column 22, Line 2, Claim 1, the word "QI4" should be added after the word "QI3";
In Column 22, Line 32, Claim 5, the word "quality" should be added before the word "value";
In Column 22, Lines 37-38, Claim 7, the word "the" should be added before the word "aesthetic"; and the word "the" should be added before the word "composition";
In Column 22, Line 45, Claim 8, the word "quality" should be added twice, before the word "value";
In Column 22, Lines 49-50, Claim 9, "value (p)" should be replaced with - value (μ) -; and "value (a)" should be replaced with - value -;
In Column 22, Line 57, Claim 10, the words "the as" should be deleted;
In Column 22, Line 62, Claim 11, the word "quality" should be added after the word "value";
In Column 24, Line 9, Claim 17, the word "value" should be added after the word "first";
In Column 24, Line 20, Claim 17, the sentence "estimating a third weight (c3) associated with the third value;" should be added; and
In Column 24, Line 32, Claim 19, the ", QI4, QI5" should be deleted;

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

BINDER Yehuda
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
15/992,217	**01/13/2025 08:28:14 AM Z ET**	**SIVAN-001-US3**

Title of Invention

REAL TIME ASSESSMENT OF PICTURE QUALITY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	10659682
CONFIRMATION #	7826	FILED BY	Dorit Binder
PATENT CENTER #	68702913	FILING DATE	05/30/2018
CUSTOMER #	131926	FIRST NAMED INVENTOR	Ishay SIVAN
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Yehuda Binder

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Certificate of correction.pdf	6	Request for Certificate of Correction	43 KB
sb0044.pdf	2	Request for Certificate of Correction	299 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Certificate of correction.pdf	BB5899072B1820C18D7C84F288E41083A26C8C5F74F38A3A7 FD22187D73D6F7ADFCE1B31F8C62A964794CC25CFB7D4A8A AB90050BFFF45817F81B77F7DEE096B
sb0044.pdf	402E11F1785B4F0CA467DEB8DEBBB1398891359A185CA94F7

EEE2B26B2CD6C8E06851057A526C9DBF34907528B979D8FC
5966B978C869E173953CE1E79028539

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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 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.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 10,659,682 B2
APPLICATION NO. : 15/992217
DATED : May 19, 2020
INVENTOR(S) : Ishay Sivan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

In Column 21, Line 49, Claim 1, the word "value" should be added after the word "first";
In Column 21, Lines 64-65, Claim 1, the word "an" should be added before the word "aesthetic"; and the word "a" should be added before the word "composition";
In Column 22, Line 2, Claim 1, the word "QI4" should be added after the word "QI3";
In Column 22, Line 32, Claim 5, the word "quality" should be added before the word "value";
In Column 22, Lines 37-38, Claim 7, the word "the" should be added before the word "aesthetic"; and the word "the" should be added before the word "composition";
In Column 22, Line 45, Claim 8, the word "quality" should be added twice, before the word "value";
In Column 22, Lines 49-50, Claim 9, "value (p)" should be replaced with -- value (μ) --; and "value (a)" should be replaced with -- value --;
In Column 22, Line 57, Claim 10, the words "the as" should be deleted;
In Column 22, Line 62, Claim 11, the word "quality" should be added after the word "value";
In Column 24, Line 9, Claim 17, the word "value" should be added after the word "first";
In Column 24, Line 20, Claim 17, the sentence "estimating a third weight (c3) associated with the third value;" should be added; and
In Column 24, Line 32, Claim 19, the ", QI4, QI5" should be deleted.

Signed and Sealed this
Twenty-fifth Day of February, 2025

Coke Morgan Stewart
Acting Director of the United States Patent and Trademark Office

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Exhibit 2042
Page #361

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,217	05/30/2018	Ishay SIVAN	SIVAN-001-US3	7826

131926 7590 02/25/2025

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

EXAMINER
HANNETT, JAMES M

ART UNIT	PAPER NUMBER
2698	

NOTIFICATION DATE	DELIVERY MODE
02/25/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dorit.shemtov@gmail.com
uspto.may.patents@gmail.com
ybybyb1@gmail.com

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Exhibit 2042
Page #362

APPLICATION NO.	ISSUE DATE	PATENT NO.
15/992,217	25-Feb-2025	10659682

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
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ELECTRONIC CERTIFICATE OF CORRECTION NOTIFICATION

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The electronic certificate of correction is the official certificate of correction under 35 U.S.C. 254 or 255. For more information, please visit https://www.uspto.gov/electronicgrants.

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Exhibit 2042
Page #363

TO: uspto.may.patents@gmail.com,dorit.shemtov@gmail.com,ybybyb1@gmail.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 131926

Tue Feb 25 05:00:40 EST 2025

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Application	Document	Mailroom Date	Attorney Docket No.
15992217	COCOUT	02/25/2025	SIVAN-001-US3

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Sincerely,

The Patent Center Team

TO: uspto.may.patents@gmail.com,dorit.shemtov@gmail.com,ybybyb1@gmail.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - eGrant Notification for Customer Number 131926

Tue Feb 25 07:14:57 EST 2025

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Correspondence Address:

May Patents Ltd. c/o Dorit Shem-Tov
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Ramat-Gan,null,5217102
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Application	Patent	Document	Mailroom Date	Attorney Docket No.
15992217	10659682	ECOFC.NTF	02/25/2025	SIVAN-001-US3

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Sincerely,

The Patent Center Team