

|                                                                                                                                                                                                                  |                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8                                                                                                                                                                      |                                       |
| I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date: |                                       |
| Date: <u>September 25, 2019</u> Name: <u>Patricia Chiovari</u>                                                                                                                                                   | Signature: <u>/Patricia Chiovari/</u> |



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| In re Appln. Charles Lee Oakes III, et al.<br>of: |                          |
| Appln. No.: 16/507,595                            | Examiner: To be assigned |
| Filed: July 10, 2019                              | Art Unit: 3693           |
| For: DIGITAL CAMERA PROCESSING<br>SYSTEM          | Conf. No.: 4037          |
| Attorney Docket No.: US-0152.11   14538-668       |                          |

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF  
NONPROVISIONAL APPLICATION FILED UNDER 37 CFR 1.53(b)  
FILING DATE GRANTED**

Mail Stop Missing Parts  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir/Madam:

In accordance with the Notice to File Missing Parts of Nonprovisional Application Filed Under 37 CFR 1.53(b) Filing Date Granted dated July 24, 2019, enclosed herewith for filing are the following documents for the above-referenced patent application:

- ☐ Fully executed Declaration for Patent Application
- ☐ Fully executed Power of Attorney
- ☐ Fully executed Combined Declaration and Power of Attorney
- ☐ Petition for Ext. of Time (37 CFR § 1.136(a)) to File Missing Parts (if by mail, in dup)
- ☐ Other: \_\_\_\_\_

Applicant is: ☐ small entity (per 37 CFR 1.27) ☒ other than small entity

**Fees Associated with Payment:**

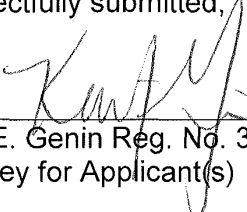
- ☒ Filing Fee: \$300
- ☒ Surcharge: \$160
- ☐ Addtl. Claim Fees: \$\_\_\_\_\_ for \_\_\_\_\_ additional claims
- ☒ Search Fee: \$660
- ☒ Examination Fee: \$760
- ☐ App. Size Fee: \$\_\_\_\_\_ (for each additional 50 sheets that exceeds 100 sheets, including specification and drawings)

**Payment Method:**

- ☒ The Commissioner is hereby authorized to charge \$1880 to cover the fees listed above to Deposit Account No. 50-4184.
- ☐ Payment by credit card in the amount of \$\_\_\_\_\_ to cover the fees listed above. Form PTO-2038 is enclosed for this purpose.
- ☒ The Commissioner is hereby authorized to charge any deficiencies in fees or credit overpayment to Deposit Account No. 50-4184.

Respectfully submitted,

September 25, 2019  
Date

  
\_\_\_\_\_  
Kent E. Genin Reg. No. 37,834  
Attorney for Applicant(s)

BRINKS GILSON & LIONE  
PO BOX 10395  
CHICAGO, IL 60610  
(312) 321-4200

**REMARKS**

Applicant has canceled original claims 1-24 without prejudice and has added new claims 25-44. Applicant submits that no new matter has been added with these amendments. Entry and consideration of these amendments is respectfully requested.

Respectfully submitted,



---

Kent E. Genin  
Registration No. 37,834  
Attorney for Applicant

BRINKS GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, ILLINOIS 60610  
(312) 321-4200

**CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8**

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 Date: September 25, 2019 Name: Patricia Chiovari Signature: /Patricia Chiovari/



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appln. of: Charles Lee Oakes III, et al.

Appln. No.: 16/507,595

Filed: July 10, 2019

For: DIGITAL CAMERA PROCESSING  
SYSTEM

Examiner: To be assigned

Art Unit: 3693

Conf. No.: 4037

Attorney Docket No.: US-0152.11 | 14538-668

**TRANSMITTAL**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

**Attached is/are:**

☒ Preliminary Amendment; and Response to Notice to File Missing Parts.

**Fee calculation:**

- ☐ No additional fee is required.
- ☐ Per 37 CFR §1.27, ☐ Applicant is small entity ☐ Applicant is micro entity.
- ☐ An extension fee in an amount of \$\_\_\_\_\_ for a \_\_\_\_\_-month extension of time under 37 CFR § 1.136(a).
- ☐ A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 CFR § 1.1\_\_\_\_\_(\_\_\_\_\_).
- ☐ An additional filing fee has been calculated as shown below:

|                                           |                                        |       |                                   |                  | Fee       |              | Small Entity Fee |              | Micro Entity Fee |              |
|-------------------------------------------|----------------------------------------|-------|-----------------------------------|------------------|-----------|--------------|------------------|--------------|------------------|--------------|
|                                           | Claims<br>Remaining After<br>Amendment |       | Highest No.<br>Previously<br>Paid | Present<br>Extra | Rate      | Add'l<br>Fee | Rate             | Add'l<br>Fee | Rate             | Add'l<br>Fee |
| Total                                     |                                        | Minus |                                   |                  | x \$100 = | \$           | x \$ 50 =        | \$           | x \$25 =         | \$           |
| Independent                               |                                        | Minus |                                   |                  | x \$460 = | \$           | x \$230 =        | \$           | x \$115 =        | \$           |
| First Presentation of Multiple Dep. Claim |                                        |       |                                   |                  | + \$820 = | \$           | + \$410 =        | \$           | + \$205 =        | \$           |
|                                           |                                        |       |                                   |                  | Total     | \$           | Total            | \$           | Total            | \$           |

**Fee payment:**

- ☒ Please charge Deposit Account No. 50-4184 in the amount of \$1880 for Filing Fee (\$300); Surcharge (\$160); Search Fee (\$660); and Examination Fee (\$760).
- ☐ Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).  
**WARNING:** Information on this form may become public. Credit card information should not be included on this form.
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 50-4184.

Respectfully submitted,

September 25, 2019  
Date

Kent E. Genin (Reg. No. 37,834)

BRINKS GILSON & LIONE  
NBC Tower – Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL 60611-5599

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:  
 Date: September 25, 2019 Name: Patricia Chiovari Signature: /Patricia Chiovari/



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appln. of: Charles Lee Oakes III, et al.

Appln. No.: 16/507,595

Examiner: To be assigned

Filed: July 10, 2019

Art Unit: 3693

For: DIGITAL CAMERA PROCESSING  
SYSTEM

Conf. No.: 4037

Attorney Docket No.: US-0152.11 | 14538-668

**TRANSMITTAL**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

**Attached is/are:**

☒ Petition and Fee for Extension of Time (1 month).

**Fee calculation:**

- ☐ No additional fee is required.
- ☐ Per 37 CFR §1.27, ☐ Applicant is small entity ☐ Applicant is micro entity.
- ☒ An extension fee in an amount of \$200 for a 1-month extension of time under 37 CFR § 1.136(a).
- ☐ A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 CFR § 1.1\_\_\_\_\_(\_\_\_\_\_).
- ☐ An additional filing fee has been calculated as shown below:

|                                           |                                  |       |                             |               | Fee       |           | Small Entity Fee |           | Micro Entity Fee |           |
|-------------------------------------------|----------------------------------|-------|-----------------------------|---------------|-----------|-----------|------------------|-----------|------------------|-----------|
|                                           | Claims Remaining After Amendment |       | Highest No. Previously Paid | Present Extra | Rate      | Add'l Fee | Rate             | Add'l Fee | Rate             | Add'l Fee |
| Total                                     |                                  | Minus |                             |               | x \$100 = | \$        | x \$ 50 =        | \$        | x \$25 =         | \$        |
| Independent                               |                                  | Minus |                             |               | x \$460 = | \$        | x \$230 =        | \$        | x \$115 =        | \$        |
| First Presentation of Multiple Dep. Claim |                                  |       |                             |               | + \$820 = | \$        | + \$410 =        | \$        | + \$205 =        | \$        |
|                                           |                                  |       |                             |               | Total     | \$        | Total            | \$        | Total            | \$        |

**Fee payment:**

- ☒ Please charge Deposit Account No. 23-1925 in the amount of \$200 for Extension of Time.
- ☐ Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).  
**WARNING:** Information on this form may become public. Credit card information should not be included on this form.
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

Respectfully submitted,

Kent E. Genin (Reg. No. 37,834)

September 25, 2019  
Date

BRINKS GILSON & LIONE  
NBC Tower – Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL 60611-5599

| Electronic Patent Application Fee Transmittal      |          |                                  |        |                      |
|----------------------------------------------------|----------|----------------------------------|--------|----------------------|
| <b>Application Number:</b>                         |          | 16507595                         |        |                      |
| <b>Filing Date:</b>                                |          | 10-Jul-2019                      |        |                      |
| <b>Title of Invention:</b>                         |          | DIGITAL CAMERA PROCESSING SYSTEM |        |                      |
| <b>First Named Inventor/Applicant Name:</b>        |          | Charles Lee Oakes                |        |                      |
| <b>Filer:</b>                                      |          | Kent E. Genin/Tricia Chiovari    |        |                      |
| <b>Attorney Docket Number:</b>                     |          | US-0152.11(14538-668)            |        |                      |
| Filed as Large Entity                              |          |                                  |        |                      |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |          |                                  |        |                      |
| Description                                        | Fee Code | Quantity                         | Amount | Sub-Total in USD(\$) |
| <b>Basic Filing:</b>                               |          |                                  |        |                      |
| UTILITY APPLICATION FILING                         | 1011     | 1                                | 300    | 300                  |
| UTILITY SEARCH FEE                                 | 1111     | 1                                | 660    | 660                  |
| UTILITY EXAMINATION FEE                            | 1311     | 1                                | 760    | 760                  |
| <b>Pages:</b>                                      |          |                                  |        |                      |
| <b>Claims:</b>                                     |          |                                  |        |                      |
| <b>Miscellaneous-Filing:</b>                       |          |                                  |        |                      |
| LATE FILING FEE FOR OATH OR DECLARATION            | 1051     | 1                                | 160    | 160                  |
| <b>Petition:</b>                                   |          |                                  |        |                      |

| 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 (\$)                 |          |          |        | 1880                 |

| Electronic Patent Application Fee Transmittal      |                 |                                  |               |                             |
|----------------------------------------------------|-----------------|----------------------------------|---------------|-----------------------------|
| <b>Application Number:</b>                         |                 | 16507595                         |               |                             |
| <b>Filing Date:</b>                                |                 | 10-Jul-2019                      |               |                             |
| <b>Title of Invention:</b>                         |                 | DIGITAL CAMERA PROCESSING SYSTEM |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        |                 | Charles Lee Oakes                |               |                             |
| <b>Filer:</b>                                      |                 | Kent E. Genin/Tricia Chiovari    |               |                             |
| <b>Attorney Docket Number:</b>                     |                 | US-0152.11(14538-668)            |               |                             |
| Filed as Large Entity                              |                 |                                  |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                 |                                  |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b> | <b>Quantity</b>                  | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                 |                                  |               |                             |
| <b>Pages:</b>                                      |                 |                                  |               |                             |
| <b>Claims:</b>                                     |                 |                                  |               |                             |
| <b>Miscellaneous-Filing:</b>                       |                 |                                  |               |                             |
| <b>Petition:</b>                                   |                 |                                  |               |                             |
| <b>Patent-Appeals-and-Interference:</b>            |                 |                                  |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>           |                 |                                  |               |                             |
| <b>Extension-of-Time:</b>                          |                 |                                  |               |                             |

| Description                       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|----------|--------|----------------------|
| Extension - 1 month with \$0 paid | 1251     | 1        | 200    | 200                  |
| <b>Miscellaneous:</b>             |          |          |        |                      |
| <b>Total in USD (\$)</b>          |          |          |        | <b>200</b>           |

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:

Date: September 25, 2019 Name: Patricia Chiovari

Signature: /Patricia Chiovari/



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appln. of: Charles Lee Oakes III, et al.

Appln. No.: 16/507,595

Examiner: To be assigned

Filed: July 10, 2019

Art Unit: 3693

For: DIGITAL CAMERA PROCESSING  
SYSTEM

Conf. No.: 4037

Attorney Docket No.: US-0152.11 | 14538-668

**PETITION AND FEE FOR EXTENSION OF TIME (37 CFR § 1.136(a))**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir/Madam:

This is a petition for an extension of the time to respond to the Notice to File Missing Parts dated July 24, 2019 for a period of 1 month(s).

Per 37 CFR §1.27, ☐ Applicant is small entity ☐ Applicant is micro entity.

|                                     | <b>Extension<br/>Months</b> | <b>Fee</b> | <b>Small Entity Fee</b> | <b>Micro Entity Fee</b> |
|-------------------------------------|-----------------------------|------------|-------------------------|-------------------------|
| <input checked="" type="checkbox"/> | One Month                   | \$ 200     | \$ 100                  | \$ 50                   |
| <input type="checkbox"/>            | Two Months                  | \$ 600     | \$ 300                  | \$150                   |
| <input type="checkbox"/>            | Three Months                | \$1,400    | \$ 700                  | \$350                   |
| <input type="checkbox"/>            | Four Months                 | \$2,200    | \$1,100                 | \$550                   |
| <input type="checkbox"/>            | Five Months                 | \$3,000    | \$1,500                 | \$750                   |

**Payment Method:**

- ☒ The Commissioner is hereby authorized to charge \$200 to cover the fees listed above to Deposit Account No. 23-1925.
- ☐ Payment by credit card in the amount of \$\_\_\_\_\_ to cover the fees listed above. Form PTO-2038 is enclosed for this purpose.
- ☒ The Commissioner is hereby authorized to charge any deficiencies in fees or credit overpayment to Deposit Account No. 23-1925.

Respectfully submitted,

September 25, 2019  
Date

\_\_\_\_\_  
Kent E. Gerin Reg. No. 37,834  
Attorney for Applicant(s)

BRINKS GILSON & LIONE  
PO BOX 10395  
CHICAGO, IL 60610  
(312) 321-4200



UNITED STATES PATENT AND TRADEMARK OFFICE

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

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/507,595         | 07/10/2019            | Charles Lee Oakes III | US-0152.11(14538-668)  |

**CONFIRMATION NO. 4037**

**FORMALITIES LETTER**

16530  
BGL  
P.O. Box 10395  
Chicago, IL 60611



Date Mailed: 08/21/2019

**NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)**

*Filing Date Granted*

The U.S. Patent and Trademark Office has received your reply on 08/19/2019 to the NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION (Notice) mailed 07/24/2019 and it has been entered into the application. The reply, however, is not a complete reply for the reason(s) listed below. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O.Box 1450, Alexandria VA 22313-1450.

**The period for reply continues to run from the date of the Notice mailed 07/24/2019.** Applicant must submit all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the appropriate extension fee under the provisions of 37 CFR 1.136(a).

Applicant's reply to the Notice mailed on 07/24/2019 was received in the U.S. Patent and Trademark Office on 08/19/2019, after the expiration of the two month period for reply set forth in the Notice. The application will become abandoned unless applicant obtains an extension of the period for reply, as above. The petition must be accompanied by the appropriate fee as set forth in 37 CFR 1.17 (see the current fees below). The date on which the reply, the petition, and the fee have been filed is the date of the reply and also the date for purposes of determining the period of extension and the corresponding amount of the fee due. The expiration of the time period is determined by the amount of the fee paid. Applicant is advised that extensions may not be granted under 37 CFR 1.136(a) for more than FIVE MONTHS beyond the time period set in the Notice.

**Items Required to Avoid Abandonment:**

The required items noted below SHOULD be filed along with any items required above.

- The statutory basic filing fee is missing.
- The application search fee was not received.
- The application examination fee was not received.
- Additional claim fees of \$ **400** as an undiscounted entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Surcharge as set forth in 37 CFR 1.16(f) was not received.  
The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

page 1 of 3

**SUMMARY OF FEES DUE:**

The fee(s) required within **TWO MONTHS** from the date of the Notice to avoid abandonment is/are itemized below. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- \$ **300** basic filing fee.
- \$ **160** surcharge.
- \$ **660** search fee.
- \$ **760** examination fee.
- \$ **400** for **4** total claims over 20.
- \$( **0**) previous unapplied payment amount.
- \$ **2280** TOTAL FEE BALANCE DUE.

Mail date of Notice:

07/24/2019

Last date that extension may be obtained: (Note: The petition and fee must be received by this date, or include a proper certificate of mailing under 37 CFR 1.8 with a date on or before this date, and extend the time to include this date.)

02/24/2020

| Length of Extension of Time<br>(response due on or before) | Fee under 37 CFR 1.17(a) effective March 19, 2013 |              |              |
|------------------------------------------------------------|---------------------------------------------------|--------------|--------------|
|                                                            | Undiscounted                                      | Small Entity | Micro Entity |
| One Month (10/24/2019)                                     | \$200                                             | \$100        | \$50         |
| Two Months (11/24/2019)                                    | \$600                                             | \$300        | \$150        |
| Three Months (12/24/2019)                                  | \$1400                                            | \$700        | \$350        |
| Four Months (01/24/2020)                                   | \$2200                                            | \$1100       | \$550        |
| Five Months (02/24/2020)                                   | \$3000                                            | \$1500       | \$750        |

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice".

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

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

/cnguyen/

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| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |                                  |          |                                    |               | Application or Docket Number<br>16/507,595 |                    |                         |                    |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|------------------------------------|---------------|--------------------------------------------|--------------------|-------------------------|--------------------|--------------------|
| <b>APPLICATION AS FILED - PART I</b>                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | SMALL ENTITY                       |               | OTHER THAN SMALL ENTITY                    |                    |                         |                    |                    |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                        | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                     | RATE(\$) | FEE(\$)                            |               | RATE(\$)                                   | FEE(\$)            |                         |                    |                    |
| BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 300                |                         |                    |                    |
| SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 660                |                         |                    |                    |
| EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 760                |                         |                    |                    |
| TOTAL CLAIMS<br>(37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                           | 24                                                                                                                                                                                                                            | minus 20 =<br>*                  | 4        |                                    |               | x 100 =                                    | 400                |                         |                    |                    |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                     | 3                                                                                                                                                                                                                             | minus 3 =<br>*                   |          |                                    |               | x 460 =                                    | 0.00               |                         |                    |                    |
| APPLICATION SIZE FEE<br>(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               |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  |          | TOTAL                              |               | TOTAL                                      | 2120               |                         |                    |                    |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| <b>APPLICATION AS AMENDED - PART II</b>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | (Column 3)                         |               | SMALL ENTITY                               |                    | OTHER THAN SMALL ENTITY |                    |                    |
| AMENDMENT A                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                | Minus    | ***                                | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  |          |                                    |               | TOTAL<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                       |          | (Column 3)                         |               | SMALL ENTITY                               |                    | OTHER THAN SMALL ENTITY |                    |                    |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                | Minus    | ***                                | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  |          |                                    |               | TOTAL<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3.<br>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".<br>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".<br>The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1. |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |



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(54) **Apparatus and method for photographing a business card in a portable terminal**

(57) Provided are an apparatus and method for photographing a business card in a portable terminal. The method includes recognizing boundary lines of the business card from an image received from a camera when

a recognition and photographing key for a business card is selected, and allowing the business card to be automatically photographed by using the recognized boundary lines.

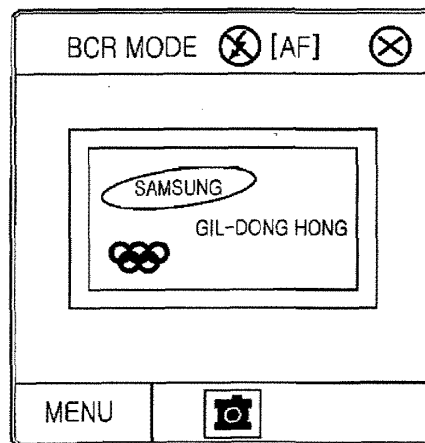


**FIG.3A**

**EP 1 855 459 A2**

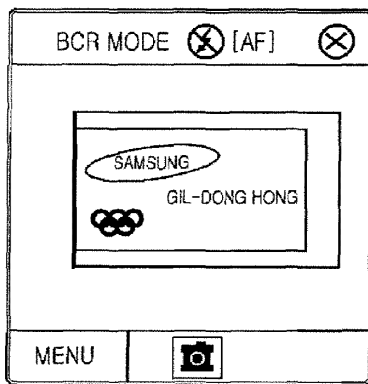


FIG.3B

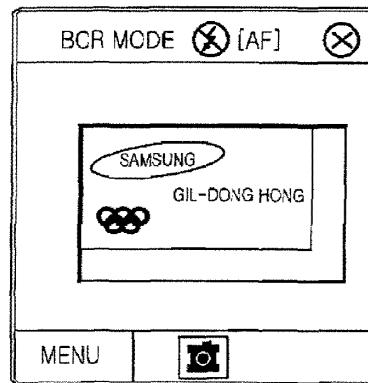


FIG.3C

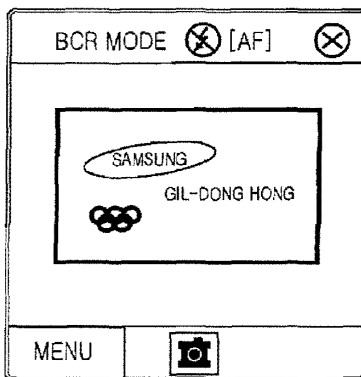


FIG.3D

## Description

**[0001]** The present invention relates generally to a portable terminal, and in particular, to an apparatus and method for allowing a business card to be automatically photographed by detecting the boundary lines of the business card.

**[0002]** In general, most persons exchange their business cards presenting their simple profiles and contacts when they meet a guest for the first time. In this way, tens of business cards may be exchanged each day. In this case, a person must keep and manage the received business cards in a business card case or a purse by himself/herself, and search all the business cards in order to find the business card of a specific guest.

**[0003]** Accordingly, portable terminals which have recently been developed are capable of photographing a business card using a camera, and providing a business card recognition function in order to recognize the business card and manage information regarding the owner of the business card. In this case, similarly to a general photographing process, the business card is photographed based on a user's subjective judgment without limiting the size and location of the business card that is to be displayed on a display unit of the portable terminal. In other words, the user photographs the business card by adjusting the size and location of the business card that is to be displayed on the display unit of the portable terminal by manually moving the portable terminal, and selecting a key button or a menu for photographing the business card when the adjusted size and location of the business card are determined to be appropriate for photographing.

**[0004]** In the business card recognition function, the probability of satisfactorily recognizing the business card in order to obtain the information contained in the business card varies depending on photographing conditions, such as the size, brightness, and image quality of the photographed business card. Thus, as described above, when the user photographs the business card based on his/her subjective judgment, the business card may be photographed to be too large, small or dark, thereby lowering the probability of satisfactorily recognizing the business card. Also, as described above, when the user manually selects a key button or a menu in order to photograph the business card, shaking may occur due to the selecting of the key button or the menu, and thus, shaking noise may be present in an image of the photographed business card, thereby significantly lowering the probability of satisfactorily recognizing the business card.

**[0005]** The present invention has been designed to substantially solve at least the above problems and/or disadvantages and to provide at least the advantages below. Accordingly, the object of the present invention is to provide an apparatus and method for photographing a business card in a portable terminal.

**[0006]** This object is solved by the subject matter of the independent claims.

**[0007]** Preferred embodiments are defined in the dependent claims.

**[0008]** Another aspect of the present invention is to provide an apparatus and method for allowing a business card to be automatically photographed by recognizing the boundary lines of the business card in a portable terminal.

**[0009]** A further aspect of the present invention is to provide an apparatus and method for photographing a business card in a portable terminal by providing a user with an environment appropriate for photographing the business card.

**[0010]** According to one aspect of the present invention, there is provided a method of photographing a business card in a portable terminal, the method including recognizing boundary lines of the business card from an image received from a camera when a key for recognizing and photographing the business card is selected, and allowing the business card to be automatically photographed by using the recognized boundary lines.

**[0011]** According to another aspect of the present invention, there is provided an apparatus for photographing a business card in a portable terminal, the apparatus including an image processor that recognizes boundary lines of the business card from an image received from a camera when a menu for recognizing and photographing the business card is selected, and a controller that controls the business card to be automatically photographed using the recognized boundary lines.

**[0012]** The above and other aspects, features and advantages of the present invention will become more apparent from the following detailed description when taken in conjunction with the accompanying drawings in which:

FIG. 1 is a block diagram of a portable terminal according to the present invention;

FIG. 2 is a flowchart illustrating a method of photographing a business card in a portable terminal, according to the present invention; and

FIG. 3 illustrates screen images illustrating photographing a business card in a portable terminal, according to the present invention.

**[0013]** Preferred embodiments of the present invention will be described herein below with reference to the accompanying drawings. In the following description, well-known functions or constructions are not described in detail when it is determined that they would obscure the invention in unnecessary detail.

**[0014]** The present invention provides a user with an environment appropriate for photographing a business card, and an apparatus and method for allowing a business card to be automatically photographed by recognizing the boundary lines of the business card.

**[0015]** FIG. 1 is a block diagram of a portable terminal according to the present invention. Referring to FIG. 1,

the portable terminal includes a controller 100, a camera unit 102, an image processor 104, and a display unit 106. The controller 100 performs processing or controlling in order to establish a voice/data communications. In particular, in order to photograph a business card, the controller 100 receives brightness data from the camera unit 102, checks a brightness environment under which the business card is to be photographed, and controls whether to perform automatic photographing on the business card. Also, the controller 100 displays on the display unit 106 reference boundary lines, for presenting a size and location, of a business card, which are appropriate for recognizing the business card; and determines whether the boundary lines of the business card received from the image processor 104 coincide with the reference boundary lines. If they coincide with one another, the controller 100 controls automatic photographing to be performed.

**[0016]** The camera unit 102 includes a camera sensor that converts an optical signal, which is sensed when an image is photographed, into an analog image signal; and a signal processor that converts the analog image signal into a digital data. The camera unit 102 outputs the digital data into which the analog image signal has been converted, to the image processor 104. Also, the camera unit 102 converts the brightness of an image received from the camera sensor into measurable brightness data, and transmits the brightness data to the controller 100. Here, the camera sensor may be embodied as a Charge Coupled Device (CCD) sensor, and the signal processor may be embodied as a Digital Signal Processor (DSP).

**[0017]** The image processor 104 processes the digital data received from the camera unit 102 in units of frames, and outputs the result of processing to be appropriate for the characteristics and size of the display unit 106. Also, the image processor 104 includes a video codec that codes an image signal in a predetermined format or decodes coded frame image data to the original frame image data. When a business card is photographed, the image processor recognizes the boundary lines of an image received from the camera unit 102, and detects a location where each of the boundary lines of the business card is recognized and provides the result of detecting to the controller 100 when the boundary lines are recognized. Here, the locations of the boundary lines of the business card may be detected by extracting the contour of the business card by using an algorithm, such as Sobel, Prewitt, Robert, or Laplacian algorithms.

**[0018]** The display unit 106 displays status information and characters (which consist of limited numbers) generated during the operation of the portable terminal. In particular the display unit 106 outputs an image received from the image processor 104, displays the reference boundary lines for the business card under control of the controller 100, and changes and displays the color, shape or thickness of each of the reference boundary lines.

**[0019]** FIG. 2 is a flowchart illustrating a method of pho-

graphing a business card in a portable terminal, according to an embodiment of the present invention.

**[0020]** Referring to FIGS. 1 and 2, first, the portable terminal determines whether a business card recognition and photographing mode has been selected, in step 201. If it is determined that the business card recognition and photographing mode has been selected, the portable terminal outputs an image received from the camera sensor to the display unit 106, and displays on the display unit 106 reference boundary lines for appropriately fixing the size and location of the business card that is to be photographed in step 203. For example, as illustrated in FIG. 3A, boundary lines for presenting a size and location of a business card, which are appropriate for recognizing the business card, are displayed as a rectangular frame in the center of the display unit 106. Here, the reference boundary lines present a location and size, of a business card, for achieving the highest probability of satisfactorily recognizing the business card; and may be obtained through an experiment.

**[0021]** Next, the portable terminal checks brightness data from the received image in step 205, and determines whether the current brightness of the image is appropriate for photographing the business card, that is, for recognizing the business card, based on the brightness data in step 207. Here, whether the current brightness is appropriate for photographing the business card may be determined by comparing the brightness data with a reference brightness value for recognizing the business card.

**[0022]** If it is determined that the current brightness is not appropriate for photographing the business card, the portable terminal displays a message indicating this fact on the display unit 106 in step 227, and then returns to operation 205. If it is determined that the current brightness is appropriate for photographing the business card, the portable terminal recognizes the boundary lines of the business card by analyzing an image received from the camera sensor in step 209. Next, the portable terminal proceeds to operation 211, and determines whether at least one of the reference boundary lines (upper, lower, left, and right boundary lines) coincides with the boundary lines of the photographed business card. Here, a predetermined margin of error is allowed when determining whether the reference boundary lines coincide with the boundary lines of the business card. For example, if the predetermined margin of error is 3 mm, the left boundary line of the business card can be determined to coincide with the left reference boundary line when the top (or bottom) of the left boundary line of the business card is 2 mm away from the top (or bottom) of the left reference boundary line in a vertical or horizontal direction.

**[0023]** If none of the reference boundary lines coincides with the boundary lines of the business card, the portable terminal returns to step 209. If at least one of the reference boundary lines coincides with the boundary lines of the business card, the portable terminal proceeds to step 213, and replaces the color of the coinciding ref-

erence boundary line with a predetermined color. For example, as illustrated in FIG. 3B, when one of the boundary lines of the photographed business card coincides with the left reference boundary line, the color of the left reference boundary line may be replaced with a predetermined, different color. If the boundary lines of the photographed business card coincide with the left and upper reference boundary lines, the colors of the left and upper reference boundary lines may be replaced with a predetermined, different color (FIG. 3C).

**[0024]** Next, the portable terminal determines whether all the upper, lower, left and right reference boundary lines coincide with the boundary lines of the business card in step 215. If all the reference boundary lines do not coincide with all the boundary lines of the business card, the portable terminal returns to step 209. If all the reference boundary lines completely coincide with the boundary lines of the business card as illustrated in FIG. 3D, the portable terminal proceeds to step 217 and displays a message informing the user of the start of automatic photographing for the business card. Here, it is possible to inform the user of the start of automatic photographing by generating a predetermined alarm sound of automatic photographing or changing the shapes, thicknesses or colors of the reference boundary lines.

**[0025]** Next, the portable terminal performs auto focusing in order to photograph the business card in step 219. Next, the portable terminal determines whether the reference boundary lines still coincide with the boundary lines of the business card even after performing auto focusing in step 225. If at least one of the reference boundary lines does not coincide with the boundary lines of the business card, the portable terminal changes the current color of the at least one reference boundary line, which does not coincide with the boundary lines of the business card, to a default color, i.e., the original color of the reference boundary line being initially displayed on the display unit 106 in step 221, and then returns to step 209. However, if all the reference boundary lines still coincide with all the boundary lines of the business card, the portable terminal photographs the business card in step 223, and ends the processes of the present invention.

**[0026]** In the current embodiment of the present invention, if the reference boundary lines coincide with the boundary lines of the business card, the colors of the coinciding reference boundary lines are replaced with a default color. However, the thicknesses or shapes of the coinciding reference boundary lines may be changed.

**[0027]** Alternate embodiments of the present invention can also comprise computer readable codes on a computer readable medium. The computer readable medium includes any data storage device that can store data that can be read by a computer system. Examples of a computer readable medium include magnetic storage media (such as ROM, floppy disks, and hard disks, among others), optical recording media (such as CD-ROMs or DVDs), and storage mechanisms such as carrier waves (such as transmission through the Internet). The compu-

ter readable medium can also be distributed over network coupled computer systems so that the computer readable code is stored and executed in a distributed fashion. Also, functional programs, codes, and code segments for accomplishing the present invention can be construed by programmers of ordinary skill in the art to which the present invention pertains.

**[0028]** As described above, according to the present invention, it is possible to allow a business card to be automatically photographed in a portable terminal by recognizing the boundary lines of the business card, thereby preventing shaking when a user selects a key button or a menu in order to photograph the business card. Further, it is possible to improve the probability of satisfactorily recognizing the business card by achieving a business card image having a size, location, and brightness that are appropriate for recognizing the business card.

**[0029]** While the invention has been shown and described with reference to certain preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the scope of the invention as defined by the appended claims.

## Claims

1. A method of photographing a business card in a portable terminal, the method comprising:

recognizing boundary lines of the business card from an image received from a camera when a recognition and photographing key for a business card is selected; and

allowing the business card to be automatically photographed by using the recognized boundary lines.

2. The method of claim 1, when the recognition and photographing key is selected, further comprising displaying on a display unit predetermined reference boundary lines and the image received from the camera.

3. The method of claim 1 or 2, wherein the allowing of the business card to be automatically photographed comprises:

determining whether the recognized boundary lines coincide with predetermined reference boundary lines; and

when the boundary lines of the business card coincide with the reference boundary lines, allowing the business card to be automatically photographed.

4. The method of claim 3, when at least one of the boundary lines of the business card coincides with

- the reference boundary lines, further comprising changing the at least one coinciding reference boundary line according to a predetermined method.
5. The method of claim 4, wherein the predetermined method comprises changing at least one of the color, shape, and thickness of the coinciding reference boundary line. 5
  6. The method of claim 3, when the business card boundary lines coincide with the reference boundary lines, further comprising informing a user that automatic photographing of the business card is to be performed. 10
  7. The method of claim 6, wherein the informing of the automatic photographing comprises changing at least one of the shape, thickness, and color of the coinciding reference boundary lines. 15
  8. The method of claim 6, wherein the informing of the automatic photographing comprises at least one of generating an alarm sound and displaying a message. 20
  9. The method of claim 3, wherein the allowing of the business card to be automatically photographed comprises: 25
    - performing auto focusing when the boundary lines of the business card coincide with the reference boundary lines; 30
    - determining whether the boundary lines of the business card still coincide with the reference boundary lines after performing auto focusing; 35
    - and
    - allowing the business card to be automatically photographed when the boundary lines of the business card still coincide with the reference boundary lines. 40
  10. The method of one of claims 1 to 9, further comprising: 45
    - when the recognition and photographing key is selected, determining whether the brightness of the image received from the camera satisfies a predetermined condition; and
    - when it is determined that the brightness of the image does not satisfy the predetermined condition, displaying a message requesting brightness control. 50
  11. An apparatus for photographing a business card in a portable terminal, the apparatus comprising: 55
    - an image processor for recognizing boundary lines of the business card from an image received from a camera when a menu for recognizing and photographing the business card is selected; and
    - a controller for controlling the business card to be automatically photographed using the recognized boundary lines.
  12. The apparatus of claim 11, further comprising a display unit for displaying reference boundary lines and the image received from the camera when the menu for recognizing and photographing the business card is selected.
  13. The apparatus of claim 12, wherein the controller controls the business card to be automatically photographed when the boundary lines of the business card coincide with the reference boundary lines.
  14. The apparatus of claim 12, wherein the controller performs auto focusing when the boundary lines of the business card coincide with the reference boundary lines.
  15. The apparatus of claim 12, wherein the display unit for displaying changes at least one coinciding reference boundary line according to a predetermined method when at least one of the boundary lines of the business card coincides with the reference boundary lines.
  16. The apparatus of claim 15, wherein the predetermined method comprises changing at least one of the color, shape, and thickness of the coinciding reference boundary line.
  17. The apparatus of one of claims 11 to 16, further comprising a camera unit for extracting brightness data from the image received from the camera, and providing the brightness data to the controller, wherein the controller compares the brightness data with a reference brightness value, and displays a message requesting brightness control on the display unit when the brightness data is less than the reference brightness value.
  18. A computer-readable recording medium having recorded thereon a program for photographing a business card in a portable terminal, comprising:
    - a first code segment, for recognizing boundary lines of the business card from an image received from a camera when a recognition and photographing key for a business card is selected; and
    - a second code segment, for allowing the business card to be automatically photographed by using the recognized boundary lines.

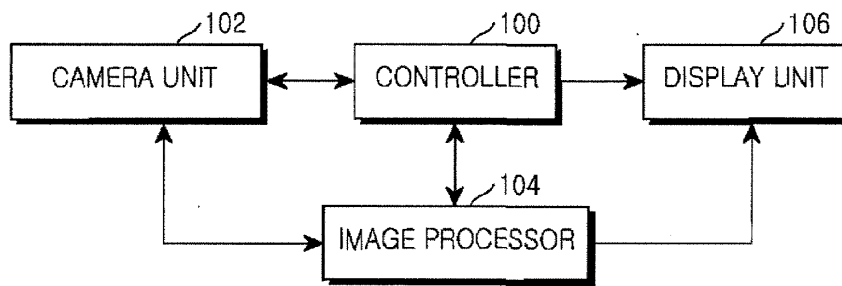


FIG.1

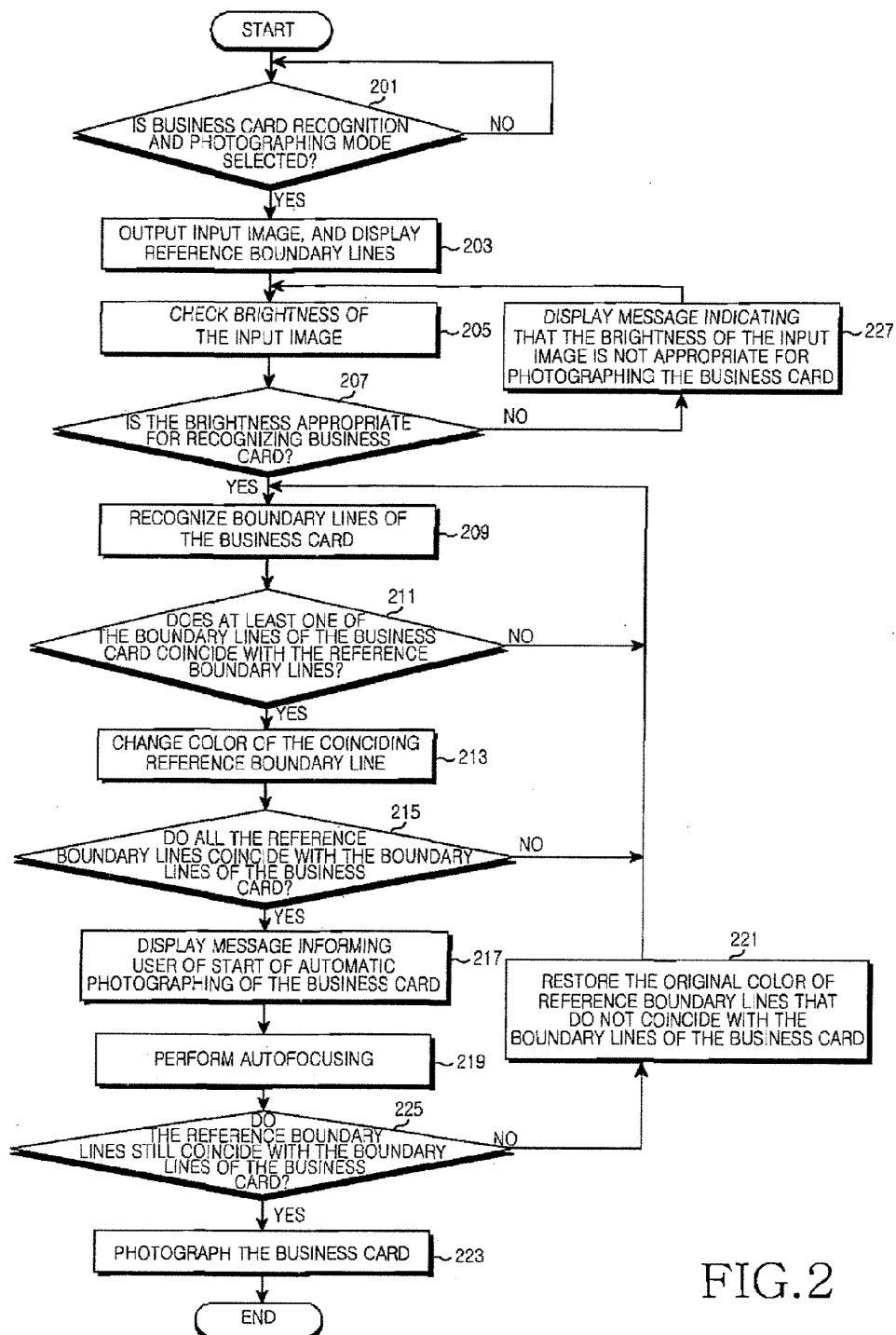


FIG.2

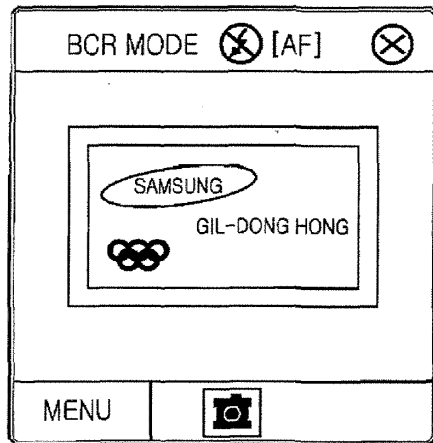


FIG. 3A

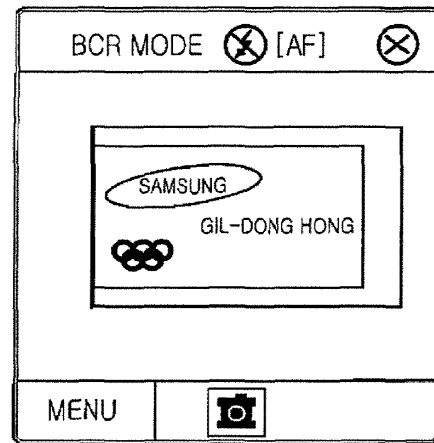


FIG. 3B

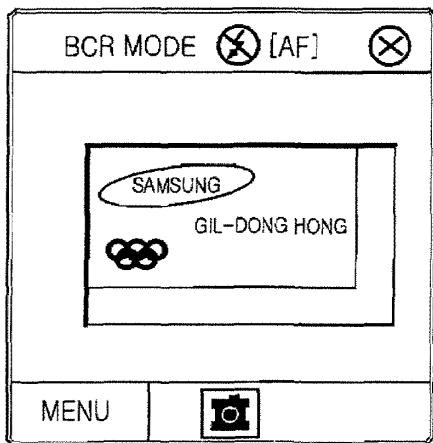


FIG. 3C

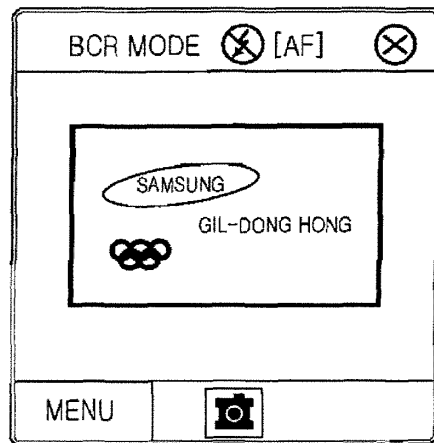


FIG. 3D

**CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8**

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:

Date: August 19, 2019 Name: Scott W. Brim (Reg. No. 51,500) Signature: /Scott W. Brim/



**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

|                      |                        |
|----------------------|------------------------|
| Application Number   | 16/507,595             |
| Filing Date          | July 10, 2019          |
| First Named Inventor | Charles Lee Oakes      |
| Art Unit             | 3693                   |
| Confirmation Number  | 4037                   |
| Examiner Name        | TBA                    |
| Attorney Docket No.  | US-0152.11 (14538-668) |

In accordance with the duty of disclosure, Applicant(s) hereby cites the following references:

**US PATENT REFERENCES**

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER<br><small>Number-Kind Code (if known)</small> | DATE       | NAME        |
|---------------------|----|---------------------------------------------------------------|------------|-------------|
|                     | B1 | US 7,793,833 B2                                               | 09/14/2010 | Yoon et al. |
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**FOREIGN PATENT REFERENCES**

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER<br><small>Number-Kind Code (if known)</small> | DATE       | COUNTRY | TRANSLATION<br>YES OR NO |
|---------------------|----|---------------------------------------------------------------|------------|---------|--------------------------|
|                     | B5 | EP 1 855 459 A2                                               | 05/10/2007 | Europe  |                          |

**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

| EXAMINER<br>INITIAL |     | Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.                                        |
|---------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | B6  | CBM2019-00005 Patent No. 8,699,779, Patent Owner's Sur-Reply Brief to Petitioner's Reply Brief to Patent Owner Preliminary Response Pursuant to Authorization Provided in Paper No. 15, dated May 1, 2019, 7 pgs.                                                             |
|                     | B7  | CBM2019-00004 Patent No. 8,977,571, Defendant's Claim Construction Brief and supporting exhibits, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated April 25, 2019, 36 pgs.                                               |
|                     | B8  | CBM2019-00004 Patent No. 8,977,571, Patent Owner's Sur-Reply Brief to Petitioner's Reply Brief to Patent Owner Preliminary Response Pursuant to Authorization Provided in Paper 14, dated April 30, 2019, 7 pgs.                                                              |
|                     | B9  | USAA's Reply to Claim Construction Brief, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 2, 2019, 15 pgs.                                                                                                          |
|                     | B10 | Plaintiff and Counterclaim Defendant's Answer to Defendant and Counterclaims Plaintiff's Amended Answer, Affirmative Defenses, & Counterclaims, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-366, dated April 26, 2019, 18 pgs. |
|                     | B11 | USAA's Reply Claim Construction Brief, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 2, 2019, 227 pgs.                                                                                                            |
|                     | B12 | Parties' P.R. 4-5(D) Joint Claim Construction Chart, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 9, 2019, 25 pgs.                                                                                               |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

# Information Disclosure Statement

Application No. 16/507,595

Attorney Docket No. US-0152.11 (14538-668)

|     |                                                                                                                                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B13 | CBM2019-00002 Patent No. 9,818,090, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated April 26, 2019, 5 pgs.               |
| B14 | CBM2019-00003 Patent No. 9,336,517, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated June 3, 2019, 28 pgs.                |
| B15 | CBM2019-00004 Patent No. 8,977,571, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated May 15, 2019, 33 pgs.                |
| B16 | CBM2019-00005 Patent No. 8,699,779, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated June 3, 2019, 27 pgs.                |
| B17 | USAA's Opening Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 17, 2019, 32 pgs.                                                              |
| B18 | Defendant's Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 31, 2019, 111 pgs.                                                                |
| B19 | Plaintiff's Notice of Filing Claim Construction Presentation, filed in Civil Action No. 2:18-CV-245, dated May 23, 2019, 106 pgs.                                        |
| B20 | IPR2019-01081 Patent No. 9,336,517, Petition for <i>Inter Partes</i> Review of Claims 1, 5-10, 12-14, 17-20 of US Patent No. 9,336,517, dated June 5, 2019, 78 pgs.      |
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| B24 | Claim Construction Memorandum Opinion and Order, filed in Civil Action No. 2:18-CV-245, dated June 13, 2019, 48 pgs.                                                     |
| B25 | Parties' P.R. 4-5(D) Joint Claim Construction Chart, filed in Civil Action No. 2:18-CV-366, dated June 14, 2019, 28 pgs.                                                 |
| B26 | Defendant's Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 31, 2019, 28 pgs.                                                                 |
| B27 | USAA's Reply Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated June 7, 2019, 14 pgs.                                                                |
| B28 | Wells Fargo's Objections to Magistrate Judge Payne's Claim Construction Memorandum Opinion and Order, filed in Civil Action No. 2:18-CV-245, dated June 27, 2019, 7 pgs. |
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| B31 | IPR2019-00815, Invalidity Chart, uploaded on June 27, 2019, 94 pgs.                                                                                                      |
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| Examiner<br>Signature |  | Date<br>Considered |  |
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# Information Disclosure Statement

Application No. 16/507,595

Attorney Docket No. US-0152.11 (14538-668)

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| B59 | Plaintiff's Notice of Decision Denying Institution of Covered Business Method Patent Review, filed in Civil Action No. 2:18-CV-245, dated May 15, 2019, 36 pgs.                                                                                                   |
| B60 | Defendant's Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated June 24, 2019, 28 pgs.                                                                                                                                                         |
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| Examiner<br>Signature |  | Date<br>Considered |  |
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# **Information Disclosure Statement**

Application No. 16/507,595

Attorney Docket No. US-0152.11 (14538-668)

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| B72 | Defendant Wells Fargo Bank, N.A.'s Amended Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-366, dated April 12, 2019, 32 pgs.                            |
| B73 | Plaintiff and Counterclaim Defendant's Answer to Defendant and Counterclaims Plaintiff's Amended Answer, Affirmative Defenses, & Counterclaims, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated March 21, 2019, 36 pgs. |

## **1. PRIORITY INFORMATION:**

- ☐ This application claims priority under 35 USC §120 to the following United States patent application(s): \_\_\_\_\_. In accordance with 37 CFR §1.98(d), copies of the references cited herein which were submitted to, or cited by, the office, in compliance with 37 CFR §1.98(a)-(c) in the earlier application are not provided herewith. The Examiner is directed to those references cited in all Information Disclosure Statements filed in the priority United States patent application(s) cited above in addition to the references cited herein.

## **2. CERTIFICATIONS: (CHECK ALL THAT APPLY)**

### **A. Certifications For 37 CFR §1.97(c) or 37 CFR §1.97(d):**

- ☐ Applicant hereby certifies pursuant to 37 CFR §1.97(e)(1) that each item of information in this 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 this Information Disclosure Statement.
- ☐ Applicant hereby certifies pursuant to 37 CFR §1.97(e)(2) that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c), more than three months prior to the filing of this Information Disclosure Statement.

### **B. For Patent Term Adjustment Purposes:**

- ☐ For purposes of 37 CFR §1.704(d)(i) or 37 CFR §1.704(d)(ii), Applicant is hereby submitting concurrently with this Information Disclosure Statement a completed Form PTO/SB/133 that certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a patent office in a counterpart foreign or international application or from the Office or is a communication that was issued by a patent office in a counterpart foreign or international application or by the Office, and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

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| Examiner<br>Signature |  | Date<br>Considered |  |
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### Information Disclosure Statement

Application No. 16/507,595

Attorney Docket No. US-0152.11 (14538-668)

#### 3. FEE INFORMATION: (CHECK IF FEE REQUIRED)

☐ Applicant has calculated a processing fee in the amount of \_\_\_\_\_ to be due under 37 CFR §1.17(p) in connection with the filing of this Information Disclosure Statement. Applicant authorizes charging the fee to Deposit Account 50-4184.

☒ The Director is hereby authorized to charge any fee deficiency associated with the filing of this Information Disclosure Statement to Deposit Account 50-4184.

Pursuant to the undersigned attorney's obligation and duties under 37 CFR §§ 1.56 and 1.98(a)(3) and (c), either English language abstracts, partial translations, or full translations are included for patent documents which are not in English for the express purpose of providing a concise explanation of the references to the Patent and Trademark Office with the opportunity to evaluate the same. Applicant respectfully requests the Examiner's consideration of the above reference(s) and entry thereof into the record of this application.

By submitting this Statement, Applicant is attempting to fully comply with the duty of candor and good faith mandated by 37 CFR §1.56. As such, this Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, constitutes "prior art" or is otherwise "material to patentability," as that phrase is defined in 37 CFR §1.56(a).

Respectfully submitted,

August 19, 2019  
Date

/Scott W. Brim/  
Scott W. Brim (Reg. No. 51,500)

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| Examiner<br>Signature |  | Date<br>Considered |  |
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| Electronic Acknowledgement Receipt          |                                  |
|---------------------------------------------|----------------------------------|
| <b>EFS ID:</b>                              | 36907245                         |
| <b>Application Number:</b>                  | 16507595                         |
| <b>International Application Number:</b>    |                                  |
| <b>Confirmation Number:</b>                 | 4037                             |
| <b>Title of Invention:</b>                  | DIGITAL CAMERA PROCESSING SYSTEM |
| <b>First Named Inventor/Applicant Name:</b> | Charles Lee Oakes                |
| <b>Customer Number:</b>                     | 16530                            |
| <b>Filer:</b>                               | Scott Wayne Brim/Juan Garibay    |
| <b>Filer Authorized By:</b>                 | Scott Wayne Brim                 |
| <b>Attorney Docket Number:</b>              | US-0152.11(14538-668)            |
| <b>Receipt Date:</b>                        | 19-AUG-2019                      |
| <b>Filing Date:</b>                         | 10-JUL-2019                      |
| <b>Time Stamp:</b>                          | 13:49:49                         |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)      |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
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### File Listing:

| Document Number | Document Description | File Name                 | File Size(Bytes)/<br>Message Digest       | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|---------------------------|-------------------------------------------|------------------|------------------|
| 1               | Transmittal Letter   | 14538-668_Transmittal.pdf | 87040                                     | no               | 1                |
|                 |                      |                           | 009c5858bfb8be9a0b78a70b9f7e269503054a404 |                  |                  |

### Warnings:

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|--------------|-----------------------|----------------------------------------------------------------|------------------------------------------|----|-----|
| Information: |                       |                                                                |                                          |    |     |
| 2            | Foreign Reference     | 5-EP1855459A2.pdf                                              | 536114                                   | no | 9   |
|              |                       |                                                                | 8fd6690fb2af83653f693e90f4a49586165f4efa |    |     |
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| Information: |                       |                                                                |                                          |    |     |
| 3            | Non Patent Literature | 6-<br>CBM2019-00005_PatentOwner<br>sSur-ReplyBrief-c.pdf       | 129857                                   | no | 7   |
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| 4            | Non Patent Literature | 7-<br>CBM2019-0004_DefendantsClaimConstructionBrief-c.pdf      | 462846                                   | no | 36  |
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| 6            | Non Patent Literature | 9-<br>CV-00245_USAAsReplyClaimConstructionBrief-c.pdf          | 272538                                   | no | 15  |
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| 7            | Non Patent Literature | 10-<br>PlaintiffCounterclaimDefendantAnswerCounterclaims-c.pdf | 167117                                   | no | 18  |
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| 8            | Non Patent Literature | 11-<br>USAAsReplyClaimConstructionBrief2-c.pdf                 | 15448222                                 | no | 227 |
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| 9            | Non Patent Literature | 12-JointClaimConstructionChart2-c.pdf         | 219087                                   | no | 25  |
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| 10           | Non Patent Literature | 13-DecisionDenyingCMB-Review-2019-00002-c.pdf | 83970                                    | no | 5   |
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| 11           | Non Patent Literature | 14-DecisionDenyingCBM-Review-2019-00003-c.pdf | 236712                                   | no | 28  |
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| 12           | Non Patent Literature | 15-DecisionDenyingCBM-Review-2019-00004-c.pdf | 305980                                   | no | 33  |
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| 13           | Non Patent Literature | 16-DecisionDenyingCBM-Review-2019-00005-c.pdf | 238789                                   | no | 27  |
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| 14           | Non Patent Literature | 17-USAA-OpeningClaimConstBrief-c.pdf          | 383727                                   | no | 32  |
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| 15           | Non Patent Literature | 18-DefendantsClaimConstBrief-c.pdf            | 4422337                                  | no | 111 |
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| 16           | Non Patent Literature | 19-<br>PlaintiffsNoticeFileConstBrief-c.<br>pdf                | 2874118                                  | no | 106 |
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| 17           | Non Patent Literature | 20-IPR2019-01081_IPR-<br>Petition517-c.pdf                     | 1085909                                  | no | 78  |
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| 18           | Non Patent Literature | 21-IPR2019-01082-<br>IPR_Petition571-c.pdf                     | 802254                                   | no | 75  |
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| 20           | Non Patent Literature | 23-<br>Plaintiff_NOTICE_DECISIONS_D<br>ENYING_CBM-REVIEW-c.pdf | 504049                                   | no | 61  |
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| 21           | Non Patent Literature | 24-<br>CLAIM_CONSTRUCTION_MEM<br>ORANDUM_OPINION-c.pdf         | 437185                                   | no | 48  |
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| 22           | Non Patent Literature | 25-<br>PARTIES_JOINT_CLAIM_CONST<br>RUCTION_CHART-c.pdf        | 302412                                   | no | 28  |
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| 23           | Non Patent Literature | 26-<br>CLAIM_CONSTRUCTION_BRIEF-<br>WellsFargo-c.pdf   | 573549                                    | no | 28 |
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| 24           | Non Patent Literature | 27-<br>USAA_REPLY_Claim_Construction_Brief_c.pdf       | 202071                                    | no | 14 |
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| 25           | Non Patent Literature | 28-<br>WellsFargoOppositionClaimConstructionMemo-c.pdf | 137796                                    | no | 7  |
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| 26           | Non Patent Literature | 29-<br>USAAOppositionClaimConstructionMemo-c.pdf       | 144107                                    | no | 6  |
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| 27           | Non Patent Literature | 30-JointClaimConstructionChart-June-18-2019-c.pdf      | 225693                                    | no | 27 |
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| 28           | Non Patent Literature | 31-InvalidityChart-BuecheVsYoon-c.pdf                  | 525335                                    | no | 94 |
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| 30           | Non Patent Literature | 33-SupplInvalidityChart-c.pdf                               | 540465                                    | no | 16 |
|              |                       |                                                             | 2d0ddccb075f7b22fa8fd09d08a245f4eea218c1  |    |    |
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| 31           | Non Patent Literature | 34-CalmanDeclaration-June-27-2019.pdf                       | 408902                                    | no | 25 |
|              |                       |                                                             | 7c8ffba6924f0e16fcb60eac2dc323145bea597e  |    |    |
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| 32           | Non Patent Literature | 35-CBM2019-00027_PrasadDeclaration_July-8-2019-c.pdf        | 1157092                                   | no | 32 |
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| 33           | Non Patent Literature | 36-CBM2019-00027-PatentOwnerResponse_July-8-2019-c.pdf      | 1799283                                   | no | 91 |
|              |                       |                                                             | eeeca8d3aae97dd8f87abe0db13be5a116f3a475b |    |    |
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| 34           | Non Patent Literature | 37-CBM2019-00028_USAA_PatentOwnerResponse_July-8-2019-c.pdf | 1072632                                   | no | 73 |
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| 35           | Non Patent Literature | 38-CBM2019-00028_DeclarationMatthewCalman_July-8-2019-c.pdf | 602473                                    | no | 28 |
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| 36           | Non Patent Literature | 39-CBM2019-00028_GET_SMART_2006.pdf                         | 143003                                    | no | 6  |
|              |                       |                                                             | 3fbc1c048f436dfaa5003e65c5d71b96b81ad378  |    |    |
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| 37           | Non Patent Literature | 40-<br>CBM2019-00028_PalmTereoManual-c.pdf              | 3853435                                  | no | 96  |
|              |                       |                                                         | d419e76fe92720e700b6d5297bd19fca46a8b9c4 |    |     |
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| 38           | Non Patent Literature | 41A-CBM2019-00028-C720w-UserMasnual-pg1-200-c.pdf       | 14696380                                 | no | 200 |
|              |                       |                                                         | 80c6d65d9943808d1c85102a6809184e0d3eece6 |    |     |
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| 39           | Non Patent Literature | 41B-CBM2019-00028-C720w-UserMasnual-pd201-352-c.pdf     | 13389303                                 | no | 152 |
|              |                       |                                                         | 774abe8a725660f5d6d5e6d2810e4e086ef47207 |    |     |
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| 40           | Non Patent Literature | 42-<br>CBM2019-00028_SmarterThanYourAaveragePhone-c.pdf | 129210                                   | no | 4   |
|              |                       |                                                         | 85e1cfebb78e5982e7f12688d8ed2f7250dc0fa6 |    |     |
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| 41           | Non Patent Literature | 43-CBM2019-00028_64-MillionSmartPhonesShipped2006-c.pdf | 102275                                   | no | 3   |
|              |                       |                                                         | 2cb968ee00a59bce46b34d63dcbdebeab8cc7a   |    |     |
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| 42           | Non Patent Literature | 44-<br>CBM2019-00028_Nokia-9500_Manual-c.pdf            | 14901150                                 | no | 112 |
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| 43           | Non Patent Literature | 45-CBM2019-00028_Robinson-ClientWeekHandsets3GSM-c.pdf  | 97473                                    | no | 2   |
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| 44           | Non Patent Literature | 46-<br>CBM2019-00028_Burney_MacBookProIntelProcessor-c.pdf   | 98949                                     | no | 2   |
|              |                       |                                                              | db6ded95b1f4c3001f44d3d16a0ede3f255a1ae6  |    |     |
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| 45           | Non Patent Literature | 47-<br>CBM2019-00028_MacbookProUserGuide-c.pdf               | 2120587                                   | no | 144 |
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| 46           | Non Patent Literature | 48-<br>CBM2019-00028_WongHPUnveilsNewMobileComputers-c.pdf   | 95651                                     | no | 2   |
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| 47           | Non Patent Literature | 49-<br>CBM2019-00028_CellPhoneShipmentsReachRecord208M-c.pdf | 97456                                     | no | 1   |
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| 48           | Non Patent Literature | 50-<br>CBM2019-00028_LawlerAppleShowsIntel-basedMacs-c.pdf   | 99912                                     | no | 2   |
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| 49           | Non Patent Literature | 51-CBM2019-00028-Aspire_9800UserGuide-c.pdf                  | 6365303                                   | no | 122 |
|              |                       |                                                              | 9963627c9071de6adb8a8ac4a26b258427cdeb634 |    |     |
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| 50           | Non Patent Literature | 52-<br>CBM2019-00028_Dell_xps_m1210_OnwersManual-c.pdf       | 3987133                                   | no | 192 |
|              |                       |                                                              | 65a24e0786870d796fb2c1d3974b82d9fd460a9f  |    |     |
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| 51           | Non Patent Literature | 53-<br>CBM2019-00028_Esteridge_IsY<br>ourPhoneSmartEnough-c.pdf           | 117155                                    | no | 3  |
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| 52           | Non Patent Literature | 54-CBM2019-00028-<br>Motorola_PalmCollaborateOnS<br>martPhone-c.pdf       | 86257                                     | no | 1  |
|              |                       |                                                                           | c17db4dc0e6482aca7fc7ebd24bbc6615b4a34    |    |    |
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| 53           | Non Patent Literature | 55-CBM2019-00028_Nasaw-<br>VirusesPoseThreatSmarCellpho<br>nes-c.pdf      | 118597                                    | no | 2  |
|              |                       |                                                                           | 02608db159d3eae91539ff038c31d669d7b43254  |    |    |
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| 54           | Non Patent Literature | 56-CBM2019-00028_Seitz-<br>MultifunctionTrendShakingUp-<br>c.pdf          | 116762                                    | no | 3  |
|              |                       |                                                                           | 33be1ca72b3b68068ca57c3a53d72f52a0445e38  |    |    |
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| 55           | Non Patent Literature | 57-<br>CBM2019-00028_MicrosoftMo<br>bileDevicesBuysGuide-c.pdf            | 189966                                    | no | 4  |
|              |                       |                                                                           | 2b2629b066e9aa31750dd57c252a48b5473c12ac  |    |    |
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| 56           | Non Patent Literature | 58-<br>CBM2019-00028_MicrosoftSma<br>rtphone2003-c.pdf                    | 204974                                    | no | 2  |
|              |                       |                                                                           | c1e2b56cf6e5d67985fe295ccbbae54e2d2bae56f |    |    |
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| 57           | Non Patent Literature | 59-<br>PlaintiffsNoticeDecisionDenyin<br>gCBMReview-May-15-2019-c.<br>pdf | 351664                                    | no | 36 |
|              |                       |                                                                           | 5283722e3cc091581b9992fc00ab08f1e8e2b9c7  |    |    |
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| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Non Patent Literature                              | 60-CBM2019-00029-DefendantClaimConstructionBriefMay2019-c.pdf | 612951<br>66fdc0876588c13809c8569ca5022ce9bb9635bb  | no | 28 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |                                                               |                                                     |    |    |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                                                               |                                                     |    |    |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Non Patent Literature                              | 61-CBM2019-00029-USAAPatentOwnerPrelimJuly-17-2019-c.pdf      | 1089507<br>f855b5c5ecbf349e871438e59abc8c264e443185 | no | 76 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |                                                               |                                                     |    |    |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                                                               |                                                     |    |    |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Information Disclosure Statement (IDS) Form (SB08) | 14538-668_IDS.pdf                                             | 165278<br>8790c6341a67bf29bdb774a307afe36c58d7968   | no | 5  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |                                                               |                                                     |    |    |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                                                               |                                                     |    |    |
| This is not an USPTO supplied IDS fillable form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |                                                               |                                                     |    |    |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                                                               | 101548407                                           |    |    |
| <p><b>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.</b></p> <p><b>New Applications Under 35 U.S.C. 111</b><br/> 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.</p> <p><b>National Stage of an International Application under 35 U.S.C. 371</b><br/> 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.</p> <p><b>New International Application Filed with the USPTO as a Receiving Office</b><br/> 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.</p> |                                                    |                                                               |                                                     |    |    |

| Electronic Acknowledgement Receipt   |                                  |
|--------------------------------------|----------------------------------|
| EFS ID:                              | 36910695                         |
| Application Number:                  | 16507595                         |
| International Application Number:    |                                  |
| Confirmation Number:                 | 4037                             |
| Title of Invention:                  | DIGITAL CAMERA PROCESSING SYSTEM |
| First Named Inventor/Applicant Name: | Charles Lee Oakes                |
| Customer Number:                     | 16530                            |
| Filer:                               | Scott Wayne Brim/Juan Garibay    |
| Filer Authorized By:                 | Scott Wayne Brim                 |
| Attorney Docket Number:              | US-0152.11(14538-668)            |
| Receipt Date:                        | 19-AUG-2019                      |
| Filing Date:                         | 10-JUL-2019                      |
| Time Stamp:                          | 13:50:39                         |
| Application Type:                    | Utility under 35 USC 111(a)      |

### Payment information:

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| Submitted with Payment | no |
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### File Listing:

| Document Number | Document Description  | File Name                                             | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
|-----------------|-----------------------|-------------------------------------------------------|------------------------------------------|------------------|------------------|
| 1               | Non Patent Literature | 62-CBM2019-00029_CalmanDeclaration-July-17-2019-c.pdf | 627336                                   | no               | 29               |
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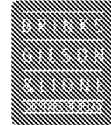
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| 2            | Non Patent Literature | 63-CBM2019-00029-DefendantClaimConstructionBriefMay2019-c.pdf | 607217                                   | no | 28  |
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| 3            | Non Patent Literature | 64-CBM2019-00029-Palenchar_PDAPhoneAddsWi-Fi-VolP-c.pdf       | 106806                                   | no | 2   |
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| 4            | Non Patent Literature | 65-CBM2019-00029-HPUserGuide-2006-c.pdf                       | 1269278                                  | no | 204 |
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| 5            | Non Patent Literature | 66-CBM2019-00029-Dynamism-com_TakeTomorrowsTech-c.pdf         | 115504                                   | no | 2   |
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| 6            | Non Patent Literature | 67-CBM2019-00029-PocketPC_UserGuide-c.pdf                     | 7894951                                  | no | 225 |
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| 7            | Non Patent Literature | 68-IPR2019-00815-Retired-DTSU_X9_37-2003-2003-c.pdf           | 1211302                                  | no | 157 |
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| 8            | Non Patent Literature | 69-IPR2019-01081-DECLARATION-PETER_ALEXANDER.pdf              | 2298487                                  | no | 135 |
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| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Non Patent Literature | 70-<br>USAAOpeningClaimConstructi<br>onBrief-c.pdf            | 387173<br><br>030d79f1223363b1663af6e5bef84680e8cf726f  | no | 32  |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                               |                                                         |    |     |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                               |                                                         |    |     |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Non Patent Literature | 71-<br>PR_JointClaimConstructionPre<br>hearingStatement-c.pdf | 1340346<br><br>624fc7fbac358c8aae5498ce1d67c9c7d75b3c8a | no | 190 |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                               |                                                         |    |     |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                               |                                                         |    |     |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Non Patent Literature | 72-<br>DefendantWellsFargoBankAme<br>ndedAnswer-c.pdf         | 420029<br><br>6ff6153f0580b3bcacf573cd3be2bae294e507bc2 | no | 32  |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                               |                                                         |    |     |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                               |                                                         |    |     |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Non Patent Literature | 73-<br>PlaintiffCounterclaimAnswer-c.<br>pdf                  | 351968<br><br>35760976c8097cb3b74865871d34a68f9a3d1a2c  | no | 36  |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                               |                                                         |    |     |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                               |                                                         |    |     |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                               | 16630397                                                |    |     |
| <p>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.</p> <p><b>New Applications Under 35 U.S.C. 111</b><br/>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.</p> <p><b>National Stage of an International Application under 35 U.S.C. 371</b><br/>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.</p> <p><b>New International Application Filed with the USPTO as a Receiving Office</b><br/>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.</p> |                       |                                                               |                                                         |    |     |

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:  
 Date: August 19, 2019 Name: Scott W. Brim (Reg. No. 51,500) Signature: /Scott W. Brim/



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appln. of: Charles Lee Oakes

Appln. No.: 16/507,595

Filed: July 10, 2019

For: DIGITAL CAMERA PROCESSING SYSTEM

Attorney Docket No.: US-0152.11(14538-668)

Examiner: TBD

Art Unit: 3693

Conf. No.: 4037

**TRANSMITTAL**

Commissioner for Patents  
 PO Box 1450  
 Alexandria, VA 22313-1450

Sir:

**Attached is/are:**

☒ Information Disclosure Statement.

**Fee calculation:**

- ☒ No additional fee is required.
- ☐ Per 37 CFR §1.27, ☐ Applicant is small entity ☐ Applicant is micro entity.
- ☐ An extension fee in an amount of \$\_\_\_\_\_ for a \_\_\_\_\_-month extension of time under 37 CFR § 1.136(a).
- ☐ A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 CFR § 1.1\_\_\_\_\_(\_\_\_\_\_).
- ☐ An additional filing fee has been calculated as shown below:

|                                           |                                  |       |                             |               | Fee       |           | Small Entity Fee |           | Micro Entity Fee |           |
|-------------------------------------------|----------------------------------|-------|-----------------------------|---------------|-----------|-----------|------------------|-----------|------------------|-----------|
|                                           | Claims Remaining After Amendment |       | Highest No. Previously Paid | Present Extra | Rate      | Add'l Fee | Rate             | Add'l Fee | Rate             | Add'l Fee |
| Total                                     |                                  | Minus |                             |               | x \$100 = | \$        | x \$ 50 =        | \$        | x \$25 =         | \$        |
| Independent                               |                                  | Minus |                             |               | x \$460 = | \$        | x \$230 =        | \$        | x \$115 =        | \$        |
| First Presentation of Multiple Dep. Claim |                                  |       |                             |               | + \$820 = | \$        | + \$410 =        | \$        | + \$205 =        | \$        |
|                                           |                                  |       |                             |               | Total     | \$        | Total            | \$        | Total            | \$        |

**Fee payment:**

- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 50-4184.

Respectfully submitted,

August 19, 2019  
 Date

/Scott W. Brim/  
Scott W. Brim (Reg. No. 51,500)

BRINKS GILSON & LIONE  
 NBC Tower – Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL 60611-5599



# UNITED STATES PATENT AND TRADEMARK OFFICE

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

| APPLICATION<br>NUMBER | FILING or<br>371(c) DATE | GRP ART<br>UNIT | FIL FEE REC'D | ATTY. DOCKET NO       | TOT CLAIMS | IND CLAIMS |
|-----------------------|--------------------------|-----------------|---------------|-----------------------|------------|------------|
| 16/507,595            | 07/10/2019               | 3693            | 0.00          | US-0152.11(14538-668) | 24         | 3          |

**CONFIRMATION NO. 4037**

## FILING RECEIPT



0000000109871311

16530  
BGL  
P.O. Box 10395  
Chicago, IL 60611

Date Mailed: 07/24/2019

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

### Inventor(s)

Charles Lee Oakes III, San Antonio, TX;  
Randy Ray Morlen, San Antonio, TX;  
Michael Frank Morris, San Antonio, TX;  
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Frank Kyle Major, San Antonio, TX;  
Jeffrey Neal Pollack, San Antonio, TX;

### Applicant(s)

United Services Automobile Association (USAA), San Antonio, TX;

### Assignment For Published Patent Application

United Services Automobile Association (USAA), San Antonio, TX

**Power of Attorney:** The patent practitioners associated with Customer Number 16530

### Domestic Priority data as claimed by applicant

This application is a CON of 16/165,622 10/19/2018  
which is a CON of 16/025,679 07/02/2018  
which is a CON of 14/225,090 03/25/2014  
and is a CON of 15/663,284 07/28/2017 PAT 10013605  
which is a CON of 14/225,090 03/25/2014  
which is a CON of 11/590,974 10/31/2006 PAT 8708227

page 1 of 4

**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:** Yes

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

**If Required, Foreign Filing License Granted:** 07/23/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/507,595**

**Projected Publication Date:** Request for Non-Publication Acknowledged

**Non-Publication Request:** Yes

**Early Publication Request:** No

**Title**

DIGITAL CAMERA PROCESSING SYSTEM

**Preliminary Class**

705

**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).

## **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.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **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).

## ***SelectUSA***

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/507,595         | 07/10/2019            | Charles Lee Oakes III | US-0152.11(14538-668)  |

**CONFIRMATION NO. 4037**

16530  
BGL  
P.O. Box 10395  
Chicago, IL 60611

**FORMALITIES LETTER**



Date Mailed: 07/24/2019

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

**FILED UNDER 37 CFR 1.53(b)**

***Filing Date Granted***

**Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Additional claim fees of \$ **400** as an undiscouned entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.  
The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

**SUMMARY OF FEES DUE:**

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- \$ **300** basic filing fee.
- \$ **160** surcharge.
- \$ **660** search fee.
- \$ **760** examination fee.
- \$ **400** for **4** total claims over 20.

- \$( 0) previous unapplied payment amount.
- **\$ 2280** TOTAL FEE BALANCE DUE.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice".  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

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

/dmnguyen/

---

| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                                  |          |                                    |               | Application or Docket Number<br>16/507,595 |                    |                         |                    |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|------------------------------------|---------------|--------------------------------------------|--------------------|-------------------------|--------------------|--------------------|
| <b>APPLICATION AS FILED - PART I</b>                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               | (Column 2)                       |          | SMALL ENTITY                       |               | OTHER THAN SMALL ENTITY                    |                    |                         |                    |                    |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                                           | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                     | RATE(\$) | FEE(\$)                            |               | RATE(\$)                                   | FEE(\$)            |                         |                    |                    |
| BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                                    | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 300                |                         |                    |                    |
| SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 660                |                         |                    |                    |
| EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                                                           | N/A                              | N/A      |                                    |               | N/A                                        | 760                |                         |                    |                    |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                              | 24                                                                                                                                                                                                                            | minus 20 =<br>*                  | 4        |                                    |               | x 100 =                                    | 400                |                         |                    |                    |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                        | 3                                                                                                                                                                                                                             | minus 3 =<br>*                   |          |                                    |               | x 460 =                                    | 0.00               |                         |                    |                    |
| APPLICATION SIZE FEE<br>(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                              |               | TOTAL                                      | 2120               |                         |                    |                    |
| <b>APPLICATION AS AMENDED - PART II</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               | (Column 2)                       |          | (Column 3)                         |               | SMALL ENTITY                               |                    | OTHER THAN SMALL ENTITY |                    |                    |
| AMENDMENT A                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                | Minus    | ***                                | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                               |                                  |          |                                    |               | TOTAL<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |          | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)                                   | ADDITIONAL FEE(\$) |                         | RATE(\$)           | ADDITIONAL FEE(\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                | Minus    | **                                 | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                | Minus    | ***                                | =             | x                                          | =                  |                         | x                  | =                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                               | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                               |                                  |          |                                    |               | TOTAL<br>ADD'L FEE                         |                    |                         | TOTAL<br>ADD'L FEE |                    |
| <p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.</p> |                                                                                                                                                                                                                               |                                  |          |                                    |               |                                            |                    |                         |                    |                    |

**CERTIFICATE OF ELECTRONIC FILING**

I hereby certify that this correspondence is being filed electronically with the U.S. Patent and Trademark Office on the below date:

Date: July 10, 2019 Name: Patricia Chiovari Signature: /Patricia Chiovari/

Our Case No. US-0152.11 | 14538-668

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                                |   |                                  |
|--------------------------------|---|----------------------------------|
| First Named Inventor:          | ) |                                  |
|                                | ) |                                  |
| Charles Lee Oakes              | ) |                                  |
|                                | ) | Examiner: To be assigned         |
| Serial No.: To be assigned     | ) |                                  |
|                                | ) | Group Art Unit: To be assigned   |
| Filing Date: Herewith          | ) |                                  |
|                                | ) | Confirmation No.: To be assigned |
| For: DIGITAL CAMERA PROCESSING | ) |                                  |
| SYSTEM                         | ) |                                  |

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Prior to examining this application, please enter the following amendment  
and consider the following remarks:

## ABSTRACT

A digital camera processing system with software to manage taking photos with a digital camera. Camera software controls the digital camera. A downloaded software component controls the digital camera software and causes a handheld mobile device to perform operations. The operations may include instructing a user to have the digital camera take photos of a check; displaying an instruction on a display of the handheld mobile device to assist the user in having the digital camera take the photos; or assisting the user as to an orientation for taking the photos with the digital camera. The digital camera processing system may generate a log file including a bi-tonal image formatted as a TIFF image.

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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                        |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  | Application Number     |                        |
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |
| <p>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.</p> <p>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.</p> |                                  |                        |                        |

**Secrecy Order 37 CFR 5.2:**

|                          |                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | 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               |        |  |
|                                    | Charles     | Lee                                                                                                                                   | Oakes       | III                  |        |  |
| Residence Information (Select One) |             | <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                      |        |  |
| City                               | San Antonio | State/Province                                                                                                                        | TX          | Country of Residence | US     |  |
| Mailing Address of Inventor:       |             |                                                                                                                                       |             |                      |        |  |
| Address 1                          |             | 119 Roadrunner Circle                                                                                                                 |             |                      |        |  |
| Address 2                          |             |                                                                                                                                       |             |                      |        |  |
| City                               | San Antonio | State/Province                                                                                                                        | TX          |                      |        |  |
| Postal Code                        | 78006       | Country i                                                                                                                             | US          |                      |        |  |
| Inventor 2                         |             |                                                                                                                                       |             |                      | Remove |  |
| Legal Name                         |             |                                                                                                                                       |             |                      |        |  |
| Prefix                             | Given Name  | Middle Name                                                                                                                           | Family Name | Suffix               |        |  |
|                                    | Randy       | Ray                                                                                                                                   | Morlen      |                      |        |  |
| Residence Information (Select One) |             | <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                      |        |  |
| City                               | San Antonio | State/Province                                                                                                                        | TX          | Country of Residence | US     |  |
| Mailing Address of Inventor:       |             |                                                                                                                                       |             |                      |        |  |
| Address 1                          |             | 1939 Creek Hollow                                                                                                                     |             |                      |        |  |
| Address 2                          |             |                                                                                                                                       |             |                      |        |  |
| City                               | San Antonio | State/Province                                                                                                                        | TX          |                      |        |  |
| Postal Code                        | 78259       | Country i                                                                                                                             | US          |                      |        |  |
| Inventor 3                         |             |                                                                                                                                       |             |                      | Remove |  |
| Legal Name                         |             |                                                                                                                                       |             |                      |        |  |
| Prefix                             | Given Name  | Middle Name                                                                                                                           | Family Name | Suffix               |        |  |
|                                    | Michael     | Frank                                                                                                                                 | Morris      |                      |        |  |
| Residence Information (Select One) |             | <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                      |        |  |

|                                           |  |                                  |  |                        |  |
|-------------------------------------------|--|----------------------------------|--|------------------------|--|
| <b>Application Data Sheet 37 CFR 1.76</b> |  | Attorney Docket Number           |  | US-0152.11 (14538-668) |  |
|                                           |  | Application Number               |  |                        |  |
| Title of Invention                        |  | DIGITAL CAMERA PROCESSING SYSTEM |  |                        |  |

|      |             |                |    |                      |    |
|------|-------------|----------------|----|----------------------|----|
| City | San Antonio | State/Province | TX | Country of Residence | US |
|------|-------------|----------------|----|----------------------|----|

  
**Mailing Address of Inventor:**

|                                                                                                                                                                          |                      |                |             |                      |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|----------------------|------------------------|
| Address 1                                                                                                                                                                | 4911 Brandeis Street |                |             |                      |                        |
| Address 2                                                                                                                                                                |                      |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio          | State/Province | TX          |                      |                        |
| Postal Code                                                                                                                                                              | 78249                | Country i      | US          |                      |                        |
| Inventor 4                                                                                                                                                               |                      |                |             |                      | <a href="#">Remove</a> |
| Legal Name                                                                                                                                                               |                      |                |             |                      |                        |
| Prefix                                                                                                                                                                   | Given Name           | Middle Name    | Family Name | Suffix               |                        |
|                                                                                                                                                                          | Reynaldo             |                | Medina      | III                  |                        |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |                      |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio          | State/Province | TX          | Country of Residence | US                     |

  
**Mailing Address of Inventor:**

|                                                                                                                                                                          |                     |                |             |                      |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|-------------|----------------------|------------------------|
| Address 1                                                                                                                                                                | 9218 Dublin Heights |                |             |                      |                        |
| Address 2                                                                                                                                                                |                     |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio         | State/Province | TX          |                      |                        |
| Postal Code                                                                                                                                                              | 78254               | Country i      | US          |                      |                        |
| Inventor 5                                                                                                                                                               |                     |                |             |                      | <a href="#">Remove</a> |
| Legal Name                                                                                                                                                               |                     |                |             |                      |                        |
| Prefix                                                                                                                                                                   | Given Name          | Middle Name    | Family Name | Suffix               |                        |
|                                                                                                                                                                          | Greg                | Alan           | Harpel      |                      |                        |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |                     |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio         | State/Province | TX          | Country of Residence | US                     |

  
**Mailing Address of Inventor:**

|                                                                                                                                                                          |                  |                |             |                      |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|-------------|----------------------|------------------------|
| Address 1                                                                                                                                                                | 13634 Shady Walk |                |             |                      |                        |
| Address 2                                                                                                                                                                |                  |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio      | State/Province | TX          |                      |                        |
| Postal Code                                                                                                                                                              | 78231            | Country i      | US          |                      |                        |
| Inventor 6                                                                                                                                                               |                  |                |             |                      | <a href="#">Remove</a> |
| Legal Name                                                                                                                                                               |                  |                |             |                      |                        |
| Prefix                                                                                                                                                                   | Given Name       | Middle Name    | Family Name | Suffix               |                        |
|                                                                                                                                                                          | Gabriel          | Glenn          | Gavia       |                      |                        |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |                  |                |             |                      |                        |
| City                                                                                                                                                                     | San Antonio      | State/Province | TX          | Country of Residence | US                     |

|                                                                                                                                                                          |             |                                  |                |                        |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|----------------|------------------------|-------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                                                |             | Attorney Docket Number           |                | US-0152.11 (14538-668) |                         |
|                                                                                                                                                                          |             | Application Number               |                |                        |                         |
| Title of Invention                                                                                                                                                       |             | DIGITAL CAMERA PROCESSING SYSTEM |                |                        |                         |
| <b>Mailing Address of Inventor:</b>                                                                                                                                      |             |                                  |                |                        |                         |
| Address 1                                                                                                                                                                |             | 8810 Toulouse                    |                |                        |                         |
| Address 2                                                                                                                                                                |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     |                         |
| Postal Code                                                                                                                                                              | 78240       |                                  | Country i      | US                     |                         |
| Inventor 7                                                                                                                                                               |             |                                  |                |                        | <a href="#">Remove</a>  |
| Legal Name                                                                                                                                                               |             |                                  |                |                        |                         |
| Prefix                                                                                                                                                                   | Given Name  | Middle Name                      | Family Name    | Suffix                 |                         |
|                                                                                                                                                                          | Bharat      |                                  | Prasad         |                        |                         |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     | Country of Residence US |
| <b>Mailing Address of Inventor:</b>                                                                                                                                      |             |                                  |                |                        |                         |
| Address 1                                                                                                                                                                |             | 114 Sable Heights                |                |                        |                         |
| Address 2                                                                                                                                                                |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     |                         |
| Postal Code                                                                                                                                                              | 78258       |                                  | Country i      | US                     |                         |
| Inventor 8                                                                                                                                                               |             |                                  |                |                        | <a href="#">Remove</a>  |
| Legal Name                                                                                                                                                               |             |                                  |                |                        |                         |
| Prefix                                                                                                                                                                   | Given Name  | Middle Name                      | Family Name    | Suffix                 |                         |
|                                                                                                                                                                          | Frank       | Kyle                             | Major          |                        |                         |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     | Country of Residence US |
| <b>Mailing Address of Inventor:</b>                                                                                                                                      |             |                                  |                |                        |                         |
| Address 1                                                                                                                                                                |             | 25135 Callaway                   |                |                        |                         |
| Address 2                                                                                                                                                                |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     |                         |
| Postal Code                                                                                                                                                              | 78260       |                                  | Country i      | US                     |                         |
| Inventor 9                                                                                                                                                               |             |                                  |                |                        | <a href="#">Remove</a>  |
| Legal Name                                                                                                                                                               |             |                                  |                |                        |                         |
| Prefix                                                                                                                                                                   | Given Name  | Middle Name                      | Family Name    | Suffix                 |                         |
|                                                                                                                                                                          | Jeffrey     | Neal                             | Pollack        |                        |                         |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |             |                                  |                |                        |                         |
| City                                                                                                                                                                     | San Antonio |                                  | State/Province | TX                     | Country of Residence US |

|                                           |                                  |                        |                        |
|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

**Mailing Address of Inventor:**

|                                                                                                                                             |                  |                |    |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|----|
| Address 1                                                                                                                                   | 12503 Bear Trail |                |    |
| Address 2                                                                                                                                   |                  |                |    |
| City                                                                                                                                        | San Antonio      | State/Province | TX |
| Postal Code                                                                                                                                 | 78249            | Country i      | US |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button. |                  |                |    |

**Correspondence Information:**

|                                                                                                                                       |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Enter either Customer Number or complete the Correspondence Information section below.<br>For further information see 37 CFR 1.33(a). |                                                                                 |
| <input type="checkbox"/> An Address is being provided for the correspondence information of this application.                         |                                                                                 |
| Customer Number                                                                                                                       | 16530                                                                           |
| Email Address                                                                                                                         | officeactions@brinksgilson.com <span>Add Email</span> <span>Remove Email</span> |

**Application Information:**

|                                         |                                  |                                           |                          |
|-----------------------------------------|----------------------------------|-------------------------------------------|--------------------------|
| Title of the Invention                  | DIGITAL CAMERA PROCESSING SYSTEM |                                           |                          |
| Attorney Docket Number                  | US-0152.11 (14538-668)           | Small Entity Status Claimed               | <input type="checkbox"/> |
| Application Type                        | Nonprovisional                   |                                           |                          |
| Subject Matter                          | Utility                          |                                           |                          |
| Total Number of Drawing Sheets (if any) | 6                                | Suggested Figure for Publication (if any) |                          |

**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:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)                                                                                                                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/> <b>Request Not to Publish.</b> 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 <b>has not and will not</b> be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing. |

|                                           |                                  |                        |                        |
|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

## Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

|                    |                                                  |                                              |                                                         |
|--------------------|--------------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| Please Select One: | <input checked="" type="radio"/> Customer Number | <input type="radio"/> US Patent Practitioner | <input type="radio"/> Limited Recognition (37 CFR 11.9) |
| Customer Number    | 16530                                            |                                              |                                                         |

## Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

|                          |                 |                          |                                    |               |                         |
|--------------------------|-----------------|--------------------------|------------------------------------|---------------|-------------------------|
| Prior Application Status | Pending         | <a href="#">Remove</a>   |                                    |               |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |               |                         |
|                          | Continuation of | 16165622                 | 2018-10-19                         |               |                         |
| Prior Application Status |                 | <a href="#">Remove</a>   |                                    |               |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |               |                         |
| 16165622                 | Continuation of | 16025679                 | 2018-07-02                         |               |                         |
| Prior Application Status | Pending         | <a href="#">Remove</a>   |                                    |               |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |               |                         |
| 16025679                 | Continuation of | 14225090                 | 2014-03-25                         |               |                         |
| Prior Application Status | Patented        | <a href="#">Remove</a>   |                                    |               |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD)           | Patent Number | Issue Date (YYYY-MM-DD) |
| 16025679                 | Continuation of | 15663284                 | 2017-07-28                         | 10013605      | 2018-07-03              |
| Prior Application Status | Pending         | <a href="#">Remove</a>   |                                    |               |                         |
| Application Number       | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |               |                         |
| 15663284                 | Continuation of | 14225090                 | 2014-03-25                         |               |                         |

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|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|--------------------------|---------------|-------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                             |                                  | Attorney Docket Number   | US-0152.11 (14538-668)   |               |                         |
|                                                                                                                       |                                  | Application Number       |                          |               |                         |
| Title of Invention                                                                                                    | DIGITAL CAMERA PROCESSING SYSTEM |                          |                          |               |                         |
| Prior Application Status                                                                                              |                                  | Patented                 |                          | Remove        |                         |
| Application Number                                                                                                    | Continuity Type                  | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 14225090                                                                                                              | Continuation of                  | 11590974                 | 2006-10-31               | 8708227       | 2014-04-29              |
| Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button. |                                  |                          |                          |               |                         |

### Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)<sup>i</sup> the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

|                                                                                                        |                      |                          |                                          |
|--------------------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------------------------------|
|                                                                                                        |                      | Remove                   |                                          |
| Application Number                                                                                     | Country <sup>i</sup> | Filing Date (YYYY-MM-DD) | Access Code <sup>i</sup> (if applicable) |
|                                                                                                        |                      |                          |                                          |
| Additional Foreign Priority Data may be generated within this form by selecting the <b>Add</b> button. |                      |                          |                                          |

### 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.

|                                           |                                  |                        |                        |
|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

## Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

**NOTE:** This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

### 1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

**A. Priority Document Exchange (PDX)** - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

**B. Search Results from U.S. Application to EPO** - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

### 2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

**NOTE:** Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

## Applicant Information:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                        |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|-------|
| Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                        |       |
| <b>Applicant 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                        |       |
| <p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p> |                                               |                                                                        |       |
| <input type="button" value="Clear"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                                                                        |       |
| <input checked="" type="radio"/> Assignee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | <input type="radio"/> Legal Representative under 35 U.S.C. 117         |       |
| <input type="radio"/> Person to whom the inventor is obligated to assign.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | <input type="radio"/> 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: <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                                                        |       |
| If the Applicant is an Organization check here. <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                        |       |
| Organization Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | United Services Automobile Association (USAA) |                                                                        |       |
| <b>Mailing Address Information For Applicant:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                        |       |
| Address 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9800 Fredericksburg Road                      |                                                                        |       |
| Address 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                                                                        |       |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | San Antonio                                   | State/Province                                                         | TX    |
| Country                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US                                            | Postal Code                                                            | 78288 |
| Phone Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               | Fax Number                                                             |       |
| Email Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                        |       |
| Additional Applicant Data may be generated within this form by selecting the Add button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                                                        |       |

## Assignee Information including Non-Applicant Assignee Information:

|                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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.

|                                           |                                  |                        |                        |
|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

**Assignee 1**

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name

United Services Automobile Association (USAA)

**Mailing Address Information For Assignee including Non-Applicant Assignee:**

Address 1

9800 Fredericksburg Road

Address 2

City

San Antonio

State/Province

TX

Country i

US

Postal Code

78288

Phone Number

Fax Number

Email Address

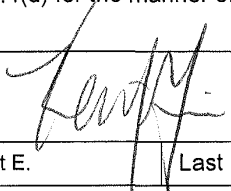
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

**Signature:**

**NOTE:** This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

|                                                                                     |                                                                                     |           |                   |                     |       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------|---------------------|-------|
| Signature                                                                           |  |           | Date (YYYY-MM-DD) | 2019-07-10          |       |
| First Name                                                                          | Kent E.                                                                             | Last Name | Genin             | Registration Number | 37834 |
| Additional Signature may be generated within this form by selecting the Add button. |                                                                                     |           |                   |                     |       |

|                                           |                                  |                        |                        |
|-------------------------------------------|----------------------------------|------------------------|------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                                  | Attorney Docket Number | US-0152.11 (14538-668) |
|                                           |                                  | Application Number     |                        |
| Title of Invention                        | DIGITAL CAMERA PROCESSING SYSTEM |                        |                        |

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

**What is Claimed:**

1. A system for facilitating deposit of a check, said system comprising:
  - a subsystem for receiving from a customer-controlled general purpose computer an identification of an account for deposit of a check, and an amount of said check;
  - a subsystem for receiving from said customer-controlled general purpose computer an image of a front side of said check;
  - a subsystem for analyzing said image of a front side of said check to determine if it meets at least one criterion;
  - a subsystem for determining if there is an error in said deposit of said check;
  - a subsystem for initiating said deposit of said check into said account.
2. The system for facilitating deposit of a check of claim 1, further comprising a subsystem for authenticating an identity of a customer that is operating said customer-controlled general purpose computer.
3. The system for facilitating deposit of a check of claim 1, wherein said subsystem for determining if there is an error in said deposit of said check comprises a subsystem for validating a routing number associated with said check.
4. The system for facilitating deposit of a check of claim 1, wherein said subsystem for determining if there is an error in said deposit of said check comprises a subsystem for determining if said check was previously deposited.
5. The system for facilitating deposit of a check of claim 1, wherein said subsystem for receiving from said customer-controlled general purpose computer an image of a front side of said check is further configured to receive from said customer-controlled general purpose computer an image of a back side of said check.
6. The system for facilitating deposit of a check of claim 5, wherein said subsystem for determining if there is an error in said deposit of said check comprises a subsystem for determining if a signature appears on said back side of said check.

7. The system for facilitating deposit of a check of claim 1, wherein said subsystem for determining if there is an error in said deposit of said check comprises a subsystem for comparing said amount of said check to an amount determined by performing Optical Character Recognition (OCR) on said image of said front side of said check.
8. The system for facilitating deposit of a check of claim 1, further comprising a subsystem for performing Optical Character Recognition (OCR) on said image of said front side of said check.
9. A method for facilitating deposit of a check, said method comprising:
  - receiving from a customer-controlled general purpose computer an identification of an account for deposit of a check, and an amount of said check;
  - receiving from said customer-controlled general purpose computer an image of a front side of said check;
  - analyzing said image of a front side of said check to determine if it meets at least one criterion;
  - determining if there is an error in said deposit of said check;
  - initiating said deposit of said check into said account.
10. The method for facilitating deposit of a check of claim 9, further comprising authenticating an identity of a customer that is operating said customer-controlled general purpose computer.
11. The method for facilitating deposit of a check of claim 9, wherein said determining if there is an error in said deposit of said check comprises validating a routing number associated with said check.
12. The method for facilitating deposit of a check of claim 9, wherein said determining if there is an error in said deposit of said check comprises determining if said check was previously deposited.
13. The method for facilitating deposit of a check of claim 9, further comprising receive from said customer-controlled general purpose computer an image of a back side of said check.
14. The method for facilitating deposit of a check of claim 13, wherein said determining if there is an error in said deposit of said check comprises determining if a signature appears on said back side of said check.

15. The method for facilitating deposit of a check of claim 9, wherein said determining if there is an error in said deposit of said check comprises comparing said amount of said check to an amount determined by performing Optical Character Recognition (OCR) on said image of said front side of said check.

16. The method for facilitating deposit of a check of claim 9, further comprising performing Optical Character Recognition (OCR) on said image of said front side of said check.

17. A computer readable medium bearing instructions for facilitating deposit of a check, said instructions comprising:

- instructions for receiving from a customer-controlled general purpose computer an identification of an account for deposit of a check, and an amount of said check;

- instructions for receiving from said customer-controlled general purpose computer an image of a front side of said check;

- instructions for analyzing said image of a front side of said check to determine if it meets at least one criterion;

- instructions for determining if there is an error in said deposit of said check;

- instructions for initiating said deposit of said check into said account.

18. The computer readable medium for facilitating deposit of a check of claim 17, further comprising instructions for authenticating an identity of a customer that is operating said customer-controlled general purpose computer.

19. The computer readable medium for facilitating deposit of a check of claim 17, wherein said instructions for determining if there is an error in said deposit of said check comprise instructions for validating a routing number associated with said check.

20. The computer readable medium for facilitating deposit of a check of claim 17, wherein said instructions for determining if there is an error in said deposit of said check comprise instructions for determining if said check was previously deposited.

21. The computer readable medium for facilitating deposit of a check of claim 17, wherein said instructions for receiving from said customer-controlled general purpose computer an image of a front side of said check are further configured to receive from said customer-controlled general purpose computer an image of a back side of said check.

22. The computer readable medium for facilitating deposit of a check of claim 21, wherein said instructions for determining if there is an error in said deposit of said check comprise instructions for determining if a signature appears on said back side of said check.

23. The computer readable medium for facilitating deposit of a check of claim 17, wherein said instructions for determining if there is an error in said deposit of said check comprise instructions for comparing said amount of said check to an amount determined by performing Optical Character Recognition (OCR) on said image of said front side of said check.

24. The computer readable medium for facilitating deposit of a check of claim 17, further comprising instructions for performing Optical Character Recognition (OCR) on said image of said front side of said check.

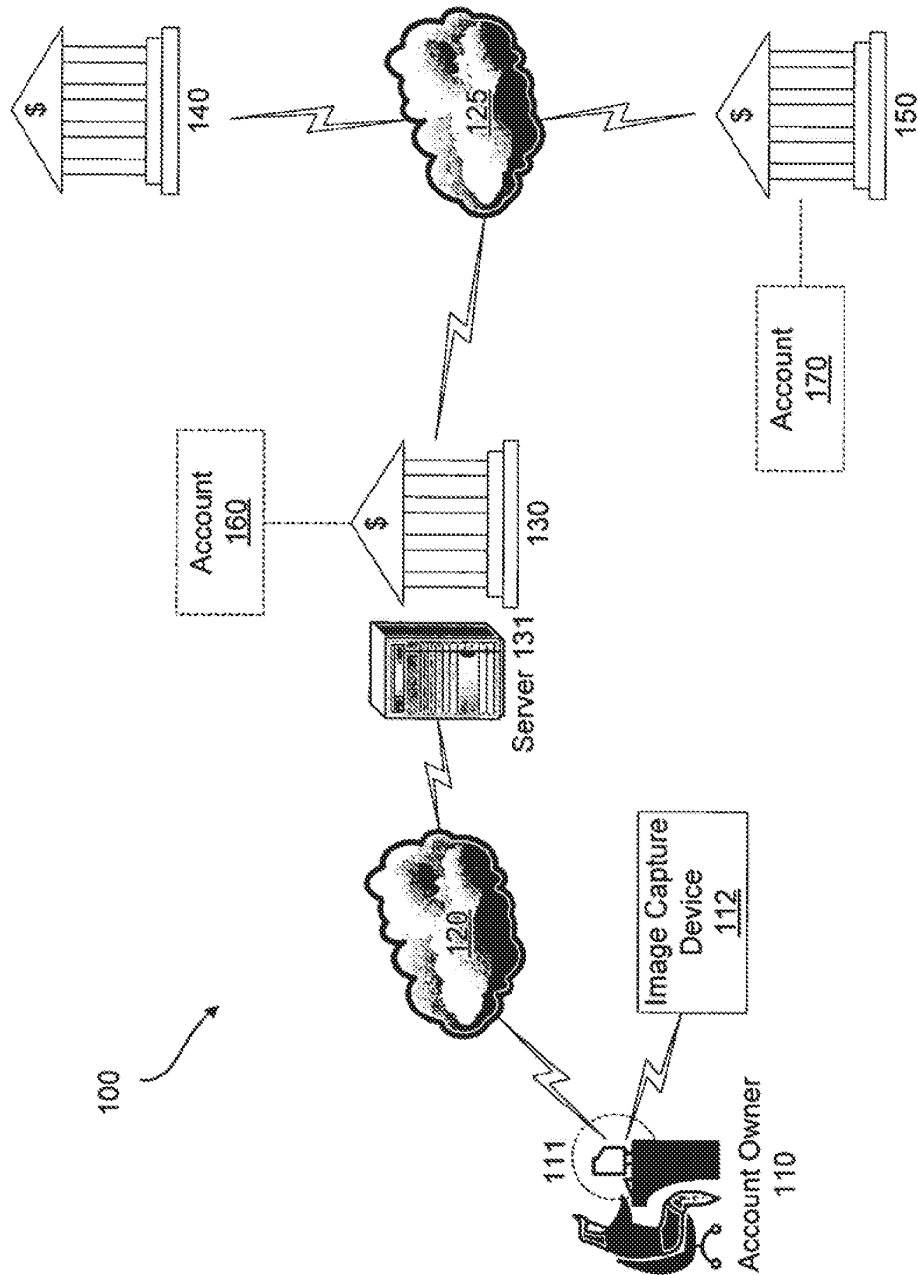


**FIGURE 1**

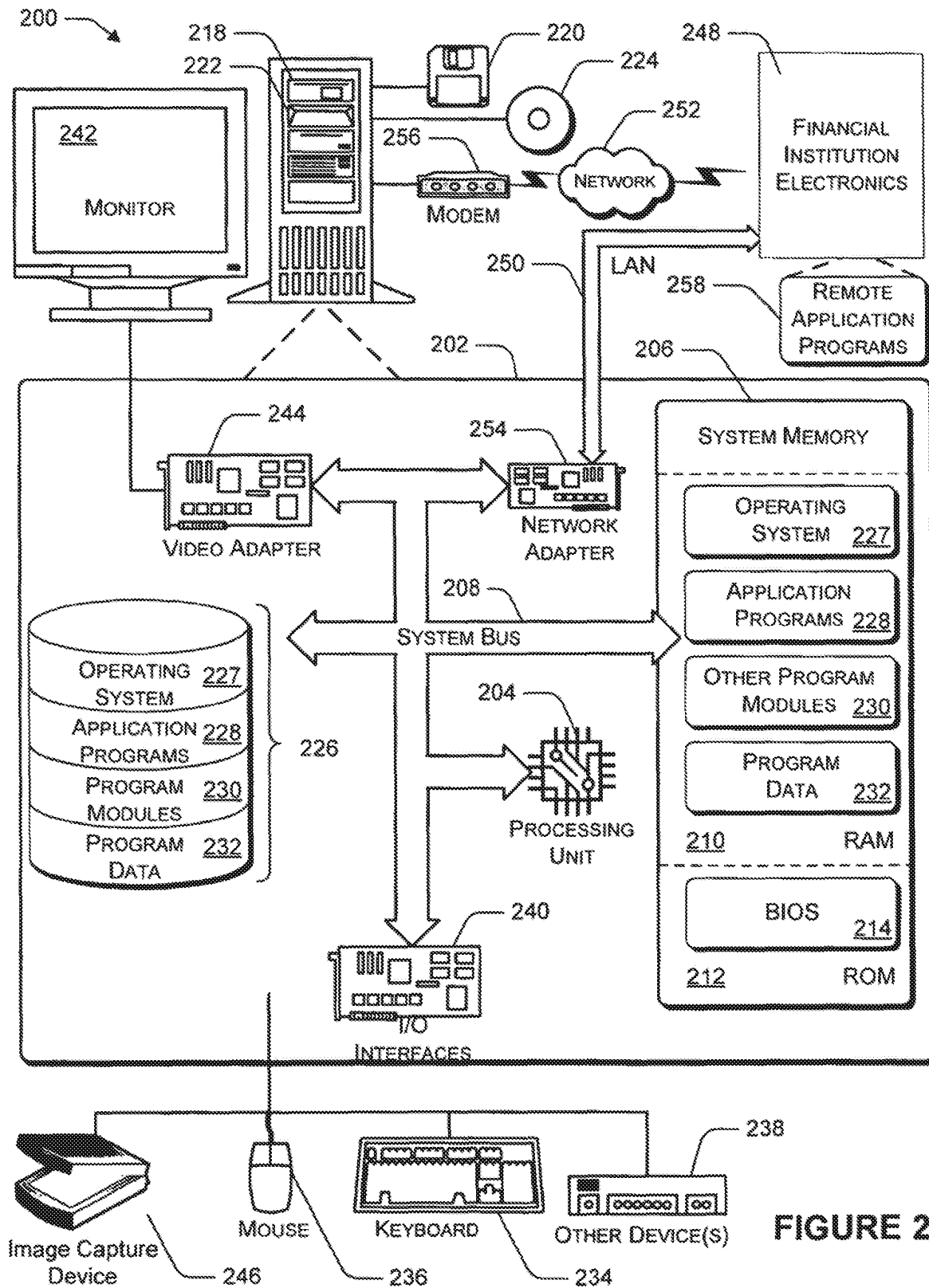


**FIGURE 2**

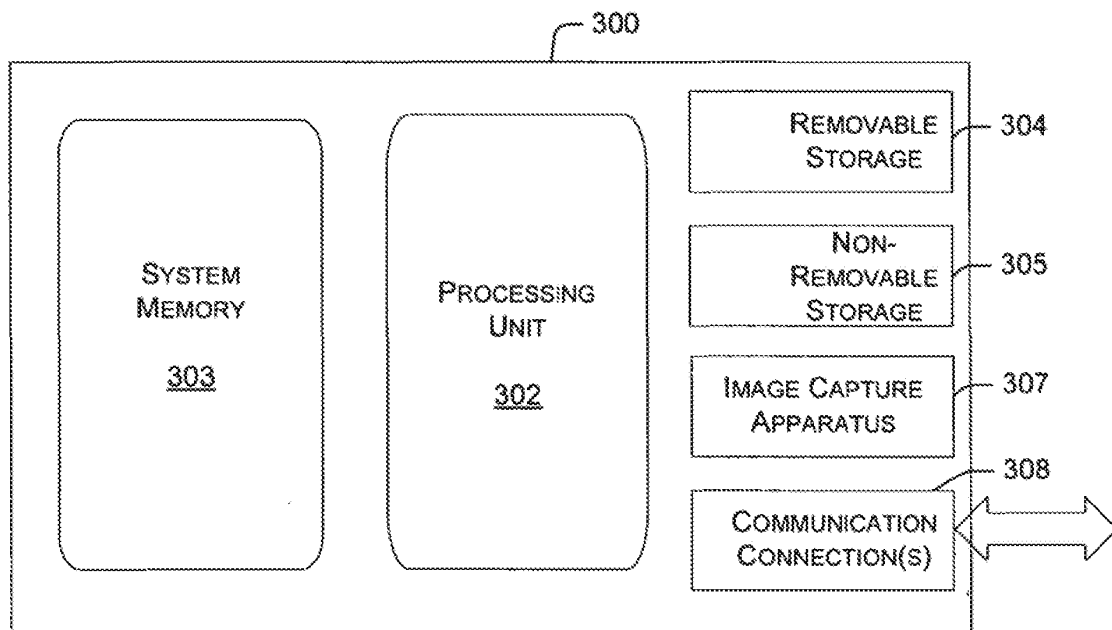


**FIGURE 3**

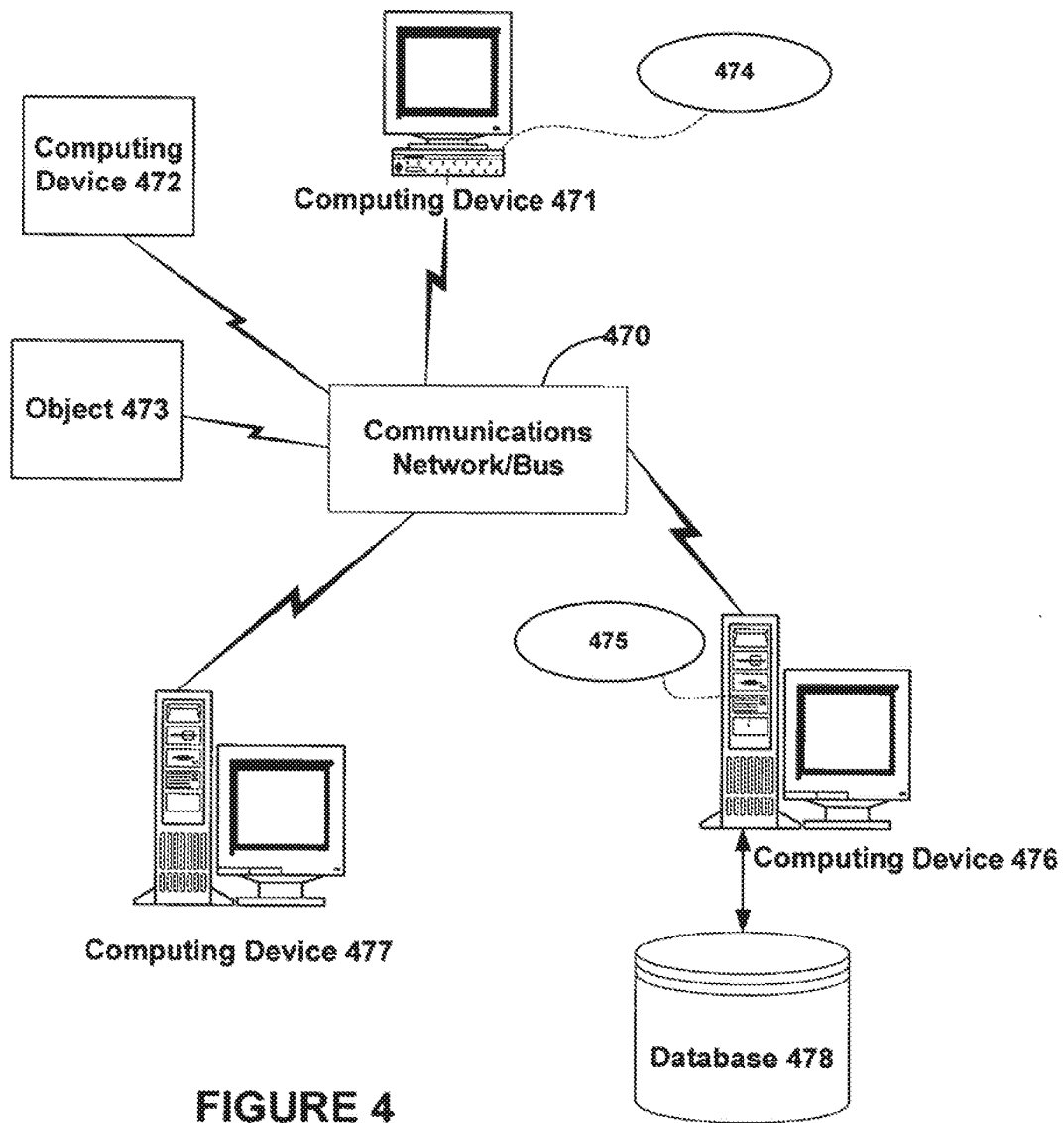


**FIGURE 4**

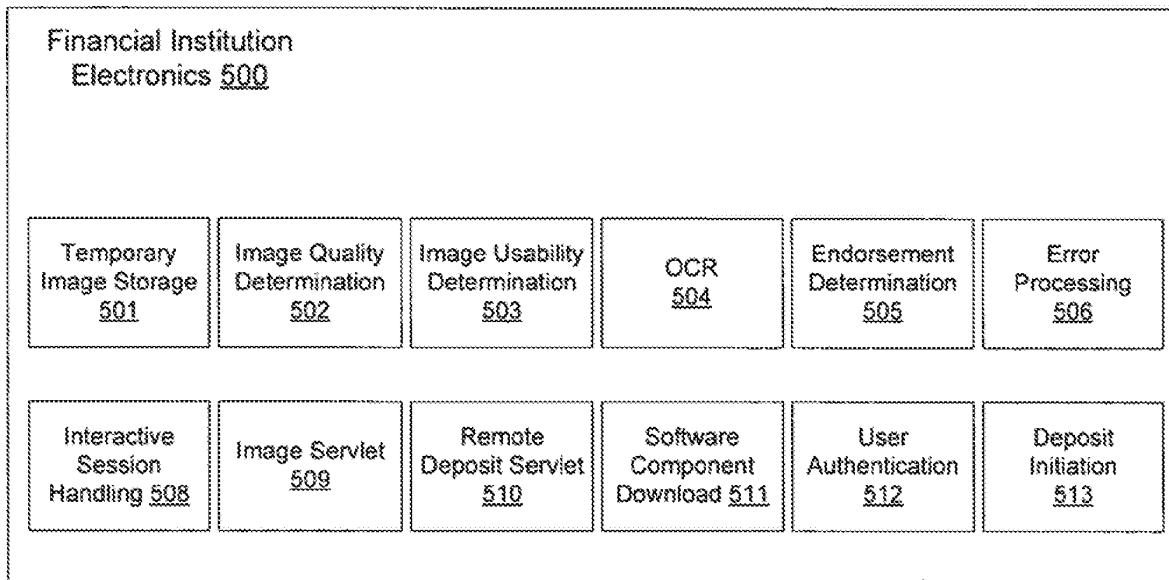
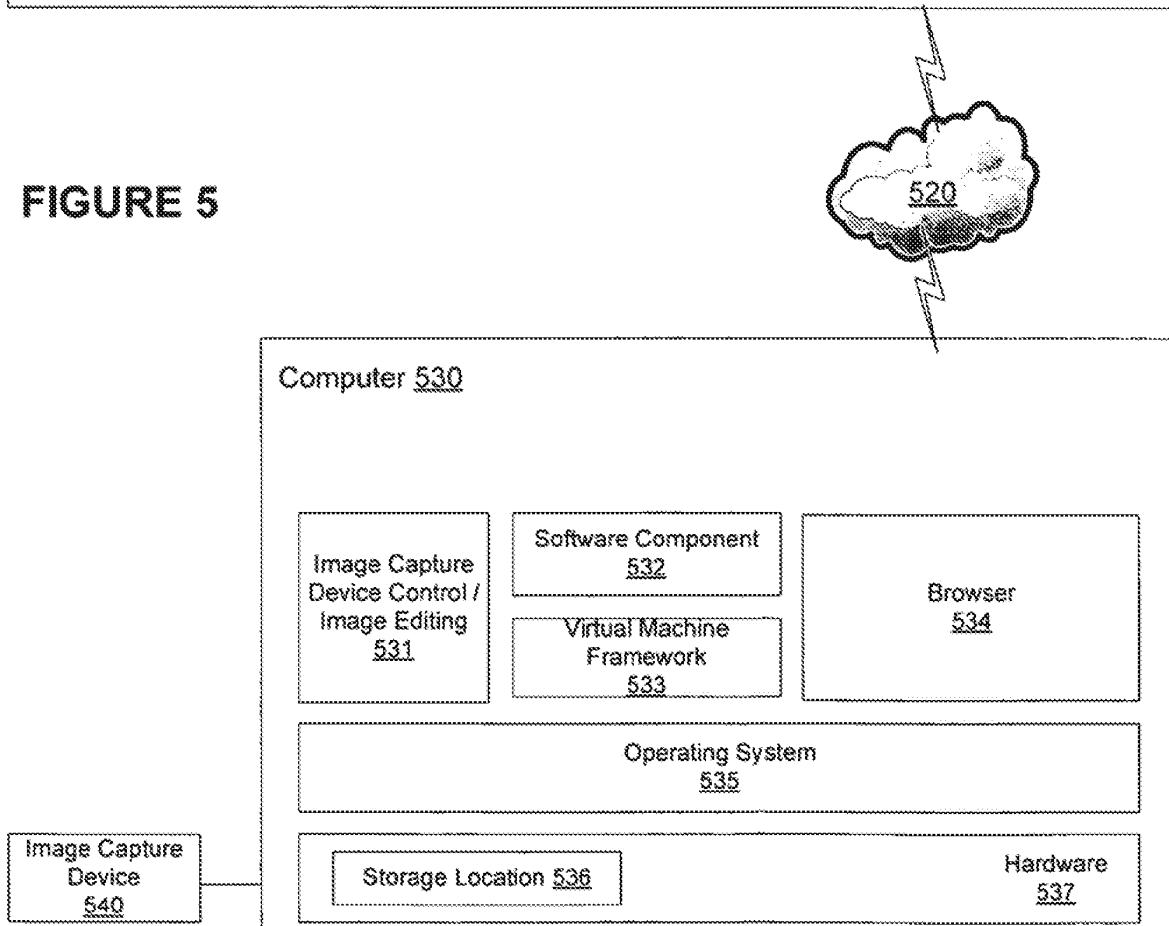


FIGURE 5



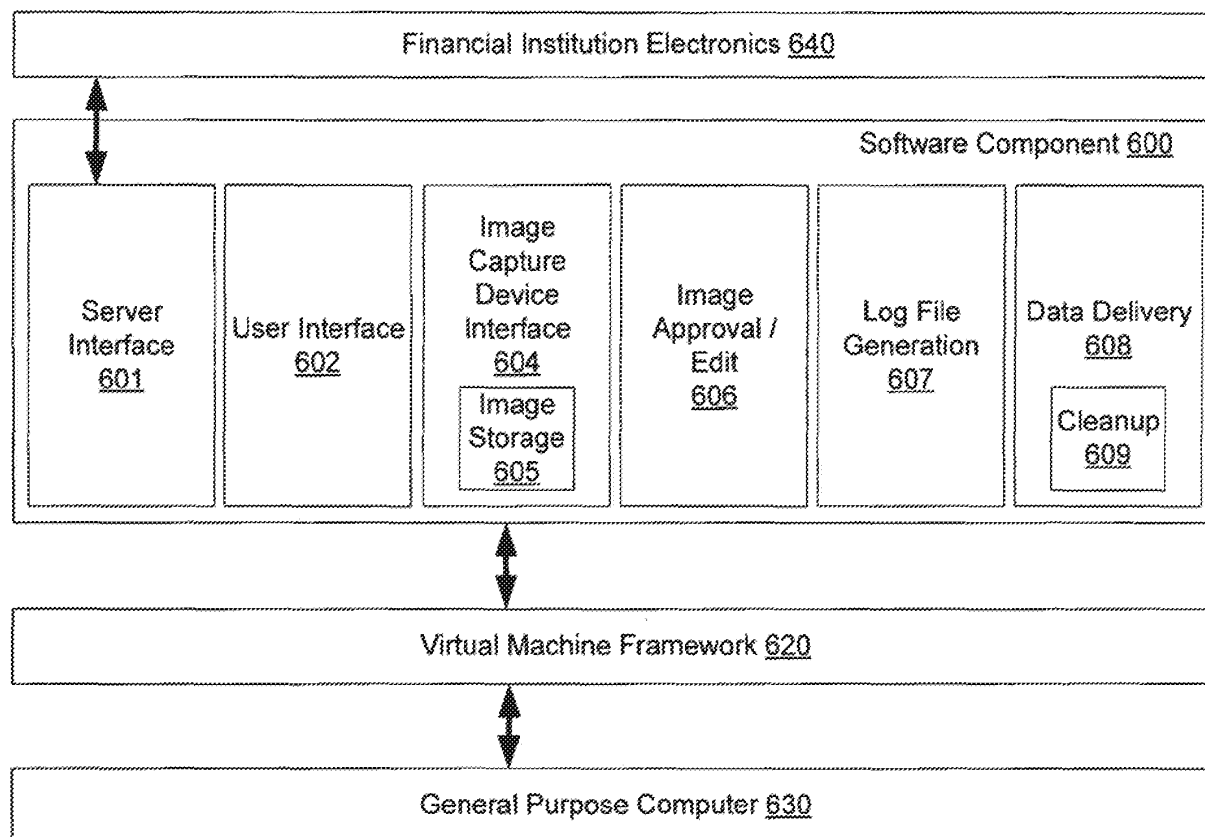


**FIGURE 6**

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:

Date: July 10, 2019

Name: Patricia Chiovari

Signature: /Patricia Chiovari/



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

|                      |                        |
|----------------------|------------------------|
| Application Number   | To be assigned         |
| Filing Date          | Herewith               |
| First Named Inventor | Charles Lee Oakes      |
| Art Unit             | To be assigned         |
| Confirmation Number  | To be assigned         |
| Examiner Name        | To be Assigned         |
| Attorney Docket No.  | US-0152.11 (14538-668) |

In accordance with the duty of disclosure, Applicant(s) hereby cites the following references:

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| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

**Information Disclosure Statement**

Application No. To be assigned

Attorney Docket No. US-0152.11 (14538-668)

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|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

**Information Disclosure Statement**

Application No. To be assigned

Attorney Docket No. US-0152.11 (14538-668)

| EXAMINER<br>INITIAL |      | DOCUMENT NUMBER<br>Number-Kind Code (if known) | DATE       | NAME                 |
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|                    | A1143                                                                                                                                                                                                                                  | Application as filed on January 7, 2013 for U.S. Appln 13/735,678 (30 pgs).                                                                                                                                                                                                                                                                     |                 |
|                    | A1144                                                                                                                                                                                                                                  | Application as filed on July 13, 2006 for U.S. Appln No. 11/487,537 (23 pgs).                                                                                                                                                                                                                                                                   |                 |
|                    | A1145                                                                                                                                                                                                                                  | Application as filed on July 27, 2009 for U.S. Appln No. 12/509,613 (48 pgs).                                                                                                                                                                                                                                                                   |                 |
|                    | A1146                                                                                                                                                                                                                                  | Application as filed on July 27, 2009 for U.S. Appln No. 12/509,680 (41 pgs).                                                                                                                                                                                                                                                                   |                 |
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|                    | A1148                                                                                                                                                                                                                                  | Application as filed on June 8, 2011 for U.S. Appln No. 13/155,976 (352 pgs).                                                                                                                                                                                                                                                                   |                 |
| Examiner Signature |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                 | Date Considered |

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| Examiner Signature |  | Date Considered |  |
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|                       | A1200                                                                                                                                                                                                                                  | Claims as filed January 31, 2018 for U.S. Appln No. 15/884,990 (6 pgs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |
|                       | A1201                                                                                                                                                                                                                                  | Claims as filed on April 1, 2013 for U.S. Appln No. 13/854,521 (5 pgs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |
| Examiner<br>Signature |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date<br>Considered |

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|                       | A1204                                                                                                                                                                                                                                  | Claims as filed on April 30, 2013 for U.S. Appln No. 13/874,145 (5 pgs).           |                    |
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|                       | A1208                                                                                                                                                                                                                                  | Claims as filed on August 21, 2009 for U.S. Appln No. 12/545,127 (5 pgs).          |                    |
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|                       | A1211                                                                                                                                                                                                                                  | Claims as filed on December 20, 2012 for U.S. Appln No. 13/722,576 (4 pgs).        |                    |
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|                  | A1515                                                                                                                                                                                                                                  | Nokia N95 8GB User Guide, copyright 2009, (from the Wells Fargo Bank, N.A. IPR2019-00815, filed on March 20, 2019), Part 3 of 3, 53 pgs.                                                                                                               |
|                  | A1516                                                                                                                                                                                                                                  | Patel, Kunur, Ad Age, "How Mobile Technology Is Changing Banking's Future", dated September 21, 2009, 3 pgs.                                                                                                                                           |
|                  | A1517                                                                                                                                                                                                                                  | Remote Deposit Capture Basic Requirements, dated August 22, 2009, 1 pg.                                                                                                                                                                                |
|                  | A1518                                                                                                                                                                                                                                  | Remote Deposit Capture.com Scanner Matrix, dated October 21, 2011, 3 pgs.                                                                                                                                                                              |
|                  | A1519                                                                                                                                                                                                                                  | Rowles, Tony, "USAA-v. Wells Fargo No. 2:16-cv-245-JRGL e-mail correspondence dated January 24, 2019, 2 pgs.                                                                                                                                           |
|                  | A1520                                                                                                                                                                                                                                  | Sechrest, Stuart et al., "Windows XP Performance", Microsoft, dated 6/1/2001, 20 pgs.                                                                                                                                                                  |
|                  | A1521                                                                                                                                                                                                                                  | Spenser, Harvey, "White Paper Check 21 Controlling Image Quality At The Point of Capture", dated 2004, 7 pgs.                                                                                                                                          |
|                  | A1522                                                                                                                                                                                                                                  | Timothy R. Crews list of Patents, printed from the United States Patent and Trademark Office on Feb. 13, 2019, 7 pgs.                                                                                                                                  |
|                  | A1523                                                                                                                                                                                                                                  | Van Dyke, Jim, "2017 Mitek Mobile Deposit Benchmark Report", copyright 2017, 50 pgs.                                                                                                                                                                   |
|                  | A1524                                                                                                                                                                                                                                  | WAUSAU, "Understanding Image Quality & Usability Within a New Environment", copyright 2019, 1 pg.                                                                                                                                                      |
|                  | A1525                                                                                                                                                                                                                                  | Whitney, Steve et al., "A Framework For Exchanging Image Returns", dated July 2001, 129 pgs.                                                                                                                                                           |
|                  | A1526                                                                                                                                                                                                                                  | CBM2019-00005 Patent No. 8,699,779, Patent Owner's Sur-Reply Brief to Petitioner's Reply Brief to Patent Owner Preliminary Response Pursuant to Authorization Provided in Paper No. 15, dated May 1, 2019, 7 pgs.                                      |
|                  | A1527                                                                                                                                                                                                                                  | CBM2019-00004 Patent No. 8,977,571, Defendant's Claim Construction Brief and supporting exhibits, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated April 25, 2019, 186 pgs.                       |
|                  | A1528                                                                                                                                                                                                                                  | USAA's Opening Claim Construction Brief, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated April 11, 2019, 32 pgs.                                                                                 |
|                  | A1529                                                                                                                                                                                                                                  | CBM2019-00004 Patent No. 8,977,571, Patent Owner's Sur-Reply Brief to Petitioner's Reply Brief to Patent Owner Preliminary Response Pursuant to Authorization Provided in Paper 14, dated April 30, 2019, 7 pgs.                                       |
|                  | A1530                                                                                                                                                                                                                                  | USAA's Reply to Claim Construction Brief, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 2, 2019, 15 pgs.                                                                                   |
|                  | A1531                                                                                                                                                                                                                                  | CBM2019-00005 Patent No. 8,699,779, Patent Owner's Sur-Reply Brief Pursuant to Petitioner's Reply Brief to Patent Owner Preliminary Response Pursuant to Authorization Provided in Paper 15, dated May 1, 2019, 7 pgs.                                 |
|                  | A1532                                                                                                                                                                                                                                  | P.R. 4-3 Joint Claim Construction and Pre-Hearing Statement, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-366, dated April 5, 2019, 190 pgs.                                                             |
|                  | A1533                                                                                                                                                                                                                                  | Defendant Wells Fargo Bank, N.A.'s Amended Answer, Affirmative Defenses, and Counterclaims to Plaintiff's Complaint, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-366, dated April 12, 2019, 32 pgs.     |

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| Examiner Signature |  | Date Considered |  |
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**Information Disclosure Statement**

Application No. To be assigned

Attorney Docket No. US-0152.11 (14538-668)

| EXAMINER<br>INITIAL   | Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |                                                                                                                                                                                                                                                                               |                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                       | A1534                                                                                                                                                                                                                                  | Plaintiff and Counterclaim Defendant's Answer to Defendant and Counterclaims Plaintiff's Amended Answer, Affirmative Defenses, & Counterclaims, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-366, dated April 26, 2019, 18 pgs. |                    |
|                       | A1535                                                                                                                                                                                                                                  | Plaintiff and Counterclaim Defendant's Answer to Defendant and Counterclaims Plaintiff's Amended Answer, Affirmative Defenses, & Counterclaims, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated March 21, 2019, 36 pgs. |                    |
|                       | A1536                                                                                                                                                                                                                                  | USAA's Reply Claim Construction Brief, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 2, 2019, 227 pgs.                                                                                                            |                    |
|                       | A1537                                                                                                                                                                                                                                  | Parties' P.R. 4-5(D) Joint Claim Construction Chart, United Services Automobile Association v. Wells Fargo Bank, N.A., Civil Action No. 2:18-cv-245, dated May 9, 2019, 25 pgs.                                                                                               |                    |
|                       | A1538                                                                                                                                                                                                                                  | CBM2019-00002 Patent No. 9,818,090, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated April 26, 2019, 5 pgs.                                                                                                                    |                    |
|                       | A1539                                                                                                                                                                                                                                  | CBM2019-00003 Patent No. 9,336,517, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated June 3, 2019, 28 pgs.                                                                                                                     |                    |
|                       | A1540                                                                                                                                                                                                                                  | CBM2019-00004 Patent No. 8,977,571, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated May 15, 2019, 33 pgs.                                                                                                                     |                    |
|                       | A1541                                                                                                                                                                                                                                  | CBM2019-00005 Patent No. 8,699,779, Decision Denying Institution of Covered Business Method Patent Review 37 C.F.R. § 42.208, dated June 3, 2019, 27 pgs.                                                                                                                     |                    |
|                       | A1542                                                                                                                                                                                                                                  | USAA's Opening Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 17, 2019, 670 pgs.                                                                                                                                                                  |                    |
|                       | A1543                                                                                                                                                                                                                                  | Defendant's Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 31, 2019, 111 pgs.                                                                                                                                                                     |                    |
|                       | A1544                                                                                                                                                                                                                                  | Plaintiff's Notice of Filing Claim Construction Presentation, filed in Civil Action No. 2:18-CV-245, dated May 23, 2019, 106 pgs.                                                                                                                                             |                    |
|                       | A1545                                                                                                                                                                                                                                  | IPR2019-01081 Patent No. 9,336,517, Petition for <i>Inter Partes</i> Review of Claims 1, 5-10, 12-14, 17-20 of US Patent No. 9,336,517, dated June 5, 2019, 78 pgs.                                                                                                           |                    |
|                       | A1546                                                                                                                                                                                                                                  | IPR2019-01082 Patent No. 8,977,571, Petition for <i>Inter Partes</i> Review of Claims 1-13 Patent No. 9,336,517, dated June 5, 2019, 75 pgs.                                                                                                                                  |                    |
|                       | A1547                                                                                                                                                                                                                                  | IPR2019-01083 Patent No. 8,699,779, Petition for <i>Inter Partes</i> Review of Claims 1-18 Patent No. 9,336,517, dated June 5, 2019, 74 pgs.                                                                                                                                  |                    |
|                       | A1548                                                                                                                                                                                                                                  | Plaintiff's Notice of Decisions Denying Institution of Covered Business Method Patent Review, filed in Civil Action No. 2:18-CV-245, dated June 6, 2019, 61 pgs.                                                                                                              |                    |
|                       | A1549                                                                                                                                                                                                                                  | Claim Construction Memorandum Opinion and Order, filed in Civil Action No. 2:18-CV-245, dated June 13, 2019, 48 pgs.                                                                                                                                                          |                    |
|                       | A1550                                                                                                                                                                                                                                  | Parties' P.R. 4-5(D) Joint Claim Construction Chart, filed in Civil Action No. 2:18-CV-245, dated June 14, 2019, 28 pgs.                                                                                                                                                      |                    |
|                       | A1551                                                                                                                                                                                                                                  | Defendant's Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated May 31, 2019, 111 pgs.                                                                                                                                                                     |                    |
|                       | A1552                                                                                                                                                                                                                                  | USAA's Reply Claim Construction Brief, filed in Civil Action No. 2:18-CV-366, dated June 7, 2019, 40 pgs.                                                                                                                                                                     |                    |
|                       | A1553                                                                                                                                                                                                                                  | Wells Fargo's Objections to Magistrate Judge Payne's Claim Construction Memorandum and Order, filed in Civil Action No. 2:18-CV-245, dated June 27, 2019, 7 pgs.                                                                                                              |                    |
|                       | A1554                                                                                                                                                                                                                                  | USAA's Objections to Magistrate Judge Payne's Claim Construction Memorandum Opinion and Order, filed in Civil Action No. 2:18-CV-245, dated June 27, 2019, 6 pgs.                                                                                                             |                    |
| Examiner<br>Signature |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                               | Date<br>Considered |

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# Information Disclosure Statement

Application No. To be assigned

Attorney Docket No. US-0152.11 (14538-668)

| EXAMINER INITIAL | Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |                                                                                                                                  |
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|                  | A1555                                                                                                                                                                                                                                  | Parties' P.R. 4-5(D) Joint Claim Construction Chart, filed in Civil Action No. 2:18-CV-366, dated June 18, 2019, 27 pgs.         |
|                  | A1556                                                                                                                                                                                                                                  | IPR2019-00815, Invalidity Chart, uploaded on June 27, 2019, 94 pgs.                                                              |
|                  | A1557                                                                                                                                                                                                                                  | IPR2019-00815, United Services Automobile Association ("USAA")'s Patent Owner Preliminary Response, dated July 27, 2019, 66 pgs. |
|                  | A1558                                                                                                                                                                                                                                  | IPR2019-00815, Supplemental Invalidity Chart, dated on June 27, 2019, 16 pgs.                                                    |
|                  | A1559                                                                                                                                                                                                                                  | IPR2019-00815, Declaration of Matthew A. Calman in Support of Patent Owner Preliminary Response, dated June 27, 2019, 25 pgs.    |

## 1. PRIORITY INFORMATION:

- ☒ This application claims priority under 35 USC §120 to the following United States patent application(s): 16,165,622; 16/025,679; 15/663,284; 14/225,090 and 11/590,974. In accordance with 37 CFR §1.98(d), copies of the references cited herein which were submitted to, or cited by, the office, in compliance with 37 CFR §1.98(a)-(c) in the earlier application are not provided herewith. The Examiner is directed to those references cited in all Information Disclosure Statements filed in the priority United States patent application(s) cited above in addition to the references cited herein.

## 2. CERTIFICATIONS: (CHECK ALL THAT APPLY)

### A. Certifications For 37 CFR §1.97(c) or 37 CFR §1.97(d):

- ☐ Applicant hereby certifies pursuant to 37 CFR §1.97(e)(1) that each item of information in this 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 this Information Disclosure Statement.
- ☐ Applicant hereby certifies pursuant to 37 CFR §1.97(e)(2) that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c), more than three months prior to the filing of this Information Disclosure Statement.

### B. For Patent Term Adjustment Purposes:

- ☐ For purposes of 37 CFR §1.704(d)(i) or 37 CFR §1.704(d)(ii), Applicant hereby certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a patent office in a counterpart foreign or international application or from the Office or is a communication that was issued by a patent office in a counterpart foreign or international application or by the Office, and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

## 3. FEE INFORMATION: (CHECK IF FEE REQUIRED)

- ☐ Applicant has calculated a processing fee in the amount of \$\_\_\_\_\_ to be due under 37 CFR §1.17(p) in connection with the filing of this Information Disclosure Statement. Applicant authorizes charging the fee to Deposit Account 50-4184.
- ☐ The Director is hereby authorized to charge any fee deficiency associated with the filing of this Information Disclosure Statement to Deposit Account 50-4184.

Pursuant to the undersigned attorney's obligation and duties under 37 CFR §§ 1.56 and 1.98(a)(3) and (c), either English language abstracts, partial translations, or full translations are included for patent documents which are not in English for the express purpose of providing a concise explanation of the references to the Patent and Trademark Office with the opportunity to evaluate the same. Applicant respectfully requests the Examiner's consideration of the above reference(s) and entry thereof into the record of this application.

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| Examiner Signature |  | Date Considered |  |
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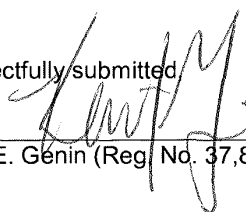
**Information Disclosure Statement**

Application No. To be assigned

Attorney Docket No. US-0152.11 (14538-668)

By submitting this Statement, Applicant is attempting to fully comply with the duty of candor and good faith mandated by 37 CFR §1.56. As such, this Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, constitutes "prior art" or is otherwise "material to patentability," as that phrase is defined in 37 CFR §1.56(a).

Respectfully submitted



July 10, 2019

Date

Kent E. Genin (Reg. No. 37,834)

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
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| Electronic Acknowledgement Receipt   |                                  |
|--------------------------------------|----------------------------------|
| EFS ID:                              | 36540708                         |
| Application Number:                  | 16507595                         |
| International Application Number:    |                                  |
| Confirmation Number:                 | 4037                             |
| Title of Invention:                  | DIGITAL CAMERA PROCESSING SYSTEM |
| First Named Inventor/Applicant Name: | Charles Lee Oakes                |
| Customer Number:                     | 16530                            |
| Filer:                               | Kent E. Genin/Michael Agustin    |
| Filer Authorized By:                 | Kent E. Genin                    |
| Attorney Docket Number:              | US-0152.11   14538-668           |
| Receipt Date:                        | 10-JUL-2019                      |
| Filing Date:                         |                                  |
| Time Stamp:                          | 15:08:53                         |
| Application Type:                    | Utility under 35 USC 111(a)      |

Payment information:

| Submitted with Payment |                      | no                        |                                          |                  |                  |
|------------------------|----------------------|---------------------------|------------------------------------------|------------------|------------------|
| File Listing:          |                      |                           |                                          |                  |                  |
| Document Number        | Document Description | File Name                 | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
| 1                      |                      | 14538_668_Application.pdf | 2290095                                  | yes              | 26               |
|                        |                      |                           | 9cfee4954ecd9b2320b7e99929e6d7cdd3259f96 |                  |                  |

|                                                 | Multipart Description/PDF files in .zip description |                                      |                                          |     |    |
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|                                                 | Abstract                                            |                                      | 26                                       | 26  |    |
|                                                 | Claims                                              |                                      | 22                                       | 25  |    |
|                                                 | Specification                                       |                                      | 1                                        | 21  |    |
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| 3                                               | Miscellaneous Incoming Letter                       | 14538_668_Transmittal_071019.pdf     | 293116                                   | no  | 2  |
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| 4                                               | Application Data Sheet                              | 14538_668_ADS_071019.pdf             | 1062970                                  | no  | 10 |
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| 6                                               | Nonpublication request from applicant               | 14538_668_NonPub_071019.pdf          | 171316                                   | no  | 1  |
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| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            | 14538_668_373POA_071019.pdf | 357961                                   | yes        | 3  |  |  |  |  |  |  |
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| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Information Disclosure Statement (IDS) Form (SB08)         | 14538_668_IDS_071019.pdf    | 6756238                                  | no         | 43 |  |  |  |  |  |  |
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| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
| This is not an USPTO supplied IDS fillable form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                             |                                          |            |    |  |  |  |  |  |  |
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| <p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> 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.</p> |                                                            |                             |                                          |            |    |  |  |  |  |  |  |

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

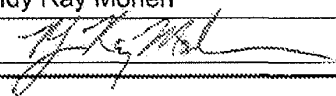
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| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
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| <b>LEGAL NAME OF INVENTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| Inventor: <u>Charles Lee Oakes, III</u> Date (Optional): <u>9/2/2014</u><br>Signature: <u>Charles Lee Oakes III</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

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| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
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| <b>LEGAL NAME OF INVENTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| Inventor: <u>Randy Ray Morlen</u> Date (Optional): _____<br>Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
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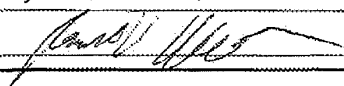
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

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| <b>Title of Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
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| <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Michael Frank Morris</u> Date (Optional): <u>9-3-2014</u></p> <p>Signature: <u><i>Michael Frank Morris</i></u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
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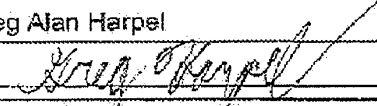
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| <b>Title of Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
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| <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Reynaldo Medina, III</u> Date (Optional): <u>9-3-14</u></p> <p>Signature: </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |
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| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
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| Inventor: <u>Greg Alan Harpel</u> Date (Optional): <u>9/3/2014</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
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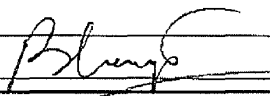
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| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS |
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| <p><b>WARNING:</b></p> <p>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.</p> |                                                  |
| LEGAL NAME OF INVENTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
| Inventor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Gabriel Glenn Gavia                              |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <i>Gabe Gavia</i>                                |
| Date (Optional):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8/4/14                                           |
| <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |

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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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.

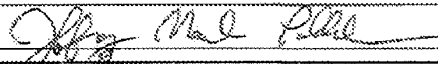
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
 APPLICATION DATA SHEET (37 CFR 1.76)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
| <p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input type="checkbox"/> The attached application, or<br/> <input checked="" type="checkbox"/> United States application or PCT international application number <u>14/225,090</u><br/>         filed on <u>March 25, 2014</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p> |                                                         |
| <b>LEGAL NAME OF INVENTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |
| Inventor: <u>Bharat Prasad</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Date (Optional): <u>09/03/2014</u>                      |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |

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

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Title of<br>Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
| <p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input type="checkbox"/> The attached application, or</p> <p style="margin-left: 100px;"><input checked="" type="checkbox"/> United States application or PCT international application number <u>14/225,090</u></p> <p style="margin-left: 100px;">filed on <u>March 25, 2014</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p align="center"><b>WARNING:</b></p> <p>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.</p> |                                                         |
| <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Jeffrey Neal Pollack</u> Date (Optional) : _____</p> <p>Signature: </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |
| <p><small>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.</small></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |

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

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |
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| <b>Title of<br/>Invention</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>SYSTEMS AND METHODS FOR REMOTE DEPOSIT OF CHECKS</b> |
| <p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input type="checkbox"/> The attached application, or<br/><input checked="" type="checkbox"/> United States application or PCT international application number <u>14/225,090</u><br/>filed on <u>March 25, 2014</u>.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p> |                                                         |
| <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Frank Kyle Major</u> Date (Optional): <u>09/12/2017</u></p> <p>Signature: <u><i>Frank K Major</i></u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |
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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☒ Practitioners associated with Customer Number: 16530

OR

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

| Name | Registration Number |
|------|---------------------|
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |
|      |                     |

| Name | Registration Number |
|------|---------------------|
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|      |                     |
|      |                     |

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

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

☒ The address associated with Customer Number: 16530

OR

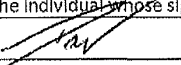
|                                                  |       |     |
|--------------------------------------------------|-------|-----|
| <input type="checkbox"/> Firm or individual name |       |     |
| Address                                          |       |     |
| City                                             | State | Zip |
| Country                                          |       |     |
| Telephone                                        | Email |     |

Assignee name and address: United Services Automobile Association (USAA)  
9800 Fredericksburg Road  
San Antonio, TX 78288

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

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

|                                                                                               |              |
|-----------------------------------------------------------------------------------------------|--------------|
| Signature  | Date 9/11/17 |
| Name Daniel Wybenga                                                                           | Telephone    |
| Title Intellectual Property Counsel                                                           |              |

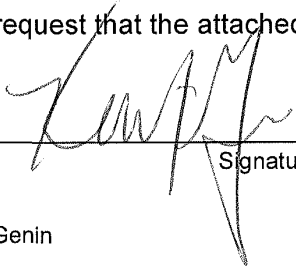
This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 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.

|                                                                       |                        |                                  |                        |
|-----------------------------------------------------------------------|------------------------|----------------------------------|------------------------|
| <b>NONPUBLICATION REQUEST<br/>UNDER<br/>35 U.S.C. 122(b)(2)(B)(i)</b> | First Named Inventor   |                                  | Charles Lee Oakes      |
|                                                                       | Title                  | DIGITAL CAMERA PROCESSING SYSTEM |                        |
|                                                                       | Attorney Docket Number |                                  | US-0152.11   14538-668 |

I hereby 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.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

|                                                                                                                                                                                                                 |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <div style="text-align: center;">Signature</div> | <div style="text-align: right; margin-bottom: 5px;">July 10, 2019</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <div style="text-align: center;">Date</div>     |
| <div style="margin-bottom: 5px;">Kent E. Genin</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <div style="text-align: center;">Typed or printed name</div>                     | <div style="margin-bottom: 5px;">37,834</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <div style="text-align: center;">Registration Number, if applicable</div> |
| <div style="margin-bottom: 5px;">312-321-4200</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <div style="text-align: center;">Telephone Number</div>                           |                                                                                                                                                                                                   |

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**STATEMENT UNDER 37 CFR 3.73(c)**Applicant/Patent Owner: United Services Automobile Association (USAA)Application No./Patent No.: TBA Filed/Issue Date: HerewithTitled: DIGITAL CAMERA PROCESING SYSTEMUnited Services Automobile Association (USAA), a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is \_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 047275, Frame 0428, or for which a copy thereof is attached.

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at

Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at

Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet(s).☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Kent E. Genin

Printed or Typed Name

July 10, 2019

Date

37,834

Title or Registration Number

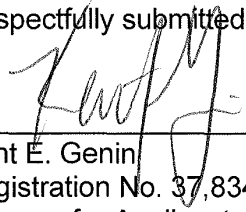
[Page 2 of 2]

**REMARKS**

A reference to the parent applications to which domestic priority is claimed has been added to the first line of the application as required by 37 C.F.R. §1.78.

Applicant submits that no new matter has been added.

Respectfully submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
APPLICATION FOR UNITED STATES LETTERS PATENT

|            |                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INVENTORS: | Charles Lee Oakes<br>Randy Ray Morlen<br>Michael Frank Morris<br>Reynaldo Medina<br>Greg Alan Harpel<br>Gabriel Glenn Gavia<br>Bharat Prasad<br>Frank Kyle Major<br>Jeffrey Neal Pollack |
| TITLE:     | DIGITAL CAMERA PROCESSING<br>SYSTEM                                                                                                                                                      |
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## **DIGITAL CAMERA PROCESSING SYSTEM**

**[0001]** Checks typically provide a safe and convenient method for an individual to purchase goods and/or services. To use a check, the individual usually must open a checking account, or other similar account, at a financial institution and deposit funds, which are then available for later withdrawal. To pay for goods and/or services with a check, the payor (i.e., the buyer) usually designates a payee (i.e., the seller) and an amount payable on the check. In addition, the payor often signs the check. Once the check has been signed, it is usually deemed negotiable, meaning the check may be validly transferred to the payee upon delivery. By signing and transferring the check to the payee, the payor authorizes funds to be withdrawn from the payor's account on behalf of the payee in return for the goods and/or services provided by the payee.

**[0002]** Checks have certain advantages over other forms of payment, such as cash. For example, while often considered the most liquid type of asset, cash also may be the least secure. Unlike a check, cash is usually freely transferable and does not have to be endorsed. Thus, the owner and possessor of cash is most often the same individual. Because cash is freely transferable, cash that is lost or stolen typically cannot be recovered. Therefore, the risks associated with cash transactions are often unacceptable, particularly with respect to transactions not conducted in person (e.g., by mail) and/or involving large sums of money. A check, on the other hand, provides a payor with more security because the check usually requires a payor to specify both the person and amount to be paid. Furthermore, as noted above, the check is usually not valid until it is properly signed by the payor. These safeguards help to reduce the risk that money will be lost and/or stolen and ensure that the proper payee receives the proper amount of money.

**[0003]** Cash may have other disadvantages as well. For example, because cash is freely transferable, there may be little or no verifiable transaction history. It is often desirable for a payor and/or payee to have physical proof that a particular transaction took place. This typically requires that the payor receive a receipt. However, receipts may contain errors and can be easily misplaced. In contrast, a bank processing a check will ordinarily create a transaction history, which may include the identity of the payee, the amount to be paid, the date of the payment, and the signature of the payor. This enables both a payor and payee to independently verify the accuracy of most transactions involving a payment by check.

**[0004]** While a check may provide a payor with a convenient and secure form of payment, receiving a check may put certain burdens on the payee, such as the time and effort required to deposit the check. For example, depositing a check typically involves going to a local bank branch and physically presenting the check to a bank teller. In addition to the time commitment that may be required, visiting a bank branch may be problematic for the payee if the bank's hours of operation coincide with the payee's normal hours of employment. Thus, the payee may be required to leave work early and/or change work schedules.

**[0005]** A check may pose other burdens for the payee. As noted above, a check may not be freely transferable, thereby limiting the payee's ability to use funds from the check. For example, it is usually difficult for the payee to purchase goods and/or services using a check issued by the payor. While the check may be endorsed and accepted by a third party, such transactions are often disfavored because the third party may not know the payor and, thus, may not be willing to accept the risk that the payor has insufficient funds to cover the check. Therefore, the payee may not have access to the funds from the check until the payee deposits the check at the bank, the check has cleared and the funds have been credited to the payee's account. The payee may have to wait even longer if the payee chooses to deposit the check by mail. Therefore, there is a need for a convenient method of remotely depositing a check while enabling the payee to quickly access the funds from the check.

**[0006]** The described embodiments contemplate a system, method and computer-readable medium with computer-executable instructions for remotely redeeming a negotiable instrument. In an embodiment, a novel system may include financial institution electronics, such as a server equipped with appropriate hardware and software for facilitating deposit of a check. Such electronics may be configured for receiving from a customer computer an identification of an account for deposit of a check, and an amount of said check. They may be further configured for receiving an image of a front side of said check, and for analyzing said image to determine if it meets at least one criterion. The criterion could be, for example, image size, image legibility, image orientation, image format, presence of certain image features that indicate the image in fact represents a check, and so forth. Financial institution electronics may be also configured for determining if there is an error in a deposit transaction. Numerous errors are possible candidates for detection, and several exemplary errors are provided herein. If there are no errors that warrant aborting the transaction, then such electronics may be further configured to initiate a deposit of

the check.

[0007] In another embodiment, a novel system may include, for example, a computer readable medium bearing instructions that can configure a customer's general purpose computer to facilitate a check deposit. Acting under direction of such instructions, the general purpose computer may instruct a customer, for example via a display coupled such computer, in utilizing an image capture device to generate an electronic image of a front side of a check, such that said electronic image of a front side of a check meets at least one first criterion such as image size, image legibility, image orientation, image quality, and location and/or orientation of the check within the image. Instructions may further be provided for receiving the image of a front side of a check from said image capture device, and optionally instructing the customer to process the image, e.g., by approving the image and/or modifying it to meet at least one second criterion. A second criterion might also be, for example, one or more of image size, image legibility, image orientation, image quality, and location and/or orientation of the check within the image. Finally, the customer computer, acting under direction of the instructions, may deliver an approved electronic image to financial institution electronics.

[0008] Additional advantages and features of the invention are described below.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The systems and methods for remote deposit of checks in accordance with the present disclosure are further described with reference to the accompanying drawings in which:

[0010] Figure 1 illustrates a broad view of a system in which the described embodiments may be employed.

[0011] Figure 2 an exemplary general purpose computing device that is communicatively coupled to financial institution electronics as well as an image capture device.

[0012] Figure 3 illustrates an exemplary schematic architecture of an image capture device as may be used in connection with various embodiments of the invention.

[0013] Figure 4 illustrates an exemplary network architecture as may connect the customer's general purpose computer to financial institution electronics and may also serve to connect components of financial institution electronics as well as various financial institutions to one another.

[0014] Figure 5 illustrates financial institution electronics coupled to a computer 530, and the various aspects of electronics 500 and computer 530 that may operate to implement the novel

systems, methods, and computer readable media set forth herein.

**[0015]** Figure 6 illustrates a view of the invention with particular focus on the software component 600 which may perform certain operations in connection with embodiments of the invention.

#### DETAILED DESCRIPTION

**[0016]** Certain specific details are set forth in the following description and figures to provide a thorough understanding of various embodiments of the invention. Certain well-known details often associated with computing and software technology are not set forth in the following disclosure, however, to avoid unnecessarily obscuring the various embodiments of the invention. Further, those of ordinary skill in the relevant art will understand that they can practice other embodiments of the invention without one or more of the details described below. Finally, while various methods are described with reference to steps and sequences in the following disclosure, the description as such is for providing a clear implementation of embodiments of the invention, and the steps and sequences of steps should not be taken as required to practice this invention.

**[0017]** Fig. 1 illustrates an example system in which the described embodiments may be employed. System 100 may include account owner 110, e.g., a bank customer who may be located, for example, at the customer's private residence. The account owner 110 may be utilizing a customer-controlled, general purpose computer 111. General purpose computer may be coupled to an image capture device 112. Customer 110 may use the image capture device 112 to generate an image of a negotiable instrument such as a check, and may send the image, along with any other data as appropriate, via a publicly accessible network 120 to financial institution 130 electronics such as server 131.

**[0018]** In one embodiment, the financial institution controlling electronics 131 is also the institution at which the customer has an account 160. Financial institution 130 may perform a variety of steps to process the incoming check image and other data. For example, financial institution may ensure the check is valid, ensuring the check image is in proper form for electronic handling, ensure it is not a duplicate of a previously deposited check, and so forth. Financial institution 130 may also forward the image over a network 125 to one or more other entities 140, 150, which may be associated with an account 170 on which the check was drawn.

**[0019]** A general purpose computer 111 is generally a Personal Computer (PC) running one of the well-known WINDOWS® brand operating systems made by MICROSOFT® Corp., or a

MACINTOSH® (Mac) brand computer, running any of the APPLE® operating systems. General purpose computers are ubiquitous today and the term should be well understood. A general purpose computer 111 may be in a desktop or laptop configuration, and generally has the ability to run any number of applications that are written for and compatible with the computer's operating system. The term "general purpose computer" specifically excludes specialized equipment as may be purchased by a business or other commercial enterprise, for example, for the specialized purpose of high-speed, high-volume check deposits. A particular advantage of embodiments of the invention is its ability to operate in conjunction with electronics that today's consumers actually own or can easily acquire, such as a general purpose computer, a scanner, and a digital camera.

**[0020]** An exemplary general purpose computer 111 as may be utilized in conjunction with embodiments of the invention is illustrated in Fig. 2. Device electronics 200 are illustrated in Fig. 2, and a schematic blowup 202 is provided to illustrate an exemplary internal architecture of the device. Computing architecture 202 includes one or more processors or processing units 204, a system memory 206, and a bus 208 that couples various system components including the system memory 206 to processors 204. The bus 208 represents one or more of any of several types of bus structures, including a memory bus or memory controller, a peripheral bus, an accelerated graphics port, and a processor or local bus using any of a variety of bus architectures. The system memory 206 includes read only memory (ROM) 212 and random access memory (RAM) 210. A basic input/output system (BIOS) 214, containing the basic routines that help to transfer information between elements within computing device 200, such as during start-up, is stored in ROM 212.

**[0021]** Computing architecture 202 further includes a hard disk drive 226, and may include a magnetic disk drive 2218 for reading from and writing to a removable magnetic disk 220, and an optical disk drive 222 for reading from or writing to a removable optical disk 224 such as a CD ROM or other optical media. The hard disk drive 226, magnetic disk drive 218, and optical disk drive 224 are connected to the bus 208 by appropriate interfaces. The drives and their associated computer-readable media provide nonvolatile storage of computer-readable instructions, data structures, program modules and other data for computing device 200. Although the exemplary environment described herein employs a hard disk, a removable magnetic disk 218 and a removable optical disk 224, other types of computer-readable media such as magnetic cassettes,

flash memory cards, digital video disks, random access memories (RAMs), read only memories (ROMs), and the like, may also be used in the exemplary operating environment.

**[0022]** A number of program modules may be stored on the hard disk 226, magnetic disk 218, optical disk 224, ROM 212, or RAM 210, including an operating system 227, one or more application programs 228, other program modules 230, and program data 232. A user may enter commands and information into computing device 200 through input devices such as a keyboard 234 and a pointing device 236. An image capture device 246 may also be coupled to the general purpose computer 200 as an input device. Other input devices 238 may include a microphone, joystick, game pad, satellite dish, or the like. These and other input devices are connected to the processing unit 204 through interfaces 240 that are coupled to the bus 208. A monitor 242 or other type of display device is also connected to the bus 208 via an interface 224, such as a video adapter 224.

**[0023]** Generally, the data processors of computing device 200 are programmed by means of instructions stored at different times in the various computer-readable storage media of the computer. Programs and operating systems may be distributed, for example, on floppy disks, CD-ROMs, or electronically, and are installed or loaded into the secondary memory of a computer. At execution, the programs are loaded at least partially into the computer's primary electronic memory 206.

**[0024]** Computing device 200 may operate in a networked environment using logical connections to one or more remote computers, such as financial institution electronics 248. The financial institution electronics 248 may be one or more server computers, routers, network PCs, and so forth, which typically include many or all of the elements described above relative to computing device 200. The financial institution electronics 248 may run remote application programs 258 which may operate in concert with application programs 228 that execute on the computer 200. For example, a "software component" as described herein may, in one embodiment, execute pursuant to commands from a remote application program 258. The software component may of course also operate in a more autonomous manner, performing certain tasks and then communicating data as necessary back to the remote application programs 258.

**[0025]** When used in a LAN networking environment, a computer 200 is connected to a local network 250 through a network interface or adapter 254. When used in a WAN networking

environment, computing device 200 typically includes a modem 256 or other means for establishing communications over the wide area network 252, such as the Internet. The modem 256, which may be internal or external, can be connected to the bus 208 for example via a serial port interface, or by sending a signal to a wireless router which then broadcasts and receives wireless signals to and from a wireless card that is connected to the computer 200.

**[0026]** In a networked environment, program modules depicted relative to the computing device 200, or portions thereof, may be stored in the remote memory storage device. It will be appreciated that the network connections shown are exemplary and other means of establishing a communications link between the computers may be used.

**[0027]** A general purpose computer such as 200 may also be "customer-controlled." A common example of a customer-controlled computer would be a typical computer located in a private residence. The owner of such a computer typically has the power to install programs and configure the computer as they wish, subject to certain security restrictions that may be imposed by the hardware or software manufacturers. A customer-controlled computer need not be located in a private residence, however. For example, computers in college dormitories, in workplace offices, and so forth may also be considered to be "customer-controlled."

**[0028]** An example of a computer that would not be considered customer-controlled would be an Automatic Teller Machine (ATM) that is typically controlled by a bank or other business. Although a customer may access and utilize an ATM machine, the ATM machine is not customer-controlled because the allowed uses of the ATM machine are highly restricted. Relevant factors in determining whether a machine is customer controlled are thus the scope of operations that a customer may perform using the machine, and extent to which the customer can reconfigure the machine in some way by adding software and/or hardware components.

**[0029]** One of the applications 228 that may run on a general purpose computer 200 in connection with the invention is a browser. Common browsers in use today are, for example, the popular INTERNET EXPLORER® line of browsers made by MICROSOFT® Corp., the FIREFOX® browsers distributed via the MOZILLA® open source project, and the NETSCAPE NAVIGATOR® browsers also distributed via the MOZILLA® open source project. Browsers generally allow users to point to a Uniform Resource Locator (URL), and thereby retrieve information such as a web page. For example, a browser application on computer 200 could retrieve a web page that is kept at server associated with financial institution electronics 248, and

display the web page on display 242 to the account owner 110 (Fig. 1), as is generally known and appreciated in the industry and by the general public.

**[0030]** Another application 228, or set of applications, that may run on a general purpose computer 200 in connection with the invention comprises "virtual machine" technologies such as the JAVA® virtual machine software distributed by SUN MICROSYSTEMS® Corp, and .NET® Framework distributed by MICROSOFT® Corp. In general, such applications facilitate execution of further application programs 228 in a variety of computing environments. For example, a JAVA® applet is a computer program (which may be alternatively referred to herein as a "software component") that can execute on any computer running the JAVA® virtual machine software. The applet may be provided to virtual machine software in a "source code" format, and may be compiled by a "just in time" compiler, so as to put the applet in a form that can be executed by the hardware associated with the particular computing device. These technologies are known in the art and may be utilized in connection with certain embodiments of the invention as described herein.

**[0031]** Referring back to Fig. 1, an image capture device 112 may be communicatively coupled to the computer 111. Image capture device 112 may be, for example, a scanner or digital camera. Computer 111 may comprise software that allows the user to control certain operations of the image capture device 112 from the computer 111. For example, modern scanner users may be familiar with the TWAIN® software is often used to control image capture from a computer 111. Similarly, digital cameras often ship along with software that allows users to move images from the camera to a computer 111, and may also provide additional functions, such as photo editing functions crop and rotate.

**[0032]** Referring now to Fig. 3, a schematic illustration of an exemplary image capture device architecture 300 is illustrated. As with the general purpose computer 200 of Fig. 2, an image capture device may comprise a processing unit 302 and memory 303. Depending on the exact configuration and type of image capture device, memory 303 may be volatile (such as RAM), non-volatile (such as ROM, flash memory, etc.) or some combination of the two. Additionally, image capture device 300 may have mass storage (removable 304 and/or non-removable 305) such as magnetic or optical disks or tape. Image capture device 300 may have image capture apparatus 307 such as a scanner bed, camera lens, and so forth. Finally, image capture device 300 may include communication connections 308 to other devices, computers, networks, servers,

etc. using either wired or wireless media. In particular, communication connections 308 may serve to communicatively couple device to a general purpose computer such as provided in Fig. 2.

**[0033]** Referring back to Fig. 1, financial institutions 130, 140 and 150 may be any type of entity capable of processing a transaction involving a negotiable instrument. For example, financial institutions 130, 140 and 150 may be a retail bank, investment bank, investment company, regional branch of the Federal Reserve, clearinghouse bank and/or correspondent bank. A negotiable instrument is usually a type of contract that obligates one party to pay a specified sum of money to another party. By way of example, and not limitation, negotiable instruments may include a check, draft, bill of exchange, promissory note, and the like.

**[0034]** Financial institution 130 is illustrated as associated with a server 131. Financial institution 130 may maintain and operate server 131 for the purposes of communicating with customers such as 110. Alternatively, such server may be maintained and operated by one or more third party vendors who act under the instructions of the financial institution 130, but possess skills and resources that may be more effective in competent operation of electronics. Such arrangements are well known in the industry and in this case the server 131 is nonetheless considered to be "associated" with the financial institution 130.

**[0035]** Account owner 110 may be an individual who owns account 160, which may be held at financial institution 130. As such, account owner 110 may be described as a customer of financial institution 130 and/or a "payee" because it is contemplated that customer 110 may deposit a check made out to him- or herself. Embodiments of the invention are also possible, however, in which the customer deposits a check made to another payee, in which case the customer and payee are not one and the same. Account 160 may be any type of account for depositing funds, such as a savings account, checking account, brokerage account, and the like. Account owner 110 may communicate with financial institution 130 by way of communication network 120, which may include an intranet, the Internet, a local area network (LAN), a wide area network (WAN), a public switched telephone network (PSTN), a cellular network, a voice over internet protocol (VoIP) network, and the like. Account owner 110 may communicate with financial institution 130 by phone, email, instant messaging, facsimile, and the like.

**[0036]** In one contemplated embodiment, network 120 is a publicly accessible network such as the Internet, which can presently be accessed from many private residences and many public

places such as college campuses, airports, coffee shops, and restaurants throughout the United States as well as many other countries of the world. A variety of technologies are available to establish secure connections over such a public network, so that data transmitted between computer 111 and a server 131 associated with the institution 130 remains either inaccessible or indecipherable by third parties that may intercept such data. The invention may make use of any such security technologies.

**[0037]** Financial institutions 130, 140 and 150 may communicate with each other via a network 125. Network 125 may be a publicly accessed network such as 120. Alternatively, network 125 may have certain characteristics that differ from network 120, due to the different requirements of bank-to-bank communications. For example, one might envision certain security features and access restrictions being more important in bank-to-bank communications.

**[0038]** Fig. 4 illustrates an exemplary computer network as may be implemented in connection with 120 and 125. One of ordinary skill in the art can appreciate that networks can connect any computer or other client or server device, or in a distributed computing environment. In this regard, any computer system or environment having any number of processing, memory, or storage units, and any number of applications and processes occurring simultaneously is considered suitable for use in connection with the systems and methods provided.

**[0039]** Distributed computing provides sharing of computer resources and services by exchange between computing devices and systems. These resources and services include the exchange of information, cache storage and disk storage for files. Distributed computing takes advantage of network connectivity, allowing clients to leverage their collective power to benefit the entire enterprise. In this regard, a variety of devices may have applications, objects or resources that may implicate the processes described herein.

**[0040]** Fig. 4 provides a schematic diagram of an exemplary networked or distributed computing environment. The environment comprises computing devices 471, 472, 476, and 477 as well as objects 473, 474, and 475, and database 478. Each of these entities 471, 472, 473, 474, 475, 476, 477 and 478 may comprise or make use of programs, methods, data stores, programmable logic, etc. The entities 471, 472, 473, 474, 475, 476, 477 and 478 may span portions of the same or different devices such as PDAs, audio/video devices, MP3 players, personal computers, etc. Each entity 471, 472, 473, 474, 475, 476, 477 and 478 can communicate with another entity 471, 472, 473, 474, 475, 476, 477 and 478 by way of the communications

network 470. In this regard, any entity may be responsible for the maintenance and updating of a database 478 or other storage element.

**[0041]** This network 470 may itself comprise other computing entities that provide services to the system of Fig. 4, and may itself represent multiple interconnected networks. In accordance with an aspect of the invention, each entity 471,472,473,474,475,476,477 and 478 may contain discrete functional program modules that might make use of an API, or other object, software, firmware and/or hardware, to request services of one or more of the other entities 471,472,473,474, 475, 476, 477 and 478.

**[0042]** It can also be appreciated that an object, such as 475, may be hosted on another computing device 476. Thus, although the physical environment depicted may show the connected devices as computers, such illustration is merely exemplary and the physical environment may alternatively be depicted or described comprising various digital devices such as PDAs, televisions, MP3 players, etc., software objects such as interfaces, COM objects and the like.

**[0043]** There are a variety of systems, components, and network configurations that support distributed computing environments. For example, computing systems may be connected together by wired or wireless systems, by local networks or widely distributed networks. Currently, many networks are coupled to the Internet, which provides an infrastructure for widely distributed computing and encompasses many different networks. Any such infrastructures, whether coupled to the Internet or not, may be used in conjunction with the systems and methods provided.

**[0044]** A network infrastructure may enable a host of network topologies such as client/server, peer-to-peer, or hybrid architectures. The "client" is a member of a class or group that uses the services of another class or group to which it is not related. In computing, a client is a process, i.e., roughly a set of instructions or tasks, that requests a service provided by another program. The client process utilizes the requested service without having to "know" any working details about the other program or the service itself. In a client/server architecture, particularly a networked system, a client is usually a computer that accesses shared network resources provided by another computer, e.g., a server. In the example of Fig. 4, any entity 471,472,473,474,475,476, 477 and 478 can be considered a client, a server, or both, depending on the circumstances.

**[0045]** A server is typically, though not necessarily, a remote computer system accessible over a remote or local network, such as the Internet. The client process may be active in a first computer system, and the server process may be active in a second computer system, communicating with one another over a communications medium, thus providing distributed functionality and allowing multiple clients to take advantage of the information-gathering capabilities of the server. Any software objects may be distributed across multiple computing devices or objects.

**[0046]** Client(s) and server(s) communicate with one another utilizing the functionality provided by protocol layer(s). For example, HyperText Transfer Protocol (HTTP) is a common protocol that is used in conjunction with the World Wide Web (WWW), or "the Web." Typically, a computer network address such as an Internet Protocol (IP) address or other reference such as a Universal Resource Locator (URL) can be used to identify the server or client computers to each other. The network address can be referred to as a URL address. Communication can be provided over a communications medium, e.g., client(s) and server(s) may be coupled to one another via TCP/IP connection(s) for high-capacity communication.

**[0047]** Returning again to Fig. 1, in an embodiment, account owner 110 may wish to deposit a check that is drawn from account 170 at financial institution 150. Account owner 110 may deposit the check into account 160 by converting the check into electronic data and sending the data to financial institution 130. Aspects of the invention may thus comprise systems and methods carried out by the account owner 110 and his computer 111. Aspects of the invention may also comprise systems and methods carried out by the financial institution 130 and their server 131 or other electronics that facilitate and enable such deposit by the account owner 110.

**[0048]** For example, account owner 110 may convert the check into a digital image by scanning the front and/or back of the check using image capture device 112. Account owner 110 may then send the image to financial institution 130 using the systems and methods described herein. Please refer to Fig. 5 and corresponding description for a detailed exemplary embodiment of systems and methods for facilitating and processing a check deposit transaction. Upon receipt of the image, financial institution 130 may credit the funds to account 160. Financial institution 130 may clear the check by presenting the digital image to an intermediary bank, such as a regional branch of the Federal Reserve, a correspondent bank and/or a clearinghouse bank.

**[0049]** For example, the check may be cleared by presenting the digital image to financial

institution 140, which may be a regional branch of the Federal Reserve, along with a request for payment. Financial institution 130 and 150 may have accounts at the regional branch of the Federal Reserve. As will be discussed in greater detail below, financial institution 130 may create a substitute check using the image provided by account owner 110 and present the substitute check to financial institution 140 for further processing. Upon receiving the substitute check, financial institution 140 may identify financial institution 150 as the paying bank (e.g., the bank from which the check is drawn). This may be accomplished using a nine-digit routing number located on the bottom left hand corner of the check. A unique routing number is typically assigned to every financial institution in the United States. Financial institution 140 may present the substitute check to financial institution 150 and request that the check be paid. If financial institution 150 verifies the check (i.e., agrees to honor the check), financial institution 140 may then settle the check by debiting funds from financial institution 150 and crediting funds to financial institution 130. Financial institution 150 may then debit funds from account 170.

**[0050]** It will be appreciated that the preceding examples are for purposes of illustration and explanation only, and that an embodiment is not limited to such examples. For example, financial institution 150 may be a correspondent bank (i.e., engaged in a partnership with financial institution 130). Thus, financial institution 130 may bypass the regional branch of the Federal Reserve and clear the check directly with financial institution 150. In addition, account 160 and account 170 may both be held at financial institution 130, in which case the check may be cleared internally.

**[0051]** Fig. 5 illustrates a system for facilitating deposit of a check, in which financial institution electronics 500 communicate with a computer 530 via network 520. There are a variety of unique aspects which may be described with reference to Fig. 5. We begin with a description of operations that may be carried out by the financial institution electronics 500, which will be referred to for the sake of simplicity as "server 500" with the understanding that additional electronics may be involved.

**[0052]** Server 500 may comprise a subsystem 511 for providing a software component 532 to a computer 530. This subcomponent may require the customer to download a virtual machine framework 533 so that the component 532 is operable on the operating system 535 and hardware 537 of the computer 530. In general, the software component allows the financial institution to

control certain aspects of check image creation and delivery by the computer 530. Thus, while the computer 530 may be customer-controlled, the customer downloads component 532 to facilitate a deposit, thereby allowing a financial institution to effectively control certain aspects of the image generation and delivery process.

**[0053]** Server 500 may also comprise a subsystem for user authentication 512, such as by requiring a username and password. Other authentication methods such as requiring a digital certificate, data representing a customer fingerprint, and so forth are also possible. User authentication can open an interactive session supported by a component such as 508, in which the user can exchange information with the server 500 and receive instructions from the server 500. In addition, server 500 may, in some embodiments, control operation of the software component 532.

**[0054]** Server 500 may comprise a subsystem for receiving from a customer-controlled general purpose computer such as 530, an identification of an account for deposit of a check, and an amount of said check. "Remote deposit servlet" 510 may for example provide such functions. Remote deposit servlet 510 may provide a user interface (or user interface data) to a browser 534, and such user interface may prompt a customer to enter information such as an account number and an amount of a check for deposit. In an embodiment where multiple checks are being deposited at once, the customer may itemize the checks by writing an amount of each. It will be appreciated that servlet 510 need not directly take responsibility for a website, and may instead merely communicate with one or more other subsystems that are responsible for doing so.

**[0055]** Server 500 may further comprise a subsystem for receiving from computer 530 an image of a front side of said check. "Image servlet" 509 is such a subsystem in the illustrated embodiment. In embodiments where software component 532 is responsible for delivering images to image servlet 509, servlet 509 may be configured to communicate with component 532 as appropriate. In one embodiment, both an image of a front side of a check and an image of a back side of a check are received. These may be two separate images, or may be a single image in which the separately generated images are "stitched together" for simultaneous viewing as a single image.

**[0056]** Server 500 may further comprise a subsystem for analyzing said image of a front side of said check to determine if it meets at least one criterion. Subsystems 502 and 503 may for

example perform such determining. In order to automate remote check deposits, it is desirable to configure server 500 to recognize that the image it receives is in fact a check, that the check is valid and not a duplicate, and that the received image can be used to further process the transaction. Image quality determination 502 may thus be provided to ensure that the received image can be used to further process the transaction.

**[0057]** Image usability determination subsystem 503 may further require an image to meet additional criteria. For example, it may be required that the image is in a particular format, e.g. a Joint Photographic Experts Group (JPEG) format. While systems may be designed to handle checks in any format, it may be cost effective to require customers to send in only images of specified formats so as to lower development costs of the system. It may also be required that the image is of a predetermined size, or that the image has features indicating it is a negotiable instrument of a desired type. For example, almost all checks have certain features, such as a MICR line, a signature line, an endorsement area on the back, an amount box, a date, and so forth. Often such features are in a consistent location on the check. A subsystem such as 503 may ensure that such features are present prior to allowing the transaction to continue.

**[0058]** Server 500 may further comprise a subsystem for performing Optical Character Recognition (OCR) on said image of said front side of said check. OCR can be useful in determining MICR line information such as routing number, account number, and check number. It can also be used to determine a check amount by performing OCR on the amount location of the check. Other information such as check date, payor name, payor financial institution, and so forth may be gleaned. Such information may be validated, for example, by comparing it to information such as a list of valid routing numbers, comparing an OCR-determined amount to a customer-entered amount, and so forth, or simply stored in a log file.

**[0059]** Server 500 may further comprise a subsystem for determining if there is an error in said deposit of said check. Error processing 506 may be responsible for this, and may comprise a variety of useful aspects. In one embodiment, error processing 506 may comprise a subsystem for validating a routing number associated with said check. In another embodiment, error processing 506 may comprise a subsystem for determining if said check was previously deposited. For example, if a list of deposited checks is maintained for the depositing customer, then the check number can be compared against such a list. Comparing to a list of all deposits for an entire financial institution, or even multiple financial institutions, is also possible. However, if

duplicate checking is to be done in real time, i.e. while the customer waits for confirmation, then it is desirable to streamline the process for example by only determining duplicates from a predetermined set of most likely relevant data.

**[0060]** Error processing 506 may further comprise a subsystem for comparing an amount of a check as provided by a customer to an amount determined by performing OCR on said image of said front side of said check. If the numbers do not match, the server can indicate an error and as a result, not proceed with the deposit transaction. Similarly, such an error may result from any error checking operation performed herein. Alternatively, certain errors can be designated as not meriting aborting a deposit, and may simply result in flagging the transaction for later scrutiny. Such a "transaction flagging" approach is particularly applicable to situations in which a duplicate check deposit is identified. Because duplicate determinations are prone to false positives, simply flagging, rather than aborting, a transaction may be preferable when a duplicate is possible.

**[0061]** OCR may also be applied to an image of a back side of the check. For example, in one embodiment, an OCR analysis of a MICR line location on an alleged image of a back of a check can be made. Backs of checks should not have MICR lines. Therefore, if such OCR process identifies MICR information, it can be determined that the image of the back of a check is improper. Thus, one criterion in analyzing an image of a back of a check may be the absence of a MICR line.

**[0062]** Server 500 may further comprise an endorsement determination subsystem 505. Such a subsystem 505 may determine if a signature appears on said back side of said check. While endorsement of a check is not legally required for depositing a check into the payee's bank account, there are a variety of reasons banks typically require endorsement by the payee. Endorsement determination 505 may comprise simply checking for some indication of handwriting in the endorsement area of the image of the back side of a check. Other embodiments may go further by attempting to recognize an authorized signature of the payee and/or customer.

**[0063]** Server 500 may further comprise temporary image storage 501 for storing images while performing operations such as OCR and error processing. Images stored in temporary storage may be in the original format, i.e. as received from computer 530, or in some other format, such as the bi-tonal TIFF format required by Check 21 legislation, or both. In fact, it can be useful to

include in some embodiments a mechanism for converting images from such first format to a second format such as bi-tonal TIFF, and to place such images in a log file.

**[0064]** Server 500 may further comprise a subsystem for initiating a deposit of a check into the specified account 513. Deposit initiation may comprise a wide variety of possible actions, depending on how such operations are initiated in particular bank systems. For example, a deposit might be initiated by "soft posting" or provisionally posting a credit to the customer's account. It might be initiated by forwarding an image to the payor's bank or Federal Reserve. It might be initiated by placing data in a batch file for processing all the deposits for the day. Deposit initiation is any action that sets in motion a chain of automated events resulting in a crediting of the customer's account.

**[0065]** Referring now to computer 530, a number of novel aspects also pertain to computer 530 as well as the interaction between the computer 530 and the server 500. As described above, a software component 532 may be executed by computer 530 in connection with carrying out the invention. One embodiment of the software component is illustrated in Fig. 6. As illustrated in Figs. 5 and 6, an exemplary component 532 may execute in conjunction with a virtual machine framework 533 as described above. This gives the advantage of developing a single component that works predictably on most customer computers, which may be configured somewhat differently, for example having different hardware 537 and operating systems 535.

**[0066]** A customer may connect to server 500 using a browser application 543 that executes on the computer 530. The customer may view instructions in the browser, for example instructing the customer to log in, instructing the customer to place a check on or in front of an image capture device, instructing the customer to edit an image, and so forth. The browser may run in conjunction with the software component 532, or the software component may run in a separate process and have its own user interface.

**[0067]** Image capture device control software and/or image edit software 531 may also execute on the computer 530. This software 531 interfaces with the image capture device 540, and may serve functions such as initiating image capture, managing image retrieval, facilitating image editing, and so forth. In one embodiment, software 531 may provide an interface so that it can be controlled to some extent by software component 532. If software component is in turn controlled by image servlet 509, the management of the image capture and retrieval process can be performed from the server 500. Alternatively, at any step along the way, the customer can be

instructed to perform certain functions using software 531 or component 432, if such functions are better performed, or more conveniently performed by a human.

**[0068]** Storage location 536 provides a location that can be temporarily used by the component 532 to store images and/or a log file that may be generated to persist useful data regarding a deposit transaction.

**[0069]** Operations that are performed by the system comprising computer 530, browser 534, component 532, image capture software 531, image capture device 540, and customer (not shown) can generally comprise providing customer credentials, identifying an account, identifying an amount of a deposit, capturing an image of a front side of a check according to the criteria required by the bank via component 532, cropping and rotating the image of a front side of a check according to the criteria required by the bank via component 532, endorsing and capturing an image of a back side of a check according to the criteria required by the bank via component 532, and delivering such images to server 500.

**[0070]** Fig. 6 illustrates a system for facilitating deposit of a check from a customer-controlled general purpose computer, with special focus on aspects of the software component 600. As illustrated, an exemplary software component 600 may comprise a variety of functional subsystems 601-609. The component may in one-embodiment be server-activated in that it executes various aspects of its functionality after receiving instructions to do so from a server 640. As such, component 600 may have a server interface 601 for receiving commands from the server 640.

**[0071]** As mentioned above, the component 600 may also be designed to interoperate with a virtual machine framework 620, for the purpose of realizing certain benefits as understood in the art to accompany such technologies, such as facilitating widespread distribution and better guarantees of acceptable operation. The framework 620 in turn operates on the platform of the customer's general purpose computer 630.

**[0072]** For example, the component 600 may provide a subsystem 602 for instructing a customer, for example via a user interface visible on a display coupled to a customer-controlled general purpose computer 630, in utilizing an image capture device to generate an electronic image of a front side of a check, such that said electronic image of a front side of a check meets at least one first criterion. In one embodiment, the customer may be instructed for example to place the check face-down in a top left corner of a scanner bed. The customer may further be

instructed to place the check in a certain orientation. An image thus produced will meet criteria such as being upright and at a "right angle" with respect to a rectangular image format.

**[0073]** The component 600 may also comprise a subsystem 604 such as image capture device interface for receiving an image of a front side of a check from the image capture device. The image may be immediately uploaded to the server 640, or may be temporarily persisted using image storage function 605. A reason for such temporary persisting is to allow for certain customer modifications, and to allow for generation of further images such as an image of a back side of the check. Although not necessary to the invention, it can be expedient to deliver all images to the server 640 at once.

**[0074]** Once an image is generated, subsystem 602 may further instruct the customer to process the electronic image of a front side of a check. Processing the image may comprise simply approving the image if said image of a front side of a check meets said at least one first criterion. This aspect may also be provided by another subsystem such as 606. For example, the image may be presented to the customer and the customer may be asked if the image is right side up and legible. If so, the customer may approve the image, for example by selecting an appropriate approval button in the user interface.

**[0075]** Components 602, 604, 605, and 606 may operate similarly with regard to capturing an image of a back side of a check. The customer may be instructed by 602 to capture an electronic image of a back side of a check meets at least one third criterion, which may in one embodiment be a same criterion as the first criterion, e.g. image size, image legibility, image orientation, and so forth. The image may be received by the component via 604. The customer may also be asked to approve by 602.

**[0076]** Further to being instructed by 602 and/or 606 to process an image, a customer may be instructed to modify said electronic image of a front side of a check and/or a back side of the check, such that said electronic image of a front side of a check meets at least one second criterion. For example, an image as scanned may be presented to the customer, and the customer may be asked to select a bottom right corner of the check in the image. Assuming the top left corner of the check is also in the top left corner of the image, the customer selection of the bottom right corner of the check can be used to crop out any and all of the image that goes beyond the boundaries of the check.

**[0077]** Component 600 may also comprise a subsystem for generating a log file 607

comprising data associated with said deposit. Exemplary data that may be collected in the log file is an identification of the operating system used by the customer's general purpose computer, an identification of a browser used by the customer's general purpose computer, an identification of an image capture device make and model, an identification of a version of the JAVA virtual machine software, or, if .NET technologies are used, the version of the .NET Framework, and an identification of transaction data, for example a transaction ID, account number, customer name, amount of deposit, check routing number, check number, check account number, and so forth.

**[0078]** Component 600 may also comprise a subsystem for data delivery 608 and cleanup 609. The delivery subsystem 608 may initiate a delivery of images and other data, such as the log file, to the server. It may utilize functionality provided in the server interface 601 if desirable. The cleanup subsystem 609 may delete certain data from the customer's computer 630. For example, any image files that may have been created for temporary purposes may be deleted. Thus cleanup subsystem 609 may remove an electronic image of a front side of a check from a memory associated with said customer-controlled general purpose computer 630.

**[0079]** It should be appreciated that the various illustrations and examples provided herein also disclose corresponding methods and computer readable media bearing instructions for carrying out such methods. Furthermore, in addition to the specific implementations explicitly set forth herein, other aspects and implementations will be apparent to those skilled in the art from consideration of the specification disclosed herein. It is intended that the specification and illustrated implementations be considered as examples only, with a true scope and spirit of the following claims.

## AMENDMENTS TO THE SPECIFICATION

On page 1, please insert the following section:

### CROSS-REFERENCE TO RELATED APPLICATIONS

**[0001]** This application is a continuation of U.S. Patent Application No. 16/165,622, filed on October 19, 2018, pending, which is a continuation of U.S. Patent Application No. 16/025,679, filed on July 2, 2018, pending, which is a continuation of both U.S. Patent Application No. 14/225,090, filed March 25, 2014, pending, and U.S. Patent Application No. 15/663,284, filed on July 28, 2017 (issued as U.S. Patent No. 10,013,605 on July 3, 2018), where U.S. Patent Application No. 15/663,284 is a continuation of U.S. Patent Application No. 14/225,090, filed on March 25, 2014, pending, and where U.S. Patent Application No. 14/225,090 is a continuation of U.S. Patent Application No. 11/590,974, filed October 31, 2006 (issued as U.S. Patent No. 8,708,227 on April 29, 2014), the entirety of all of which are hereby incorporated by reference herein.

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:

Date: July 10, 2019 Name: Patricia Chiovari Signature: /Patricia Chiovari/



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appln. of: **Charles Lee Oakes et al.**

For: **DIGITAL CAMERA PROCESSING SYSTEM**

Attorney Docket No.: **US-0152.11 | 14538-668**

**UTILITY PATENT APPLICATION TRANSMITTAL**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

1. TRANSMITTED HERewith: New application under 37 CFR §1.53(b), which is a:

- ☒ Continuation,
- ☐ Divisional, or
- ☐ Continuation-in-Part (CIP)

Under 37 CFR §1.53(b) of prior application no. 16/165,622.

Prior application information: Examiner: Liu, I Jung Art Unit: 3697

- ☐ Maintenance of copendency of prior application: A request for extension of time and the appropriate fee have been filed in the pending prior application (or are being filed in the prior application concurrently herewith) to extend the period for response until \_\_\_\_.
- ☐ Certified copy of priority document(s) has been filed in prior application no. \_\_\_\_.

For Continuation or Divisional Applications only: The entire disclosure of the prior application, from which an oath or declaration is supplied as indicated below, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.

2. ATTACHMENTS: The following application elements and other papers are attached:

- ☒ Application Data Sheet. See 37 CFR § 1.76.
- ☒ Title page
- ☒ Specification, including claims and Abstract (25 pages)
- ☒ Drawings (6 sheet(s))
- ☐ Appendices: \_\_\_\_
- ☒ Declaration:
  - ☐ newly-executed (original or copy)
  - ☒ copy from a prior application that was filed on or after September 16, 2012 (37 CFR §1.63(d))
- ☐ English Translation Document:
  - ☐ is attached or ☐ has been filed in prior application no. \_\_\_\_.
- ☒ Preliminary Amendment (Note: If a priority application was filed before March 16, 2013, consider whether this Preliminary Amendment should be filed after the application filing. Related application data required under 37 CFR §1.78, if any, appears in the Amendments to the Specification section of the Preliminary Amendment, including incorporations by reference.)
- ☐ Petition to Suspend Prosecution for the Time Necessary to File an Amendment (New Application Filed Concurrently).
- ☒ Power of Attorney (1 pages; ☐ by inventor ☒ by Assignee).
  - ☒ A new power has been executed and is attached.
  - ☐ The power appears in the original papers in the prior application.
  - ☐ The power doesn't appear in the original papers in the prior application, but was filed on \_\_\_\_.
  - ☐ The power of attorney in the prior application is to: Customer No. \_\_\_\_ or to \_\_\_\_ (Reg. No. \_\_\_\_).



- ☒ Assignment to: United Services Automobile Association (USAA):  
☒ was previously recorded on October 23, 2018 at Reel 047275, Frame 0428.  
☒ Information Disclosure Statement (43 pages) and copies of references cited, if required.  
☒ Nonpublication Request under 35 USC §122(b)(2)(B)(i).  
☒ Other: Statement Under 37 CFR 3.73(c).

## 3. SMALL/MICRO ENTITY STATUS:

- ☐ Applicant is small entity (per 37 CFR §1.27).  
☐ Applicant is micro entity (per 37 CFR §1.27).  
☐ A small/micro entity statement was filed in prior application no. \_\_\_\_\_ and such status is still proper and desired.  
☐ Small/micro entity status is no longer desired.

## 4. FEE CALCULATION (AFTER ENTRY OF ANY PRELIMINARY AMENDMENT(S) IN ITEM #2 ABOVE):

| Claims as Filed                                           | Col. 1    | Col. 2    | Fee                                  |                         | Small Entity Fee                     |                         | Micro Entity Fee                     |                         |
|-----------------------------------------------------------|-----------|-----------|--------------------------------------|-------------------------|--------------------------------------|-------------------------|--------------------------------------|-------------------------|
| For                                                       | No. Filed | No. Extra | Rate                                 | Fee                     | Rate                                 | Fee                     | Rate                                 | Fee                     |
| Basic Filing Fee                                          |           |           | +\$300=                              | \$                      | +\$75=                               | \$                      | +\$75=                               | \$                      |
| Total Claims                                              | 24-20     |           | x\$100=                              | \$                      | x\$ 50=                              | \$                      | x\$ 25=                              | \$                      |
| Independent Claims                                        | 3-3       |           | x\$460=                              | \$                      | x\$230=                              | \$                      | x\$115=                              | \$                      |
| Multiple Dependent Claims Present                         |           |           | +\$820=                              | \$                      | +\$410=                              | \$                      | +\$205=                              | \$                      |
| Utility Application Size Fee<br>(see MPEP 607 Filing Fee) |           |           | No. of pages<br>- 100 = *<br>x\$400= | x .75 =<br>/ 50 =<br>\$ | No. of pages<br>- 100 = *<br>x\$200= | x .75 =<br>/ 50 =<br>\$ | No. of pages<br>- 100 = *<br>x\$100= | x .75 =<br>/ 50 =<br>\$ |
| Search Fee                                                |           |           | +\$660=                              | \$                      | +\$330=                              | \$                      | +\$165=                              | \$                      |
| Examination Fee                                           |           |           | +\$760=                              | \$                      | +\$380=                              | \$                      | +\$190=                              | \$                      |
| Surcharge: Late Oath/Declaration (37 CFR 1.16(f))         |           |           | +\$160=                              | \$                      | +\$80=                               | \$                      | +\$40=                               | \$                      |
| *If the difference is less than zero, enter "0" in col.2. |           |           | Total                                | \$                      | Total                                | \$                      | Total                                | \$                      |

## 5. FEE PAYMENT:

- ☐ Please charge Deposit Account No. 50-4184 in the amount of \$\_\_\_\_\_.  
☐ Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).  
**WARNING:** Information on this form may become public. **Credit card information should not be included on this form.**  
☐ The Director is hereby authorized to charge payment of the following fees or credit any overpayment to Deposit Account No. 50-4184.  
☐ Any additional filing fees required under 37 CFR § 1.16.  
☐ Any patent application processing fees under 37 CFR §1.17.  
☐ The Director is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 50-4184.  
☐ Any filing fees under 37 CFR § 1.16 for presentation of extra claims.  
☐ Any patent application processing fees under 37 CFR § 1.17.  
☐ The issue fee set in 37 CFR § 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR § 1.311(b).

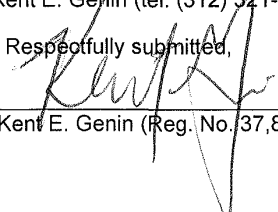
## 6. CORRESPONDENCE ADDRESS: Please recognize the correspondence address for this application as the address associated with the following Customer Number:

**Customer No.: 16530 - USAA/BGL**

## 7. PLEASE DIRECT all telephonic communications to: Kent E. Genin (tel: (312) 321-4200).

July 10, 2019  
 Date

Respectfully submitted,

  
 Kent E. Genin (Reg. No. 37,834)
