PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4334710

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| BENOIT VANDAME | 09/30/2016 |
| MATHILDE BROSSARD | 10/11/2016 |
| VALTER DRAZIC | 10/04/2016 |

RECEIVING PARTY DATA

| Name: | THOMSON LICENSING |
|-----------------|----------------------|
| Street Address: | 1-5 RUE JEANNE D'ARC |
| City: | ISSY-LES-MOULINEAUX |
| State/Country: | FRANCE |
| Postal Code: | 92130 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15236470 |

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: pat.verlangieri@technicolor.com

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Address Line 2: 3RD FLOOR

Address Line 4: PRINCETON, NEW JERSEY 08540

| ATTORNEY DOCKET NUMBER: PF150210-US-NP | | |
|--|--|--|
| NAME OF SUBMITTER: | PATRICIA A. VERLANGIERI | |
| SIGNATURE: | /Patricia A. Verlangieri, Reg.No. 42201/ | |
| DATE SIGNED: | 03/24/2017 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 4

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PATENT REEL: 041717 FRAME: 0945

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PATENT REEL: 041717 FRAME: 0946 Customer No. 24498

Address

DECLARATION

Docket No.PF150210

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

| | n of which was filed on | | LED COLOR FILTE as Application | Secial No | | and was |
|--|--|---|---|-----------------------------|--|--------------------------|
| | | August 14, 2016 | Ď. | 18 | /236470 | amended on |
| | | , or, if not iden | tified here by filing date to be made by me. | e and serial numb | er, is attached h | ereto. |
| The above | identified application w | as made or authorized | to be made by me. | | | |
| | | e contents of the above | ve identified specification | on, including the d | :laims, as ameno | led by any |
| amendment refe | | : Information which is n | naterial to patentability | rae definad in 27 | CED 1 56 Inches | ding for |
| Packnowiec | ige the duty to disclose next applications, mater | i al information which h | ecame available betwee | on the filing date | of the prior and | lication |
| and the national | or PCT international fili | ing date of the continu | ation-in-part application | 7. | ., ., ., ., ., ., ., ., ., ., ., ., ., . | |
| Lhereby de | clare that all statement | ts made herein of my o | wn knowledge are true | and that all state | ments made on | |
| information and | belief are believed to b | e true; and further tha | t these statements we | re made with the | knowledge that | willful |
| | s and the like so made : | are punishable by fine o | or imprisonment of not | more than five (5 |) years, or both | i, under 18 |
| USC 1001. | ************************************** | | ዱ እ. የ. የሚያያያያ የምላ ማግኝ ምሳሌ ዓ. የ | 2010/12/20 2 20070/10/20/20 | o marmatr | |
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| For valua | able consideration recei | ved, I hereby sell, assig | in and transfer to Thom | son Licensing, a | corporation duly | organized |
| and existing and | er the laws of the count | try of France, its succes | ssors, and assigns my er | ntire right, title ar | id interest, for al | ll countries |
| in and to said in | ventions, and all the rig | hts and privileges unde | er any and all Letters Pa | itent that may be | granted therefo | or, and any |
| divisions, contin | uations, reissues and ex | ctensions thereof. | said corporation but at | ite ovnence sinn | all nanare take | all richtful |
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| patents or other | r forms of protection fo | or said inventions in an | y and all countries and | for vesting title t | hereto in said co | orporation, |
| its successors, a | issians or nominees. | | | | | |
| l agree ti | hat I will communicate t | o said corporation or it | s representatives any fa | acts known to me | respecting said | inventions |
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| for any applicati | on for patent or other f | orm of protection for s | said inventions filed by i | t or them, the be | nefit of the right | of priority |
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| menceroran be s | upstituted for it, and it |) invoke and claim suci | h right of priority withou | at former written | or brar additions | augittion |
| | consent that a copy of | of this assignment shall | ll be deemed a full lega | al and formal equ | ivalent of any a | ssignment, |
| consent to file c | or like document which i | may be required in any | country for any purpos | e and more parti | cularly in proof o | of the right |
| of the said corp | oration or its successor | rs, assigns or nominees | s to apply for patent or | other proper pro | tection for said i | inventions, |
| and to claim the | aforesaid benefits of the | ie right of priority prov | ided by the internation | al Convention for | the Protection o | ir industriai |
| Property, as am | ended, or by any conve | rition which may neact | eforth be substituted fo ssigns, legal representat | Ji IL. tivas and nomina | es that to the l | hest of my |
| knowledge the r | ight, title and interest l | nerein conveved by me | are free and clear of ar | ny encumbrance. | and that I have f | full right to |
| | e as herein expressed. | | | • | | |
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| Inventor | | | | | 1.1.200000 | |
| Name | VANDAME Beno | t | 10.10.0 10.0 10.0 10.0 10.0 10.0 10.0 1 | ggf.ind | ****** | |
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PATENT REEL: 041717 FRAME: 0947 Customer No. 24498

DECLARATION

Docket No.PF150210

1^{et} Witness

2nd Witness

KERBIRIOU Paul

(Type or Print)

BABON PREDERIZ

(Type or Print)

(Signature in Full – No Initials)

(Signature in Full - No initials)

2nd Witness

OT Artiska (Type or Print)

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

| the specification (| of which was filed on August 14, 2016 | as Applic | ation Serial No. 15/236470 | and was amended on |
|--|--|---|--|---|
| | | There by filing date | e and serial number, is attached hereto. | |
| I have revie | identified application was made or authorized to be wed and understand the contents of the above iden | | , including the claims, as amended by any | amendment |
| referred to above | ; Ige the duty to disclose information which is materia | l to nateotability a | defined in 97 CFR 1.56 including for cont | inuation-in- |
| part applications, international filing | material information which became available between date of the continuation-in-part application. | en the filing date | of the prior application and the national or F | PCT |
| are believed to be | clare that all statements made herein of my own kno e true; and further that these statements were made y tine or imprisonment of not more than tive (5) year | with the knowledg | ge that willful false statements and the like : | |
| AS | SIGNMENT AND AGREEMENT IN A | N APPLICAT | ION FOR LETTERS PATENT | |
| existing under the inventions, and a | able consideration received. I hereby sell, assign e laws of the country of France, its successors, and if the rights and privileges under any and all Letters | assigns my entire | right, title and interest, for all countries in | and to said |
| make all rightful o | ansions thereof. hat, when requested, I will, without charge to said declarations and do all acts which may be necessar on for said inventions in any and all countries and | y, desirable or cor | rvenient for securing and maintaining pater | nts or other |
| nominees. I agree to requested by sai | nat I will communicate to said corporation or its reprid corporation and at its expense will testify in an | esentatives any fa y legal proceedin | cts known to me respecting said inventions gs, and generally do everything possible | and when to aid said |
| and all countries. | | • | | |
| | ze and empower-sald corporation, its successors, d inventions in its or their own name, or in my/our n | | | |
| for patent or other | er form of protection for said inventions filed by it of | or them, the bene | fit of the right of priority provided by the Ir | nternational |
| | ne Protection of Industrial Property, as amended, or such right of priority without further written or oral a | | | or it, and to |
| I hereby | consent that a copy of this assignment shall be dee which may be required in any country for any purp | med a full legal ar | nd formal equivalent of any assignment, cor | |
| its successors, a | ssigns or nominees to apply for patent or other pro | per protection for | said inventions, and to claim the aforesaid | benefits of |
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| Lcovena | nt with Thomson Licensing, its successors, assigns | | | |
| the right, title and herein expressed | d interest herein conveyed by me are free and clea t | r of any encombra | ance, and that I have full right to convey the | ne same as |
| Tractant of the conse | ,, | | | |
| | 22 | | | |
| Signed at | BORDETUX | Date | <u>41 oct 2046</u> | |
| | | | | |
| S | | | w. | |
| Inventor Name | BROSSARD Mathilde | | West Comment | |
| i ami cha | (Type or Print) | | / (Signature in Full - No Init | ials) |
| Post Office | | | | |
| Address | 9 rue Lafontaine | <u>33800</u> | BORDERUX | *************************************** |
| | | | , <u>t</u> | |
| 1 st Witness | Riviers David | | | and a second second second |
| | (Type or Print) | | (Signaturè în Full – No Init | ials) |

PATENT REEL: 041717 FRAME: 0949

(Signature in Full - No Initials)

Customer No. 24498

DECLARATION

Docket No.PF150210

As a below named inventor, I hereby declare that.

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

| PLENOPTIC CAMERA | COMPRISING A | SHUFFLED | COLOR FILTER | ARRAY |
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|------------------|--------------|----------|--------------|-------|

the specification of which was filed on as Application Serial No. and was August 14, 2016 15/236470 amended on or, if not identified here by filing date and serial number, is attached hereto.

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

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-inpart applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001,

assignment and agreement in an application for letters patent

For valuable consideration received, I hereby self, assign and transfer to Thomson Licensing, a corporation duty organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful paths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

| Signed at | Carpon-Sévigne | Date 4-oct. 2016 |
|-------------------------|---------------------------------|---|
| Inventor Name | DRAZIC Valter(Type or Print) | Voller JRAU < (Signature in Full - No Initiats) |
| Post Office Address | | |
| 1 st Witness | FREDERIC BARSUM (Type or Print) | (Signature in Full – No Initials) |
| 2 nd Witness | OCIVIER BURGUER (Type or Print) | BURETLE (Signature in Full – No Initials) |

PATENT REEL: 041717 FRAME: 0950

RECORDED: 03/24/2017