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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/281,190	06/02/2020	10674340	REGIM 3.9-244 CON CON	1000

530 7590 05/13/2020
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
20 Commerce Drive
Cranford, NJ 07016

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

SES-imagotag, Incorporated, Nanterre, FRANCE;
Philippe Bottine, Boulogne-Billancourt, FRANCE;
François Robin, Paris, FRANCE;

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

PART B—FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

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

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

LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP
20 Commerce Dr.
Cranford, New Jersey 07016

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

Certificate of Mailing or Transmission

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

David J. Kohn	(Typed or printed name)
/David J. Kohn/	(Signature)
April 28, 2020	(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON	1000

TITLE OF INVENTION: System And Method For Communicating Spatially Organized Information

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500.00			\$500.00	04/30/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
T. H. Nguyen	2647	455-041200

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363) ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.	1. Lerner, David, Littenberg, Krumholz & Mentlik, LLP 2. 3.
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE or COUNTRY)

SES-imagotag, Incorporated

France

Please check the appropriate assignee category or categories (will not be printed on the patent):

☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 12-1095

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

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

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

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

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

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

Authorized Signature

/David J. Kohn/

Date April 28, 2020

Typed or printed name

David J. Kohn

Registration No.

68,909

Electronic Patent Application Fee Transmittal

Application Number:	16281190			
Filing Date:	21-Feb-2019			
Title of Invention:	SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION			
First Named Inventor/Applicant Name:	Philippe Bottine			
Filer:	Stephen M. Lund/Kathleen Reynolds			
Attorney Docket Number:	REGIM 3.9-244 CON CON			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	39284508
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	Stephen M. Lund/Kathleen Reynolds
Filer Authorized By:	Stephen M. Lund
Attorney Docket Number:	REGIM 3.9-244 CON CON
Receipt Date:	28-APR-2020
Filing Date:	21-FEB-2019
Time Stamp:	11:35:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	E20204RB35472325
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	38517	no	1
			a5a32614784a68d2b4cd3a7ce85f5c58781304bd		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30417	no	2
			3584d49d7f89ee4163108f4606a25dfb34f6ad		
Warnings:					
Information:					
Total Files Size (in bytes):			68934		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

530 7590 01/31/2020
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
20 Commerce Drive
Cranford, NJ 07016

EXAMINER

NGUYEN, TUAN HOANG

ART UNIT

PAPER NUMBER

2647

DATE MAILED: 01/31/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON	1000

TITLE OF INVENTION: SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	04/30/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

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

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

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

530 7590 01/31/2020
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
20 Commerce Drive
Cranford, NJ 07016

Certificate of Mailing or Transmission

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

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON	1000

TITLE OF INVENTION: SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	04/30/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, TUAN HOANG	2647	455-041200

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON	1000
530	7590	01/31/2020	EXAMINER	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 20 Commerce Drive Cranford, NJ 07016			NGUYEN, TUAN HOANG	
			ART UNIT	PAPER NUMBER
			2647	

DATE MAILED: 01/31/2020

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a law enforcement agency, if the USPTO becomes aware of a violation or potential violation of Ex. 1002, page 10

Notice of Allowability	Application No. 16/281,190	Applicant(s) Bottine et al.	
	Examiner TUAN H NGUYEN	Art Unit 2647	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to 12/02/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-9. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/TUAN H NGUYEN/
Primary Examiner, Art Unit 2647

Notice of Pre-AIA or AIA Status

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

DETAILED ACTION

1. The applicant's remarks, filed on 12/02/2019, have been carefully reviewed with updated search. Claims 1-9 are allowed over the prior art record.

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

Conclusion

2. Any response to this action should be mailed to:

Mail Stop_____ (Explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:

Customer Service Window

Randolph Building
401 Dulany Street
Alexandria, VA 22313

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571) 272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pan Yuwen can be reached on (571) 272-7855. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/TUAN H NGUYEN/
Primary Examiner, Art Unit 2647

Search Notes 	Application/Control No. 16/281,190	Applicant(s)/Patent Under Reexamination Bottine et al.
	Examiner TUAN H NGUYEN	Art Unit 2647

CPC - Searched*		
Symbol	Date	Examiner
H04W4/80,H04W4/35.	07/30/2019	T.N

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W4/185,H04W8/08.	07/30/2019	T.N

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
All searches are on EAST data base.	07/30/2019	T.N
Inventor name search.	07/30/2019	T.N
Updated searches above.	01/23/2020	T.N

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	See search above.	01/23/2020	T.N

	/TUAN H NGUYEN/ Primary Examiner, Art Unit 2647
--	--

Issue Classification 	Application/Control No. 16/281,190	Applicant(s)/Patent Under Reexamination Bottine et al.
	Examiner TUAN H NGUYEN	Art Unit 2647

CPC						
Symbol					Type	Version
H04W	/	4	/	80	F	2018-02-01
H04W	/	4	/	029	I	2018-02-01
G06Q	/	30	/	06	I	2013-01-01
G06F	/	16	/	9537	I	2019-01-01
G06Q	/	30	/	0267	I	2013-01-01
H04W	/	4	/	35	I	2018-02-01
H04W	/	4	/	185	I	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 9	
/TUAN H NGUYEN/ Primary Examiner, Art Unit 2647 (Primary Examiner) _____ (Date) _____		23 January 2020 O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 16/281,190	Applicant(s)/Patent Under Reexamination Bottine et al.
	Examiner TUAN H NGUYEN	Art Unit 2647

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W	/	4	/ 80
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)		9	
(Date)			
/TUAN H NGUYEN/		23 January 2020	
Primary Examiner, Art Unit 2647		O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)		1	1
(Date)			

Issue Classification 	Application/Control No. 16/281,190	Applicant(s)/Patent Under Reexamination Bottine et al.
	Examiner TUAN H NGUYEN	Art Unit 2647

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1														
2	2														
3	3														
4	4														
5	5														
6	6														
8	7														
9	8														
7	9														

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 9	
/TUAN H NGUYEN/ Primary Examiner, Art Unit 2647 (Primary Examiner) _____ (Date) _____		23 January 2020 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 1

Bibliographic Data

Application No: 16/281,190

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☒ Met After Allowance

Verified and Acknowledged: /TUAN H NGUYEN/

T.H.N

Examiner's Signature

Initials

Title:

System And Method For Communicating Spatially Organized Information

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/21/2019	455	2647	
RULE			

APPLICANTS

SES-imagotag, Incorporated, Nanterre, FRANCE

INVENTORS

Philippe Bottine Boulogne-Billancourt, FRANCE

François Robin Paris, FRANCE

CONTINUING DATA

This application is a CON of 13861314 04/11/2013ABN

13861314 is a CON of PCT/FR2012/050791 04/11/2012

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/07/2019

** SMALL ENTITY **

STATE OR COUNTRY

FRANCE

ADDRESS

FILING FEE RECEIVED

\$785

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	Philippe near3 Bottine.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:19
L2	35	Francois near3 Robin.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:19
L3	1	(central near3 server\$3) same (access\$3 near3 planogram)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:25
L4	1176157	identif\$6 near3 (radio near3 frequenc\$3) RF	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:28
L5	118204	(central near3 server\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:29
L6	27398	4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:29
L7	3284	((plural\$5 multipl\$3) near3 (location\$1 poposition\$1)) same ((determin\$3 predetermin\$3 pre-determin\$3) near3 area)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:30
L8	68	6 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:31
L10	372	(communicat\$3 near3 (range limit\$1)) with ((twenty "20") near3 (centimeter\$1 cm))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:50
L11	40757	((radio near3 frequenc\$3) RF) same (communicat\$3 near3 range\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:51

L12	112	10 and L11	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:51
L13	54122	(H04W4/80 OR H04W4/35 OR H04W4/185 OR H04W8/08 OR G06Q30/0633 OR G06Q30/0241 OR G06Q20/3224 OR G06Q30/0268 OR G06Q30/0639).CPC.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:52
L14	39	12 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 17:52
L15	324951	(determin\$3 verif\$6 calculat\$3) near3 (location\$1 position\$1) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 18:31
L16	21	12 and L15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 18:31
L17	1316	7 and 15	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 18:36
L18	55	6 and 17	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 18:37
L19	119	transmi\$6 same (spatial\$3 near3 local\$6 near3 (information data))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:03
L20	2380121	(location\$1 position\$1) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:04
L21	35	19 and 20	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:05
L22	2725	spatial\$3 near3 local\$6 near3 (information data)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:06
L23	720	20 and 22	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:07

L24	37	13 and 23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2020/01/23 19:07
S1	24474	communicat\$3 near3 local\$6 near3 (data information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:50
S2	38	(central near3 server\$3) same (identif\$6 near3 ((radio near3 frequenc\$3) RF))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:52
S3	18931	(central near3 server\$3) same identif\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:53
S4	1483064	(radio near3 frequenc\$3) RF	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:53
S5	7401	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
S6	248	S1 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
S7	411120	(plural\$5 multipl\$3) near3 (location\$1 popsition\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
S8	75	S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:55
S9	460705	(receiv\$3 near4 identif\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:00
S10	38079	((radio near3 frequenc\$3) RF) same (communicat\$3 near3 range\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:02
S11	124	(communicat\$3 near3 range\$1) same ((less small\$3 below) near3 (twenty "20") near3 (centimeter\$1 cm))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:04

S12	48	S10 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:05
S13	20	S9 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:05
S14	308042	(determin\$3 verif\$6 calculat\$3) near3 (location\$1 position\$1) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:08
S15	58	S6 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
S16	5	Philippe near3 Bottine.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
S17	1	S15 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
S18	33	Francois near3 Robin.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
S19	1	S15 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
S20	515997	(determin\$3 predetermin\$3 pre-determin\$3) near3 area	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:05
S21	42	S6 and S20	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:05
S22	1096	((plural\$5 multipl\$3) near3 (location\$1 poposition\$1)) same ((vertical horizontal) near3 position\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:07
S23	1708208	(activat\$3 enabl\$3) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:08

S24	201	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:09
S25	61	S4 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:11
S26	51	S14 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:12
S27	5	S10 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:12
S28	4443	((radio near3 frequenc\$3) RF) near3 peripheral\$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:15
S29	644	S7 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
S30	9718	S1 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
S31	4	S29 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
S32	8716	S9 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:17
S33	110	S29 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:17
S34	110	S14 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:19
S35	32282	peripheral\$1 same (within near3 range\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:25

S36	3872	S23 and S35	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:26
S37	431	S14 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:26
S38	17865	sal\$3 near3 area	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:29
S39	37739	display\$3 near3 updat\$3 near3 (data information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:30
S40	163	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:31
S41	36	S7 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:32
S42	88	S7 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:32
S43	39	S42 AND ((H04W4/80 OR H04W4/35 OR H04W4/185 OR H04W8/08 OR G06Q30/0633 OR G06Q30/0241 OR G06Q20/3224 OR G06Q30/0268 OR G06Q30/0639).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:51
S44	49818	(H04W4/80 OR H04W4/35 OR H04W4/185 OR H04W8/08 OR G06Q30/0633 OR G06Q30/0241 OR G06Q20/3224 OR G06Q30/0268 OR G06Q30/0639).CPC.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:52
S45	22	S6 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:52

1/ 23/ 2020 7:25:06 PM
C:\ Users\ tnguyen90\ Documents\ EAST\ Workspaces\ 16281190.wsp

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) REGIM 3.9-244 CON CON																															
Application Number 16/281,190-Conf. #1000		Filed February 21, 2019																															
For System And Method For Communicating Spatially Organized Information																																	
Art Unit 2647		Examiner T. H. Nguyen																															
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 15%; text-align: center;">Fee</th> <th style="width: 15%; text-align: center;">Small Entity Fee</th> <th style="width: 15%; text-align: center;">Micro Entity Fee</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>☒ One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: center;">\$ 100.00</td> </tr> <tr> <td>☐ Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☐ Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☐ Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☐ Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: center;">\$ _____</td> </tr> </tbody> </table> ☒ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 12-1095 . ☒ Payment made via EFS-Web. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. I am the ☐ applicant. ☒ attorney or agent of record. Registration number 68,909 . ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____ . _____ /David J. Kohn/ Signature _____ David J. Kohn Typed or printed name _____ December 2, 2019 Date _____ (908) 518-6338 Telephone Number NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.					Fee	Small Entity Fee	Micro Entity Fee		☒ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ 100.00	☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____	☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____	☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____
	Fee	Small Entity Fee	Micro Entity Fee																														
☒ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ 100.00																													
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____																													
☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____																													
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____																													
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____																													

☐ * Total of 1 forms are submitted.

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: December 2, 2019

Electronic Signature for David J. Kohn: /David J. Kohn/

Electronic Patent Application Fee Transmittal

Application Number:	16281190			
Filing Date:	21-Feb-2019			
Title of Invention:	System And Method For Communicating Spatially Organized Information			
First Named Inventor/Applicant Name:	Philippe Bottine			
Filer:	Stephen M. Lund/Cindy Corb			
Attorney Docket Number:	REGIM 3.9-244 CON CON			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	2251	1	100	100
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt

EFS ID:	37896833
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	Stephen M. Lund/Cindy Corb
Filer Authorized By:	Stephen M. Lund
Attorney Docket Number:	REGIM 3.9-244 CON CON
Receipt Date:	02-DEC-2019
Filing Date:	21-FEB-2019
Time Stamp:	13:31:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 100
RAM confirmation Number	E2019B2D31289604
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Arguments/Remarks Made in an Amendment	Amendment.pdf	68006	no	7
			7d1db7bf53e391c7792ac318d011bf0aae8d4e2c		
Warnings:					
Information:					
2	Extension of Time	One_Month_Request_for_Extension_of_Time_Under_37_CFR_1136a.pdf	24450	no	1
			785b0d5b30f106125943f938f7d000e4bc7ef0c1		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30792	no	2
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Warnings:					
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Total Files Size (in bytes):			123248		
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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: December 2, 2019

Electronic Signature for David J. Kohn: / David J. Kohn /

Docket No. REGIM 3.9-244 CON CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2647

For: System And Method For Communicating
Spatially Organized Information

Examiner: T. H. Nguyen

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

RESPONSE TO OFFICE ACTION

Dear Sir:

In response to the official action mailed August 2, 2019, Applicant submits the following remarks.

REMARKS

The present communication is responsive to the Official Action mailed August 2, 2019 (“Office Action”). In the Office Action, claims 1-9 were rejected under 35 U.S.C. § 103 as obvious over U.S. Publication No. 2013/0048721 (“*Rasband*”) in view of U.S. Patent 8,049,621 (“*Egan*”) and U.S. Patent 8,228,196 (“*Thornton*”). Applicant respectfully disagrees with the rejections, and requests reconsideration in view of the following remarks.

Claim 1 is directed to a method for communicating spatially localized information to a mobile terminal, the method being performed by a central server configured to access a planogram associating a plurality of unique identifiers of radio-frequency peripherals with a plurality of locations within a predetermined area, each of the plurality of locations being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area, and each of the plurality of locations being associated one-to-one with a corresponding unique identifier. The method includes at least the following steps:

receiving a communication from a mobile terminal, the communication comprising a unique identifier received by the mobile terminal from a radio-frequency peripheral located in the predetermined area, the unique identifier being particular to the radio-frequency peripheral, wherein the radio-frequency peripheral includes an antenna and an electronic chip configured for near-field communication, and is configured to be activated by the mobile terminal when the radio-frequency communication peripheral is within a communication range of the mobile terminal, wherein the communication range is less than twenty centimeters;

determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location; and

transmitting to the mobile terminal spatially localized information associated with the location of the mobile terminal.

Spatially localized information

The Office Action contends that paragraph [0035] of *Rasband* discloses “transmitting to the mobile terminal spatially localized information associated with the location of the mobile terminal.” (Office Action 3.)

Applicant respectfully disagrees. Paragraph [0035] of *Rasband* states in its entirety:

[0035] *Moreover, item database 48 may be associated with a predetermined vendor. For example, item database 48 may be associated with a particular vendor such that the vendor is responsible for configuring server 12 to provide item data to mobile device 12. In particular, each vendor may have an associated item database 48 stored in a separate vendor server (e.g., 16 b, 16 n). For example, each vendor may provide their own product information from their respective server such that server 16 (e.g., 16 a, 16 b) functions as a network portal for distributing product information from the vendor server to mobile device 12. Specifically, server 16 may forward a request message including a specific item ID to a particular vendor server associated the item ID. In response to the forwarded request message, the particular vendor server may transmit item data to mobile 12 via server 16 and network 18. Alternatively, item database 48 may be associated with several vendors such that each vendor may predetermine the item data that corresponds to a specific item identifier stored in item database 48.*

At most, the cited passage describes a vendor server transmitting item data to a mobile via a network in response to a forwarded request message. However, there is no indication that the item data is spatially localized information associated with a location of a mobile terminal, as is recited in claim 1. Therefore, the Office Action's reliance on paragraph [0035] of *Rasband* as disclosure of this feature of claim 1 does not adequately support its conclusion.

***Determining a location ... based on the location
associated with the unique identifier ... in the planogram ...
comprising [] vertical and horizontal position***

The Office Action concedes that *Rasband* does not disclose or otherwise suggest the feature “determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location.” However, the Office Action contends that column 6 lines 21-39 of *Egan* describes this feature. The Office Action further contends that it would have been obvious to one skilled in the art to modify the technology of *Rasband* to perform the technique of *Egan* in order to collect and audit information regarding a retail facility's compliance with predetermined product assortment and placement plans. (Office Action 3-4.)

Applicant respectfully disagrees. Column 6 lines 21-39 of *Egan* states in its entirety:

The RFID scanners collect information contained in RFID tags embedded with products on the sales floor (described in greater detail below, and with reference

to FIG. 3), and estimate the location of the tags based on triangulation among the various antennas. The antennas may be deployed in more than one orthogonal plane to increase triangulation accuracy and facilitate measurement of a tag's height above the floor in addition to its position in the horizontal plane of the sales floor. The antennas sense the horizontal and vertical coordinates of the tags with respect to a reference location 90 on the sales floor. In some embodiments, the tags contain information relating to the products with which they are embedded including, for example: sale price, price per unit volume, identification number, product name, volume discount price, manufacturer information, sell-by date, department identification, introduction date, linear footage requirement, position codes, and other associated information. An alternative embodiment with like numerals indicating like elements utilizing multiple hubs 40 is shown in FIG. 6.

At most, the cited passage describes estimating the location of tags based on triangulation. However, there is no description of determining a location of a mobile terminal within a predetermined area based on a location associated with a unique identifier of a received communication in a planogram, as is recited in claim 1. Additionally, there is no discussion in *Egan* as to how the horizontal and vertical coordinates sensed by the antennas is used, or whether it is used altogether. In this regard, there is no indication from *Egan* whether such horizontal and vertical coordinates would be included in a planogram in the first place such that the vertical and horizontal position of a mobile terminal within a predetermined area could be determined based on a location in the planogram, as is further required by claim 1. Therefore, the Office Action's reliance on column 6 lines 21-39 of *Egan* as disclosure of this feature of claim 1 also does not adequately support its conclusion.

At best, the Office Action points to inadequate disclosure in the cited references. Under the guidelines of M.P.E.P. § 2142, the mere citation to passages that do not explicitly establish support for the Office Action's underlying conclusion does not amount to a *prima facie* case of obviousness:

The key to supporting any rejection under 35 U.S.C. § 103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. The Supreme Court in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 538, 418, 82 USPQ2d 1385, 1396 (2007) noted that **the analysis supporting a rejection under 35 U.S.C. § 103 should be made explicit**. The Federal Circuit has stated that **"rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness."** *In re Kahn*, 441

F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 USPQ2d at 1396 (quoting Federal Circuit statement with approval).

(M.P.E.P. § 2142 (emphasis added).)

The Office Action's basis for rejecting the claims is at best unclear, and at worst erroneous. Accordingly, absent some articulated reasoning as to how the item data of *Rasband* is understood to be spatially localized information as recited in claim 1, Applicant assumes the reliance on *Rasband* as disclosure of this feature of claim 1 to be erroneous. Likewise, absent some articulated reasoning as to how the triangulation method for locating RFID tags in *Egan* is understood to be a determination of a location of a mobile terminal as recited in claim 1, Applicant assumes the reliance on *Egan* as disclosure of this feature of claim 1 to also be erroneous.

*

*

*

Applicant further contends that even if one skilled in the art would have considered combining the technologies of *Rasband* and *Egan*, the resulting combination would not have yielded the determining step recited in claim 1.

Egan generally describes a sales floor containing merchandise with embedded RFID tags, and implementing a planogram to collect and analyze sales data in order to optimize future product offerings (e.g., identifying particular product placement configurations, or adjacencies, that maximize sales). (See *Egan*, column 1 lines 35-39, column 4 lines 5-6.) However, one skilled in the art would readily appreciate that the optimizing product placement and maximizing sales may involve placing the same product in several different locations of a sales area. As a result, an RFID tag that identifies a particular product, such as those of *Egan*, do not necessarily identify a specific location of a sales area, since the product may be associated with several different locations of the sales area. Therefore, even if the RFID tags of *Egan* were introduced to the technology of *Rasband*, these tags would have a unique identifier and this would not associate a particular location with a unique identifier, as is recited in claim 1.

Additionally, *Egan* generally describes a planogram that is implemented for planners to collect and analyze sales data to optimize future offerings. (*Egan*, column 1 lines 35-37.) By contrast, the system in *Rasband* is used by a consumer to receive “product information,” such as advertising and sales (See *Rasband*, paragraphs [0004]-[0005] (describing that users want product information while shopping) and [0028] (describing the types of product information *Rasband*

provides)). Therefore, one skilled in the art with knowledge of both *Rasband* and *Egan* would have, at most, developed a system that provides item data to a consumer using a server as taught by *Rasband*, and that separately provides sales data to a planner using a planogram as taught by *Egan*.

Not only would the server of *Rasband* and the planogram of *Egan* be implemented in parallel to one another, but they would also need to be implemented with different sets of tags. This is because the tags of *Egan* are within range of an entire facility to make triangulation in the facility possible (see *Egan*, column 6 lines 14-20), whereas the tags of *Rasband* have a communication range of 30 centimeters (see *Rasband*, paragraph [0025]).

Furthermore, there is no suggestion or motivation of any kind for the sales data-based planogram of *Egan* to be used to serve location-specific information to *Rasband*'s consumer. Indeed, the concept of determining a location of the mobile terminal within a predetermined area based on the location associated with a unique identifier of a received communication in a planogram is not a concept suggested or otherwise motivated by the cited portions of *Rasband* or *Egan*. The only motivation for using a planogram to locate a mobile terminal, or more particularly for using unique identifiers associated with locations in a planogram to locate a mobile terminal, comes from Applicant's own specification and claims. The Office Action reads these features of the present claims into the descriptions of *Rasband* or *Egan*, while in reality the cited references do not describe those features. To this extent, the Office Action engages in an **impermissible hindsight reconstruction** by using Applicant's claims to fill the gaps in the cited art in a manner contrary to what one of ordinary skill in the art would have understood at the time of the invention. The Court of Appeals for the Federal Circuit has consistently warned against such hindsight reconstruction. See e.g. *In Re Gorman*, 933 F.2d 982, 987 (Fed. Cir. 1991) ("It is impermissible, however, simply to engage in a hindsight reconstruction of the claimed invention, using the applicant's structure as a template and selecting elements from references to fill the gaps.") Accordingly, Applicant submits that the combination of *Rasband* and *Egan* is improper and does not amount to a *prima facie* case of obviousness against the claims.

In view of the foregoing, Applicant submits that claim 1 is allowable over the cited references.

Claim 5 is directed to a system for communicating spatially localized information to a mobile terminal, and includes, among other features, "a central server configured to access a

planogram associating a plurality of unique identifiers of radio-frequency peripherals with a plurality of locations within a predetermined area ... [and] determine a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location, and transmit to the mobile terminal spatially localized information associated with the location of the mobile terminal.” Therefore, claim 5 is allowable over the combination of *Rasband*, *Egan* and *Thornton* for the same or similar reasons as presented above in connection with claim 1.

Claims 2-4 depend from claim 1, and claims 6-9 depend from claim 5. Therefore, each of those claims is allowable at least by virtue of its dependency, as well as on its own merits.

Accordingly, Applicant submits that the claims are allowable over the cited references and requests that the rejections under § 103 be withdrawn.

CONCLUSION

As it is believed that all of the rejections set forth in the Official Action have been fully met, favorable reconsideration and allowance are earnestly solicited. If, however, for any reason the Examiner does not believe that such action can be taken at this time, it is respectfully requested that the Examiner telephone Applicant’s attorney at (908) 518-6338 in order to overcome any additional objections which the Examiner might have.

All required fees are being paid via credit card. However, please charge any additional fees not already paid via credit card, and credit any overpayments to our Deposit Account No. 12-1095.

Dated: December 2, 2019

Respectfully submitted,
Electronic signature:
/ David J. Kohn /
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON

CONFIRMATION NO. 1000

PUBLICATION NOTICE



OC000000110430994

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Title:System And Method For Communicating Spatially Organized Information

Publication No.US-2019-0253855-A1

Publication Date:08/15/2019

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON	1000
530 7590 08/02/2019 LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			EXAMINER NGUYEN, TUAN HOANG	
			ART UNIT	PAPER NUMBER
			2647	
			NOTIFICATION DATE	DELIVERY MODE
			08/02/2019	ELECTRONIC

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

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

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eOfficeAction@ldlkm.com

Notice of Pre-AIA or AIA Status

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

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 04/23/2019 has been considered by Examiner and made of record in the application file.

Claim Rejections - 35 USC §103

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

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

3. Claims 1-9 are rejected under 35 U.S.C. 103 as being unpatentable over Rasband et al. (U.S. PUB. 2013/0048721, hereinafter "Rasband") in view of Egan (U.S. PAT. 8,049,621) and further in view of Thornton (U.S. PAT. 8,228,196).

Consider claim 1, Rasband teaches a method for communicating spatially localized information to a mobile terminal (12a), the method being performed by a central server (16a) configured to access a planogram associating a plurality of unique identifiers of radio-frequency peripherals with a plurality of locations within a

predetermined area (fig. 1, page 6 [0049]), and each of the plurality of locations being associated one-to-one with a corresponding unique identifier (fig. 1, page 6 [0049]), the method comprising: receiving a communication from a mobile terminal, the communication comprising a unique identifier received by the mobile terminal from a radio-frequency peripheral located in the predetermined area, the unique identifier being particular to the radio-frequency peripheral (page 4 [0039]), wherein the radio-frequency peripheral includes an antenna and an electronic chip configured for near-field communication (fig. 1, page 2 [0023]), and is configured to be activated by the mobile terminal when the radio-frequency communication peripheral is within a communication range of the mobile terminal (fig. 1, page 3 [0031]); and transmitting to the mobile terminal spatially localized information associated with the location of the mobile terminal (page 4 [0035]).

Rasband does not explicitly show that each of the plurality of locations being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area, and determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location.

In the same field of endeavor, Egan teaches each of the plurality of locations being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area (col. 6 lines 21-39), and determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile

terminal comprising the vertical and horizontal position of said location (col. 6 lines 21-39).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the claimed invention was made to use, each of the plurality of locations being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area, and determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location, as taught by Egan, in order for collecting and auditing information regarding a retail facility's compliance with predetermined product assortment and placement plans.

Rasband and Egan in combination fail to teach wherein the communication range is less than twenty centimeters.

However, Thornton teaches wherein the communication range is less than twenty centimeters (background).

Therefore, it is obvious to one of ordinary skill in the art at the time the invention was made to incorporate the disclosing of Thornton into view of Rasband and Egan, in order to provide provided for displaying advertisements based on electronic tags.

Consider claim 2, Rasband further teaches when the mobile terminal is positioned relative to the radio-frequency communication peripheral within the communication range (page 2 [0025]), energy of electromagnetic waves emitted by the mobile terminal activating the radio-frequency communication peripheral, thereby setting-up a radio-frequency communication between the mobile terminal and the radio-

frequency peripheral (page 4 [0035]), wherein the communication range is a range of the electromagnetic waves emitted by the mobile terminal (page 2 [0025]).

Consider claim 3, Rasband further teaches wherein the central server receiving the communication from the mobile terminal is via the Internet (page 2 [0023]).

Consider claim 4, Rasband further teaches wherein the spatially localized information is further associated with account data specific to the user of the mobile terminal previously stored in a database accessible to the central server via a communication network (page 3 [0033]).

Consider claim 5, Rasband teaches a system (fig. 1) for communicating spatially localized information to a mobile terminal (12a), the system comprising: a central server (16a) configured to access a planogram associating a plurality of unique identifiers (14) of radio-frequency peripherals with a plurality of locations within a predetermined area, and each of the plurality of locations being associated one-to-one with a corresponding unique identifier (fig. 1, page 6 [0049]); a mobile terminal configured to communicate with the central server (fig. 1, page 2 [0023]); and a plurality of radio-frequency peripherals distributed throughout the predetermined area, wherein each radio-frequency peripheral includes an antenna and an electronic chip configured for near-field communication (fig. 1, page 2 [0023]), and is configured to be activated by the mobile terminal when the radio-frequency communication peripheral is within a communication range of the mobile terminal (fig. 1, page 3 [0031]), wherein the central server is configured to: receive a communication from a mobile terminal, the communication comprising a unique identifier received by the mobile terminal from a

radio-frequency peripheral located in the predetermined area, the unique identifier being particular to the radio- frequency peripheral (page 4 [0039]); and transmit to the mobile terminal spatially localized information associated with the location of the mobile terminal (page 4 [0035]).

Rasband does not explicitly show that each of the plurality of locations being defined by a vertical and horizontal position within a vertical plane of the predetermined area, determine a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location.

In the same field of endeavor, Egan teaches each of the plurality of locations being defined by a vertical and horizontal position within a vertical plane of the predetermined area (col. 6 lines 21-39), and determine a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location (col. 6 lines 21-39).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the claimed invention was made to use, each of the plurality of locations being defined by a vertical and horizontal position within a vertical plane of the predetermined area, and determine a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the

vertical and horizontal position of said location, as taught by Egan, in order for collecting and auditing information regarding a retail facility's compliance with predetermined product assortment and placement plans.

Rasband and Egan in combination fail to teach wherein the communication range is less than twenty centimeters.

However, Thornton teaches wherein the communication range is less than twenty centimeters (background).

Therefore, it is obvious to one of ordinary skill in the art at the time the invention was made to incorporate the disclosing of Thornton into view of Rasband and Egan, in order to provide provided for displaying advertisements based on electronic tags.

Consider claim 6, Rasband further teaches wherein at least one radio-frequency peripheral is an electronic label which comprises: a radio-frequency communication module configured to receive data representing information relating to an item from a central server (page 4 [0039]); a memory to store said data (page 6 [0052]); a microcontroller to control the display of information relating to an item (page 3 [0028]); a display screen to display said item-related information (page 3 [0028]).

Consider claim 7, Rasband further teaches wherein the chip and the antenna are arranged at different points of the radio-frequency peripheral, and wherein the radio-frequency peripheral comprises connections configured to ensure a communications link between the antenna and the chip (page 3 [0028]).

Consider claim 8, Rasband further teaches wherein the chip is connected to a microcontroller of the radio-frequency peripheral, and wherein the antenna is arranged on or within a case inside which the microcontroller is housed (page 2 [0025]).

Consider claim 9, Rasband further teaches wherein the mobile terminal is adapted to transmit data to the electronic label via the radio-frequency communication module of said electronic label (electronic price tag) (page 3 [0028]).

Conclusion

4. Any response to this action should be mailed to:

Mail Stop_____ (Explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:

Customer Service Window

Randolph Building

401 Dulany Street

Alexandria, VA 22313

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571) 272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pan Yuwen can be reached on (571) 272-7855. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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/TUAN H NGUYEN/
Primary Examiner, Art Unit 2647

<i>Notice of References Cited</i>	Application/Control No. 16/281,190		Applicant(s)/Patent Under Reexamination Bottine et al.	
	Examiner TUAN H NGUYEN		Art Unit 2647	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20130048721-A1	02-2013	RASBAND; Paul Brent	G06Q30/0241	235/383
*	B	US-8049621-B1	11-2011	Egan; Doug	G06Q10/087	235/375
*	C	US-8228196-B1	07-2012	Thornton; Seth A.	G06Q30/0268	235/378
	D					
	E					
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	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

<i>Search Notes</i> 	Application/Control No. 16/281,190	Applicant(s)/Patent Under Reexamination Bottine et al.
	Examiner TUAN H NGUYEN	Art Unit 2647

CPC - Searched*		
Symbol	Date	Examiner
H04W4/80,H04W4/35.	07/30/2019	T.N

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H04W4/185,H04W8/08.	07/30/2019	T.N

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
All searches are on EAST data base.	07/30/2019	T.N
Inventor name search.	07/30/2019	T.N

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	See search above.	07/30/2019	T.N

	/TUAN H NGUYEN/ Primary Examiner, Art Unit 2647
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Bibliographic Data

Application No: 16/281,190

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /TUAN H NGUYEN/

Examiner's Signature

Initials

Title:

System And Method For Communicating Spatially Organized Information

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/21/2019	455	2647	REGIM 3.9-244 CON CON
RULE			

APPLICANTS

SES-imagotag, Incorporated, Nanterre, FRANCE

INVENTORS

Philippe Bottine Boulogne-Billancourt, FRANCE

François Robin Paris, FRANCE

CONTINUING DATA

This application is a CON of 13861314 04/11/2013ABN

13861314 is a CON of PCT/FR2012/050791 04/11/2012

FOREIGN APPLICATIONS

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03/07/2019

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STATE OR COUNTRY

FRANCE

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WESTFIELD, NJ 07090
UNITED STATES

FILING FEE RECEIVED

\$785

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	24474	communicat\$3 near3 local\$6 near3 (data information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:50
L2	38	(central near3 server\$3) same (identif\$6 near3 ((radio near3 frequenc\$3) RF))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:52
L3	18931	(central near3 server\$3) same identif\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:53
L4	1483064	(radio near3 frequenc\$3) RF	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:53
L5	7401	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
L6	248	1 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
L7	411120	(plural\$5 multipl\$3) near3 (location\$1 poposition\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:54
L8	75	6 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 10:55
L9	460705	(receiv\$3 near4 identif\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:00
L10	38079	((radio near3 frequenc\$3) RF) same (communicat\$3 near3 range\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:02

L11	124	(communicat\$3 near3 range\$1) same ((less small\$3 below) near3 (twenty "20") near3 (centimeter\$1 cm))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:04
L12	48	10 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:05
L13	20	9 and 12	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:05
L14	308042	(determin\$3 verif\$6 calculat\$3) near3 (location\$1 position\$1) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:08
L15	58	6 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
L16	5	Philippe near3 Bottine.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
L17	1	15 and L16	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
L18	33	Francois near3 Robin.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
L19	1	15 and L18	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 11:10
L24	515997	(determin\$3 predetermin\$3 pre-determin\$3) near3 area	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:05
L25	42	6 and 24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:05
L26	1096	((plural\$5 multipl\$3) near3 (location\$1 poposition\$1)) same ((vertical horizontal) near3 position\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:07

L27	1708208	(activat\$3 enabl\$3) near3 (mobile\$1 terminal\$1 device\$1 unit\$1 apparatus module\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:08
L28	201	26 and 27	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:09
L31	61	4 and 28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:11
L33	51	14 and 28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:12
L34	5	10 and 28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:12
L35	4443	((radio near3 frequenc\$3) RF) near3 peripheral\$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:15
L36	644	7 and 35	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
L37	9718	1 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
L38	4	36 and 37	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:16
L39	8716	9 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:17
L40	110	36 and 39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:17
L41	110	14 and 26	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:19

L42	32282	peripheral\$1 same (within near3 range\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:25
L43	3872	27 and 42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:26
L44	431	14 and 43	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:26
L46	17865	sal\$3 near3 area	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:29
L47	37739	display\$3 near3 updat\$3 near3 (data information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:30
L48	163	46 and 47	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:31
L49	36	7 and 48	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:32
L50	88	7 and 44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:32
L55	39	50 AND ((H04W4/80 OR H04W4/35 OR H04W4/185 OR H04W8/08 OR G06Q30/0633 OR G06Q30/0241 OR G06Q20/3224 OR G06Q30/0268 OR G06Q30/0639).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:51
L56	49818	(H04W4/80 OR H04W4/35 OR H04W4/185 OR H04W8/08 OR G06Q30/0633 OR G06Q30/0241 OR G06Q20/3224 OR G06Q30/0268 OR G06Q30/0639).CPC.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:52
L57	22	6 and 56	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2019/07/30 17:52

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

Application Number	16281190
Filing Date	2019-02-21
First Named Inventor	Philippe Bottine
Art Unit	~~2649~~ 2647
Examiner Name	~~Not Yet Assigned~~ Tuan H Nguyen
Attorney Docket Number	REGIM 3.3-244 CON

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8228196		2012-07-24	Thornton	
	2	7152040		2006-12-19	Hawthorne et al.	
	3	8049621		2011-11-01	Egan	

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	1	20120055985	A1	2012-03-08	Allen	
	2	20130048721	A1	2013-02-28	RASBAND et al.	
	3	20020004387	A1	2002-01-10	Newville	

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

Application Number	16281190
Filing Date	2019-02-21
First Named Inventor	Philippe Bottine
Art Unit	~~2849~~ 2647
Examiner Name	~~Not Yet Assigned~~ Tuan H Nguyen
Attorney Docket Number	REGIM 3.3-244 CON

4	20120197729	A1	2012-08-02	Bertram et al.
5	20130048731	A1	2013-02-28	Flickner et al.
6	20090303018	A1	2009-12-10	Catteau
7	20040010446	A1	2004-01-15	Vanska et al.
8	20050097038	A1	2005-05-05	Yu et al.
9	20050021561	A1	2005-01-27	Noonan

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	200877131	JP	A	2008-04-03	Dainippon Printing Co Ltd	Machine-generated English translation attached.	×
	2	2010131629	WO	A1	2010-11-18	IBM	EP Publication No. 2431954 (A1) is an English language counterpart.	□
	3	2011191822	JP	A	2011-09-29	Toshiba Tec KK	Machine-generated English translation utilizing Google Translate is attached.	☒

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

Application Number		16281190
Filing Date		2019-02-21
First Named Inventor	Philippe Bottine	
Art Unit	2649 2647	
Examiner Name	~~Not Yet Assigned~~ Tuan H Nguyen	
Attorney Docket Number	REGIM 3.3-244 CON	

4	2011154614	JP	A	2011-08-11	Arumatto KK	Machine-generated English translation utilizing Google Translate is attached.	☒
5	201238270	JP	A	2012-02-23	Funai Electric Co	Machine-generated English translation utilizing Google Translate is attached.	☒
6	200611617	JP	A	2006-01-12	Hakuhodo Inc	Machine-generated English translation utilizing Google Translate is attached.	☒
7	2431954	EP	A1	2012-03-21	IBM	English translation of equivalent Publication No.WO 2010/131629 A1.	☐

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NON-PATENT LITERATURE DOCUMENTS

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

Examiner Signature	/TUAN H NGUYEN/	Date Considered	07/30/2019
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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

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

Application Number	16281190
Filing Date	2019-02-21
First Named Inventor	Philippe Bottine
Art Unit	~~2649~~ 2647
Examiner Name	~~Not Yet Assigned~~ Tuan H Nguyen
Attorney Docket Number	REGIM 3.3-244 CON

CERTIFICATION STATEMENT

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

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

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See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/David J. Kohn/	Date (YYYY-MM-DD)	2019-04-23
Name/Print	David J. Kohn	Registration Number	68,909

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/281,190	02/21/2019	2647	785	REGIM 3.9-244 CON CON	9	2

CONFIRMATION NO. 1000
CORRECTED FILING RECEIPT



0000000109197948

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 06/27/2019

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.

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Inventor(s)

Philippe Bottine, Boulogne-Billancourt, FRANCE;
François Robin, Paris, FRANCE;

Applicant(s)

SES-imagotag, Incorporated, Nanterre, FRANCE;

Assignment For Published Patent Application

SES-imagotag, Incorporated, Nanterre, FRANCE

Power of Attorney: The patent practitioners associated with Customer Number 00530

Domestic Priority data as claimed by applicant

This application is a CON of 13/861,314 04/11/2013 ABN
which is a CON of PCT/FR2012/050791 04/11/2012

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

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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: 03/07/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/281,190**

Projected Publication Date: 08/15/2019

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System And Method For Communicating Spatially Organized Information

Preliminary Class

455

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

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page 2 of 4

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Dated: June 21, 2019

Electronic Signature for Thomas M. Palisi: /Thomas M. Palisi/

Docket No. REGIM 3.9-244 CON CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2647

For: System And Method For Communicating Spatially
Organized Information

Examiner: Y. Pan

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

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

This is in response to the Notification mailed June 10, 2019, which indicates that the ADS previously submitted on May 16, 2019 was not properly marked up to show the desired changes in both underlines and strike-throughs. In response to the Notification, Applicant is submitting herewith a Corrected ADS, showing the requested mark-ups, and as such, Applicant believes no additional fees are due at this time.

If there are any questions concerning this application, the Examiner is requested to call Applicant's attorney at (908) 654-5000. All required fees are being paid via credit card. However, please charge any additional fees not already paid via credit card, and credit any overpayments to our Deposit Account No. 12-1095.

Dated: June 21, 2019

Respectfully submitted,

Electronic signature: /Thomas M. Palisi/

Thomas M. Palisi

Registration No.: 36,629

LERNER, DAVID, LITTENBERG, KRUMHOLZ
& MENTLIK, LLP

600 South Avenue West

Westfield, New Jersey 07090

(908) 654-5000

Attorney for Applicant

Electronic Acknowledgement Receipt

EFS ID:	36374615
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	Stephen M. Lund/Cindy Corb
Filer Authorized By:	Stephen M. Lund
Attorney Docket Number:	REGIM 3.9-244 CON CON
Receipt Date:	21-JUN-2019
Filing Date:	21-FEB-2019
Time Stamp:	14:35:00
Application Type:	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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Application_Data_Sheet.pdf	16459	no	1
			e0344cf634cbbe4c9d87f59e765d57548fa8316b		

Warnings:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 68

Information:					
This is not an USPTO supplied ADS fillable form					
2	Miscellaneous Incoming Letter	Amendment.pdf	20836	no	1
			cd08361d6e0853ac714ca4ad583a39ae4a4b0a61		
Warnings:					
Information:					
			Total Files Size (in bytes):	37295	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Corrected Application Data Sheet**Application Information**

Application Number:: 16/281,190

Filing Date:: 02/21/19

Title:: System And Method For
Communicating Spatially Organized
Information

Attorney Docket Number:: REGIM 3.9-244 CON CON

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
This Application	Continuation of	13/861,314	04/11/13	Abandoned
<u>13/861,314</u>	~~a 371 of~~ international Continuation of	<u>PCT/FR2012/050791</u>	<u>04/11/12</u>	

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	/Thomas M. Palisi/	Date (YYYY-MM-DD)	2019-06-21
Name	Thomas M. Palisi	Registration Number	36,629



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
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.9-244 CON CON

CONFIRMATION NO. 1000

IMPROPER CFR REQUEST



530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 06/10/2019

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 05/16/2019 was not properly marked up to show the desired changes. For information being changed relative to the information already of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

In order to make changes to the information of record, an ADS must be properly signed and properly marked up relative to the current information of record.

Proper signature: The ADS must be signed with a handwritten signature or proper S-signature by:

- A patent practitioner, with the practitioner's registration number accompanying the signature (e.g., immediately below or adjacent to the signature), or
- The applicant, if the applicant is an individual other than the inventor(s) and no power of attorney has been appointed, or
- All of the inventors, if no other applicant has been established and no power of attorney has been appointed.

A proper S-signature consists of only letters and/or Arabic numerals, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation contained between a first single forward slash mark before, and a second single forward slash mark after, the S-signature.

Proper markings: The ADS must identify the changes being made with underlining for insertions and strike-through or brackets for text removed. No other markings or indications are acceptable. Where an ADS providing corrected or updated information does not contain all of the sections of the ADS, the entire section in which changes are being made must be included in the ADS. Information of record can generally be found on the latest filing receipt.

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.

/hteffer/

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: June 6, 2019
Electronic Signature for David J. Kohn: /David J. Kohn/

Docket No. REGIM 3.9-244 CON CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2647

For: System And Method For Communicating Spatially
Organized Information

Examiner: Y. Pan

Office of Initial Patent Examination's Filing Receipt Corrections
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

On May 16, 2019, Applicant submitted a Preliminary Amendment to update the Cross-Reference to Related Applications section of the specification along with a Corrected Application Data Sheet correcting the Domestic Priority Information to include the claim to priority of the PCT application. Please note that the Filing Receipt for the above-identified case contains the following error:

Domestic Priority data as claimed by applicant

This application is a CON of 13/861,314 04/11/2013
which is a 371 of PCT/FR2012/050791 04/11/2012

Please update the filing receipt to include the priority claim to the PCT application. Kindly issue a corrected filing receipt for the above-identified application as soon as possible.

Dated: June 6, 2019

Respectfully submitted,

Electronic signature:

/David J. Kohn/

David J. Kohn

Registration No.: 68,909

LERNER, DAVID, LITTENBERG, KRUMHOLZ &
MENTLIK, LLP

600 South Avenue West

Westfield, New Jersey 07090

(908) 654-5000

Attorney for Applicant

Electronic Acknowledgement Receipt

EFS ID:	36220117
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	Stephen M. Lund/Cindy Corb
Filer Authorized By:	Stephen M. Lund
Attorney Docket Number:	REGIM 3.3F-244 CON
Receipt Date:	06-JUN-2019
Filing Date:	21-FEB-2019
Time Stamp:	11:24:17
Application Type:	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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	Request_for_Corrected_Filing_Receipt.pdf	23742 84432121cc97666659012094cbb7528a81f24e47	no	1

Warnings:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 73

Information:	
Total Files Size (in bytes):	23742
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Electronic Acknowledgement Receipt

EFS ID:	36033858
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	Stephen M. Lund
Filer Authorized By:	
Attorney Docket Number:	REGIM 3.3F-244 CON
Receipt Date:	16-MAY-2019
Filing Date:	21-FEB-2019
Time Stamp:	15:11:01
Application Type:	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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Application_Data_Sheet.pdf	23873	no	1
			6d841c29e2e91106692684baeeddc72b68ffae3		

Warnings:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 75

Information:					
This is not an USPTO supplied ADS fillable form					
2	Preliminary Amendment	Preliminary_Amendment.pdf	24362	no	3
			e62e7d1c291d27857b8a56dc074da87dbc bd38b8		
Warnings:					
Information:					
			Total Files Size (in bytes):	48235	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Corrected Application Data Sheet

Application Information

Application Number:: 16/281,190
Filing Date:: 02/21/19
Attorney Docket Number:: ~~REGIM 3.3-244 CON~~ REGIM 3.9-244
CON CON

Representative Information

Representative Customer Number:: 00530

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
This Application	Continuation of	13/861,314	04/11/13	Abandoned
13/861,314	~~a 371 of~~ international <u>Continuation of</u>	PCT/FR2012/050791	04/11/12	

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	/David J. Kohn/	Date (YYYY-MM-DD)	2019-05-16
Name	David J. Kohn	Registration Number	68,909

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: May 16, 2019
Electronic Signature for David J. Kohn: /David J. Kohn/

Docket No. REGIM 3.9-244 CON CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2647

For: System And Method For Communicating
Spatially Organized Information

Examiner: Y. Pan

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

PRELIMINARY AMENDMENT

Dear Sir:

Prior to initiation of the prosecution of the above-identified pending U.S. patent application, the following amendments and remarks are respectfully submitted.

IN THE SPECIFICATION

CROSS-REFERENCE TO RELATED APPLICATIONS

[0000.1] The present application is a continuation of U.S. Patent Application No. 13/861,314, filed April 11, 2013, now abandoned, which ~~application is a national phase entry under 35 U.S.C. § 371 of~~ claims priority from International Application No. PCT/FR2012/050791 filed April 11, 2012, ~~the disclosure~~ all of which is are incorporated herein by reference.

REMARKS

The above-noted revision to the Specification is respectfully submitted prior to initiation of the prosecution of this application in the U.S. Patent and Trademark Office.

The revision to the application is submitted in order to update the priority information. No new matter is included in these amendments.

In view of the above, it is respectfully requested that these amendments now be entered, and that prosecution on the merits of this application now be initiated. If, however, for any reason the Examiner does not believe such action can be taken, it is respectfully requested that the Examiner telephone Applicant's attorney at (908) 654-5000 in order to overcome any objections that the Examiner may have.

All required fees are being paid via credit card. However, please charge any additional fees not already paid via credit card, and credit any overpayments to our Deposit Account No. 12-1095.

Dated: May 16, 2019

Respectfully submitted,

Electronic signature:

/David J. Kohn/

David J. Kohn

Registration No.: 68,909

LERNER, DAVID, LITTENBERG,

KRUMHOLZ & MENTLIK, LLP

600 South Avenue West

Westfield, New Jersey 07090

(908) 654-5000

Attorney for Applicant

5925567_1.docx



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
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.3F-244 CON

CONFIRMATION NO. 1000

IMPROPER CFR REQUEST



530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 05/10/2019

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

Prior-Filed Nonprovisional Application has been Improperly Indicated as a National Stage (35 U.S.C. 371) Application

Applicant submitted a benefit claim to a prior-filed nonprovisional application and improperly indicated that the prior-filed application is a national stage application under 35 U.S.C. 371. The Office's records show that the prior-filed application is an application filed under 35 U.S.C. 111(a). The Office has entered the benefit claim to the prior-filed application as a benefit claim to an application filed under 35 U.S.C. 111(a). Any request for a corrected filing receipt to include the indication that the prior-filed application is a national stage application will not be granted unless applicant supplies evidence that the prior application was in fact a national stage application. Accordingly, applicant should not submit such request without such evidence. Applicant should submit a corrected application data sheet (ADS) to delete the indication that the prior-filed application is a national stage application.

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.

/byemane/



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	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/281,190	02/21/2019	2647	785	REGIM 3.3F-244 CON	9	2

CONFIRMATION NO. 1000
CORRECTED FILING RECEIPT

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090



Date Mailed: 05/10/2019

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)

Philippe Bottine, Boulogne-Billancourt, FRANCE;
François Robin, Paris, FRANCE;

Applicant(s)

SES-imagotag, Incorporated, Nanterre, FRANCE;

Assignment For Published Patent Application

SES-imagotag, Incorporated, Nanterre, FRANCE

Power of Attorney: The patent practitioners associated with Customer Number 00530

Domestic Priority data as claimed by applicant

This application is a CON of 13/861,314 04/11/2013

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: 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: 03/07/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/281,190**

Projected Publication Date: 08/15/2019

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System And Method For Communicating Spatially Organized Information

Preliminary Class

455

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

page 2 of 4

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
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
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.3F-244 CON

CONFIRMATION NO. 1000

NEW OR REVISED PPD NOTICE

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090



NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 08/15/2019. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently <http://pair.uspto.gov>. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Questions relating to this Notice 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.

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: May 7, 2019
Electronic Signature for David J. Kohn: /David J. Kohn/

Docket No. REGIM 3.3-244 CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2649

For: System And Method For Communicating
Spatially Organized Information

Examiner: Not Yet Assigned

REQUEST FOR CORRECTED FILING RECEIPT

Office of Initial Patent Examination's Filing Receipt Corrections
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please note that the Filing Receipt for the above-identified case contains the following error:

In accordance with the Application Data Sheet filed on April 13, 2019, in the section entitled "*Domestic Applications for which benefit is claimed*" please remove "None" and replace with the following:

This application is a Continuation of 13/861,314 04/11/2013
which is a 371 of PCT/FR2012/050791 04/11/2012

Kindly issue a corrected filing receipt for the above-identified application as soon as possible.

Dated: May 7, 2019

Respectfully submitted,
Electronic signature:
/David J. Kohn/
David J. Kohn
Registration No.: 68,909
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP
600 South Avenue West
Westfield, New Jersey 07090
(908) 654-5000
Attorney for Applicant

Corrected Application Data Sheet

Correspondence Information

Correspondence Customer Number:: 00530

Application Information

Application Number:: 16/281,190

Filing Date:: 02/21/19

Attorney Docket Number:: REGIM 3.3F-244 CON

Representative Information

Representative Customer Number:: 00530

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
<u>This Application</u>	<u>Continuation of</u>	<u>13/861,314</u>	<u>04/11/13</u>	<u>Abandoned</u>
<u>13/861,314</u>	<u>a 371 of international</u>	<u>PCT/FR2012/050791</u>	<u>04/11/12</u>	<u>Expired</u>

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	/ David J. Kohn /	Date (YYYY-MM-DD)	2019-05-07
Name	David J. Kohn	Registration Number	68,909

Electronic Acknowledgement Receipt

EFS ID:	35935843
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	April M. Capati/Kathleen Reynolds
Filer Authorized By:	April M. Capati
Attorney Docket Number:	REGIM 3.3F-244 CON
Receipt Date:	07-MAY-2019
Filing Date:	21-FEB-2019
Time Stamp:	11:35:25
Application Type:	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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	Request_for_Corrected_Filing_Receipt.pdf	27197 82c266f05dd7cbddf1ba40fe68cf83b71460d55f	no	1

Warnings:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 89

Information:					
2	Application Data Sheet	Corrective_Application_Data_Sheet.pdf	16481	no	1
			f808bec851052f99deee4a0169a39666b74e8743		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
Total Files Size (in bytes):				43678	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/281,190	02/21/2019	Philippe Bottine	REGIM 3.3F-244 CON

CONFIRMATION NO. 1000

IMPROPER CFR REQUEST



530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 04/29/2019

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- To add or correct a benefit claim under 35 U.S.C. 119(e), 120, 121, or 365(c) to a prior-filed national application or international application designating the United States, applicant must submit a new application data sheet (ADS) with the desired benefit claim. For information being changed relative to the information already of record, additions should be shown with underlining, and deletions should be shown with strikeouts. A domestic benefit claim that is presented after the time period set forth in 37 CFR 1.78 must be accompanied by a petition under 37 CFR 1.78.

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 04/23/2019 was not properly marked up to show the desired changes. For information being changed relative to the information already of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

In order to make changes to the information of record, an ADS must be properly signed and properly marked up relative to the current information of record.

Proper signature: The ADS must be signed with a handwritten signature or proper S-signature by:

- A patent practitioner, with the practitioner's registration number accompanying the signature (e.g., immediately below or adjacent to the signature), or
- The applicant, if the applicant is an individual other than the inventor(s) and no power of attorney has been appointed, or
- All of the inventors, if no other applicant has been established and no power of attorney has been appointed.

A proper S-signature consists of only letters and/or Arabic numerals, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation contained between a first single forward slash mark before, and a second single forward slash mark after, the S-signature.

Proper markings: The ADS must identify the changes being made with underlining for insertions and strike-through or brackets for text removed. No other markings or indications are acceptable. Where an ADS providing corrected or updated information does not contain all of the sections of the ADS, the entire section in which changes are being made must be included in the ADS. Information of record can generally be found on the latest filing receipt.

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**.

/sstephanos/



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/281,190	02/21/2019	2649	785	REGIM 3.3F-244 CON	9	2

CONFIRMATION NO. 1000
CORRECTED FILING RECEIPT

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090



Date Mailed: 04/29/2019

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)

Philippe Bottine, Boulogne-Billancourt, FRANCE;
François Robin, Paris, FRANCE;

Applicant(s)

SES-imagotag, Incorporated, Nanterre, FRANCE;

Assignment For Published Patent Application

SES-imagotag, Incorporated, Nanterre, FRANCE

Power of Attorney: The patent practitioners associated with Customer Number 00530

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

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: 03/07/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/281,190**

Projected Publication Date: 08/27/2020

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System And Method For Communicating Spatially Organized Information

Preliminary Class

455

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

page 2 of 4

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).

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technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/281,190	02/21/2019	Philippe Bottine	REGIM-517

CONFIRMATION NO. 1000

POA ACCEPTANCE LETTER



530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 04/29/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/23/2019.

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

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

/sstephanos/

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 the Customer Number: 00530

OR

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

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or 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:

OR

☐ Firm or Individual Name

Address

City State Zip

Country

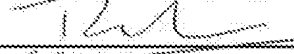
Telephone Email

Assignee Name and Address:
SES-imagotag
55 Place Nelson Mandela
92000 Nanterre
FRANCE

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/SB/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	October 2nd, 2018
Name	Thierry GADON	Telephone	+ 33 1 34 34 61 61
Title	CEO		

Corrected Application Data Sheet

Correspondence Information

Correspondence Customer Number:: 00530

Application Information

Application Number:: ~~Not Yet Assigned~~ 16/281,190

Filing Date:: 02/21/19

Attorney Docket Number:: ~~REGIM-517~~ REGIM 3.3F-244 CON

Representative Information

Representative Customer Number:: 00530

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
This Application	Continuation of	13/861,314	04/11/13	~~Pending~~ <u>Abandoned</u>
13/861,314	a 371 of international	PCT/FR2012/050791	04/11/12	

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	/David J. Kohn/	Date (YYYY-MM-DD)	2019-04-23
Name	David J. Kohn	Registration Number	68,909

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: SES-imagotag, IncorporatedApplication No./Patent No./Control No.: 16/281,190 Filed/Issue Date: February 21, 2019Entitled: System And Method For Communicating Spatially Organized InformationSES-imagotag, Incorporated, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

- 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 __, Frame __, or a true copy of the original assignment is attached.

OR

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

1. From: Philippe Bottine To: Store Electronic Systems
The document was recorded in the United States Patent and Trademark Office at
Reel 032054, Frame 0975, or for which a copy thereof is attached.
2. From: Francois Robin To: Store Electronic Systems
The document was recorded in the United States Patent and Trademark Office at
Reel 032054, Frame 0975, or for which a copy thereof is attached.
3. From: Store Electronic Systems To: SES-imagotag, Incorporated
The document was recorded in the United States Patent and Trademark Office at
Reel 047155, Frame 0135, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.**As required by 37 CFR 3.73(b)(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.

/David J. Kohn/
SignatureApril 23, 2019
DateDavid J. Kohn
Printed or Typed Name(908) 518-6338
Telephone NumberAttorney for Assignee
Title

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: April 23, 2019

Electronic Signature for David J. Kohn: /David J. Kohn/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16281190
	Filing Date		2019-02-21
	First Named Inventor	Philippe Bottine	
	Art Unit	2649	
	Examiner Name	Not Yet Assigned	
	Attorney Docket Number	REGIM 3.3-244 CON	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8228196		2012-07-24	Thornton	
	2	7152040		2006-12-19	Hawthorne et al.	
	3	8049621		2011-11-01	Egan	

If you wish to add additional U.S. Patent citation information please click the Add button.

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U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20120055985	A1	2012-03-08	Allen	
	2	20130048721	A1	2013-02-28	RASBAND et al.	
	3	20020004387	A1	2002-01-10	Newville	

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

Application Number	16281190
Filing Date	2019-02-21
First Named Inventor	Philippe Bottine
Art Unit	2649
Examiner Name	Not Yet Assigned
Attorney Docket Number	REGIM 3.3-244 CON

4	20120197729	A1	2012-08-02	Bertram et al.
5	20130048731	A1	2013-02-28	Flickner et al.
6	20090303018	A1	2009-12-10	Catteau
7	20040010446	A1	2004-01-15	Vanska et al.
8	20050097038	A1	2005-05-05	Yu et al.
9	20050021561	A1	2005-01-27	Noonan

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	200877131	JP	A	2008-04-03	Dainippon Printing Co Ltd	Machine-generated English translation attached.	×
	2	2010131629	WO	A1	2010-11-18	IBM	EP Publication No. 2431954 (A1) is an English language counterpart.	□
	3	2011191822	JP	A	2011-09-29	Toshiba Tec KK	Machine-generated English translation utilizing Google Translate is attached.	☒

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

Application Number		16281190
Filing Date		2019-02-21
First Named Inventor	Philippe Bottine	
Art Unit	2649	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	REGIM 3.3-244 CON	

4	2011154614	JP	A	2011-08-11	Arumatto KK	Machine-generated English translation utilizing Google Translate is attached.	☒
5	201238270	JP	A	2012-02-23	Funai Electric Co	Machine-generated English translation utilizing Google Translate is attached.	☒
6	200611617	JP	A	2006-01-12	Hakuhodo Inc	Machine-generated English translation utilizing Google Translate is attached.	☒
7	2431954	EP	A1	2012-03-21	IBM	English translation of equivalent Publication No.WO 2010/131629 A1.	☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

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

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

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

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

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

Application Number	16281190
Filing Date	2019-02-21
First Named Inventor	Philippe Bottine
Art Unit	2649
Examiner Name	Not Yet Assigned
Attorney Docket Number	REGIM 3.3-244 CON

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/David J. Kohn/	Date (YYYY-MM-DD)	2019-04-23
Name/Print	David J. Kohn	Registration Number	68,909

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: April 23, 2019
Electronic Signature for David J. Kohn: /David J. Kohn/

Docket No. REGIM 3.3-244 CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2649

For: System And Method For Communicating
Spatially Organized Information

Examiner: Not Yet Assigned

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

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

It is respectfully requested that the references listed on the enclosed form be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each reference was of record in Application No. 13/861,314, the benefit of which is claimed under § 120. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited references are legally available prior art or that the same are pertinent or material.

The required fees are being paid via credit card. However, please charge any additional fees not already paid via credit card, and credit any overpayments to our Deposit Account No. 12-1095.

Dated: April 23, 2019

Respectfully submitted,
Electronic signature:
/David J. Kohn/
David J. Kohn
Registration No.: 68,909
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP
600 South Avenue West
Westfield, New Jersey 07090
(908) 654-5000
Attorney for Applicant

Electronic Acknowledgement Receipt

EFS ID:	35804052
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	530
Filer:	April M. Capati/Kathleen Reynolds
Filer Authorized By:	April M. Capati
Attorney Docket Number:	REGIM-517
Receipt Date:	23-APR-2019
Filing Date:	21-FEB-2019
Time Stamp:	14:28:36
Application Type:	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)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	SES_IMAGOTAG - _2018_10_02_PoA_USPTO.pdf	71287 170851c0acb26e7eeba52f047b7307f8aaaf4149	no	1

Warnings:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 107

Information:					
2	Application Data Sheet	Application_Data_Sheet.pdf	16480	no	1
			3228593b4fb86b0b394356e6ec831b5d01e5d89d		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Assignee showing of ownership per 37 CFR 3.73	Statement_By_Assignee_to_Establish_Ownership_37_CFR_373b.pdf	23048	no	1
			5a92769f857cdf0da03ea70de374a09519d36e20		
Warnings:					
Information:					
4	Preliminary Amendment	Preliminary_Amendment.pdf	24349	no	3
			2ed47b9e2cb9c6b38ce973223785d286b46004af		
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	REGIM517_-_Information_Disclosure_Statement_Fillable_PDF.pdf	1035026	no	5
			7b13dd22a5f06ceccb27ebf094ab33eeb042c4db		
Warnings:					
Information:					
6	Transmittal Letter	IDS_-_Information_Disclosure_Statement_-_Reference_in_Previous_Application_LD-459.pdf	21596	no	1
			6060f0e1e43dd24b794554eac053132485654385		
Warnings:					
Information:					
Total Files Size (in bytes):			1191786		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: April 23, 2019
Electronic Signature for David J. Kohn: /David J. Kohn/

Docket No. REGIM 3.3-244 CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Bottine et al.

Application No.: 16/281,190

Confirmation No.: 1000

Filed: February 21, 2019

Art Unit: 2649

For: System And Method For Communicating
Spatially Organized Information

Examiner: Not Yet Assigned

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Dear Sir:

Prior to initiation of the prosecution of the above-identified pending U.S. patent application, the following amendments and remarks are respectfully submitted.

IN THE SPECIFICATION

Please amend page 1 by adding the following header and paragraph between the title and the header GENERAL TECHNICAL FIELD AND BACKGROUND OF THE INVENTION:

CROSS-REFERENCE TO RELATED APPLICATIONS

[0000.1] The present application is a continuation of U.S. Patent Application No. 13/861,314, filed April 11, 2013, now abandoned, which application is a national phase entry under 35 U.S.C. § 371 of International Application No. PCT/FR2012/050791 filed April 11, 2012, the disclosure of which is incorporated herein by reference.

REMARKS

The amendment to the Specification is submitted to include priority information. No new matter is included in this amendment.

In view of the above, it is respectfully requested that these amendments now be entered, and that prosecution on the merits of this application now be initiated. If, however, for any reason the Examiner does not believe such action can be taken, it is respectfully requested that the Examiner telephone Applicant's attorney at (908) 654-5000 in order to overcome any objections that the Examiner may have.

All required fees are being paid via credit card. However, please charge any additional fees not already paid via credit card, and credit any overpayments to our Deposit Account No. 12-1095.

Dated: April 23, 2019

Respectfully submitted,

Electronic signature:

/David J. Kohn/

David J. Kohn

Registration No.: 68,909

LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP

600 South Avenue West
Westfield, New Jersey 07090
(908) 654-5000
Attorney for Applicant

5901730_1.docx



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
16/281,190	02/21/2019	Philippe Bottine	REGIM-517

530
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

**CONFIRMATION NO. 1000
IMPROPER CPOA LETTER**



Date Mailed: 03/11/2019

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 02/21/2019. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/dgela/

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



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	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/281,190	02/21/2019		785	REGIM-517	9	2

CONFIRMATION NO. 1000

FILING RECEIPT



0000000106426338

530

LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

Date Mailed: 03/11/2019

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

Inventor(s)

Philippe Bottine, Boulogne-Billancourt, FRANCE;
François Robin, Paris, FRANCE;

Applicant(s)

SES-imagotag, Incorporated, Nanterre, FRANCE;

Assignment For Published Patent Application

SES-imagotag, Incorporated, Nanterre, FRANCE

Power of Attorney: None

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

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: 03/07/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/281,190**

Projected Publication Date: 08/27/2020

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System And Method For Communicating Spatially Organized Information

Preliminary Class

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/281,190				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	330		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	9	minus 20 = *	x 50 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 230 =	0.00						
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00						
			TOTAL	785		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										

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 the Customer Number: 00530

OR

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

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or 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:

OR

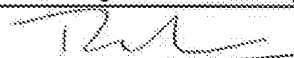
☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:
SES-imagotag
55 Place Nelson Mandela
92000 Nanterre
FRANCE

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/SB/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	October 2nd, 2018
Name	Thierry GADON	Telephone	+ 33 1 34 34 61 61
Title	CEO		

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

System And Method For Communicating Spatially Organized Information

First Named Inventor/Applicant Name:

Philippe Bottine

Filer:

Cindy Corb

Attorney Docket Number:

REGIM 3.3-244 CON

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Ex. 1002, page 119

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				785

Electronic Acknowledgement Receipt

EFS ID:	35208667
Application Number:	16281190
International Application Number:	
Confirmation Number:	1000
Title of Invention:	System And Method For Communicating Spatially Organized Information
First Named Inventor/Applicant Name:	Philippe Bottine
Customer Number:	00530
Filer:	Cindy Corb
Filer Authorized By:	
Attorney Docket Number:	REGIM 3.3-244 CON
Receipt Date:	21-FEB-2019
Filing Date:	
Time Stamp:	10:28:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$785
RAM confirmation Number	022119INTEFSW10294600
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Utility_Patent_Application_Transmittal.pdf	34009	no	1
			a18691842d69cc220b2a3810efda69766c071163		
Warnings:					
Information:					
2	Application Data Sheet	REGIM517_-_Application_Data_Sheet_Fillable_PDF.pdf	1255598	no	8
			a635d34ac55ac1a35d243e531c58aa04dacd313d		
Warnings:					
Information:					
3	Drawings-only black and white line drawings	DRAWINGS.pdf	59210	no	3
			f92dadf34872e7ffe382ebc23d970b8a5ad100e6		
Warnings:					
Information:					
4	Specification	Specification.pdf	57669	no	15
			2dfd730fe5c8813930df68cba05d89911c314cca		
Warnings:					
Information:					
5	Oath or Declaration filed	executed_declaration.pdf	247661	no	2
			e59473da610fd0e433229b1aeb5f6432b64e15ae		
Warnings:					
Information:					
6	Power of Attorney	SES_IMAGOTAG_-_2018_10_02_PoA_USPTO.pdf	71287	no	1
			170851c0acb26e7eeba52f047b7307f8aaaf4149		
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	35226	no	2
			e24bfa9765734ce0c35e1ddd012d997fe8e1108		

Warnings:

Information:

Total Files Size (in bytes):	1760660
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Attorney Docket No.</td> <td>REGIM-517</td> </tr> <tr> <td>First Named Inventor</td> <td>Philippe Bottine</td> </tr> <tr> <td>Title</td> <td>System And Method For Communicating Spatially Organized Information</td> </tr> <tr> <td>Priority Mail Express® Label No.</td> <td></td> </tr> </table>	Attorney Docket No.	REGIM-517	First Named Inventor	Philippe Bottine	Title	System And Method For Communicating Spatially Organized Information	Priority Mail Express® Label No.	
Attorney Docket No.	REGIM-517								
First Named Inventor	Philippe Bottine								
Title	System And Method For Communicating Spatially Organized Information								
Priority Mail Express® Label No.									

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. 1. ☐ Fee Transmittal Form (PTO/SB/17 or equivalent) 2. ☒ Applicant asserts small entity status. See 37 CFR 1.27 3. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. ☒ Specification [Total Pages <u>15</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets <u>3</u>] 6. Inventor's Oath or Declaration [Total Pages <u>2</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. ☒ Newly executed (original or copy) b. ☐ A copy from a prior application (37 CFR 1.63(d)) 7. ☒ Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) ☐ Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 ACCOMPANYING APPLICATION PAPERS 10. ☐ Assignment Papers (cover sheet & document(s)) 11. ☐ 37 CFR 3.73(c) Statement (when there is an assignee) ☒ Power of Attorney 12. ☐ English Translation Document (if applicable) 13. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached 14. ☐ Preliminary Amendment 15. ☐ Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. ☐ Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. ☐ Other:
---	---

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS			
☒ The address associated with Customer Number: <u>00530</u> OR ☐ Correspondence address below			
Name			
Address			
City	State	Zip Code	
Country	Telephone	Email	
Signature	/David J. Kohn/		Date
Name (Print/Type)	David J. Kohn		February 21, 2019
	Registration No. (Attorney/Agent)		68,909

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: February 21, 2019

Electronic Signature for David J. Kohn: /David J. Kohn/

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor	1				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
Mr. v	Philippe		Bottine	v		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service						
City	Boulogne-Billancourt		Country of Residence ⁱ		FR	
Mailing Address of Inventor:						
Address 1		6 rue des Peupliers				
Address 2						
City	Boulogne-Billancourt		State/Province			
Postal Code	92100		Country ⁱ	FR		
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
Mr. v	François		Robin	v		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service						
City	Paris		Country of Residence ⁱ		FR	
Mailing Address of Inventor:						
Address 1		34 rue Saint-Didier				
Address 2						
City	Paris		State/Province			
Postal Code	75116		Country ⁱ	FR		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
Add						

Correspondence Information:

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	00530		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	System And Method For Communicating Spatially Organized Information		
Attorney Docket Number	REGIM-517	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	1

Filing By Reference:

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

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

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

Publication Information:

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

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

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:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	00530		

HANSHOW AMERICA INC. and HANSHOW TECHNOLOGY CO., LTD.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

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		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

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)ⁱ 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).

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

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

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.

Applicant	1	Remove
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. Clear		
☒ Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor:		
If the Applicant is an Organization check here. ☒		
Organization Name	SES-imagotag, Incorporated	
Mailing Address Information For Applicant:		
Address 1	55 Place Nelson Mandela	
Address 2		
City	Nanterre	State/Province
Country	FR	Postal Code
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. Add		

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

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.			
Remove			
If the Assignee or Non-Applicant Assignee is an Organization check here. ☒			
Organization Name	SES-imagotag, Incorporated		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	55 Place Nelson Mandela		
Address 2			
City	Nanterre	State/Province	
Country i	FR	Postal Code	92000
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add			

Signature:[Remove](#)

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	/David J. Kohn/		Date (YYYY-MM-DD)	2019-02-21	
First Name	David	Last Name	Kohn	Registration Number	68,909
Additional Signature may be generated within this form by selecting the Add button. Add					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	REGIM-517
		Application Number	
Title of Invention	System And Method For Communicating Spatially Organized Information		

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.**

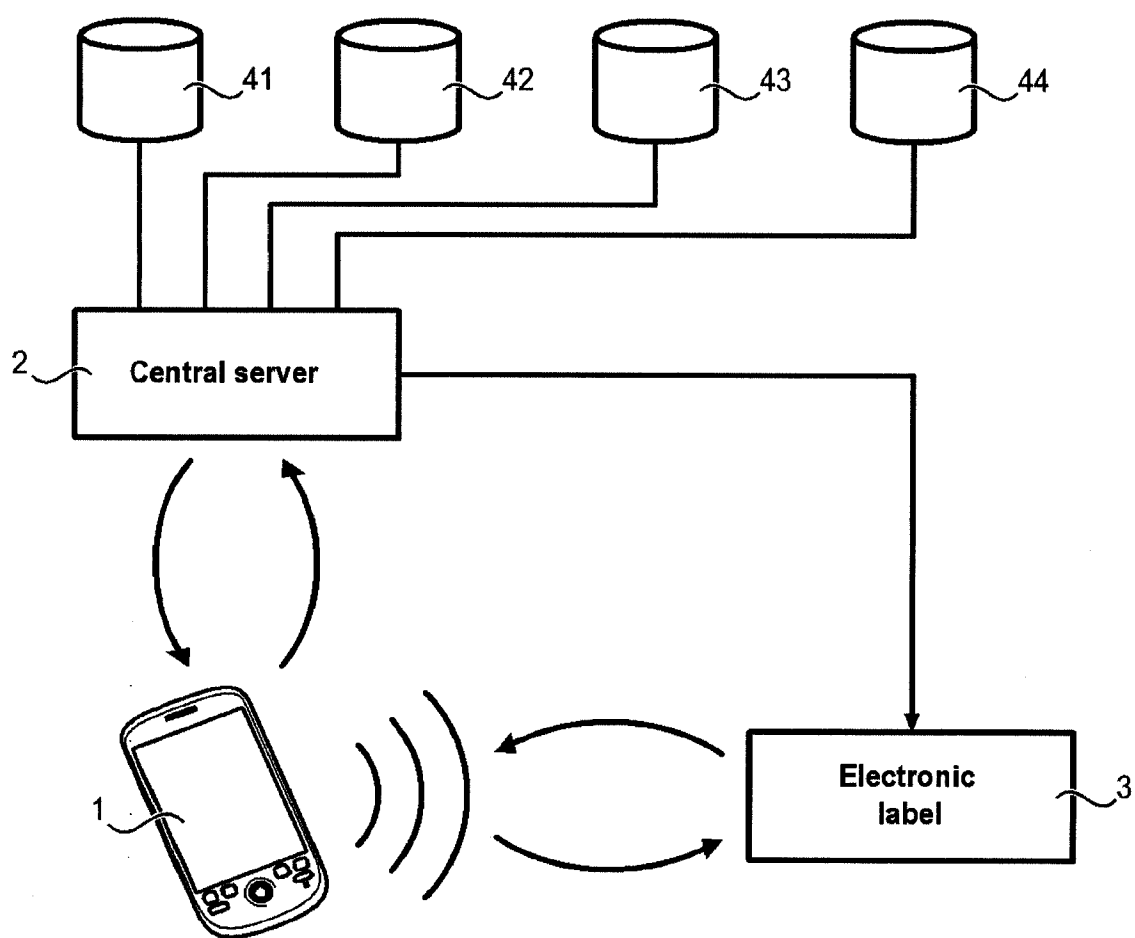
Privacy Act Statement

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

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

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

FIG. 1



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FIG. 2

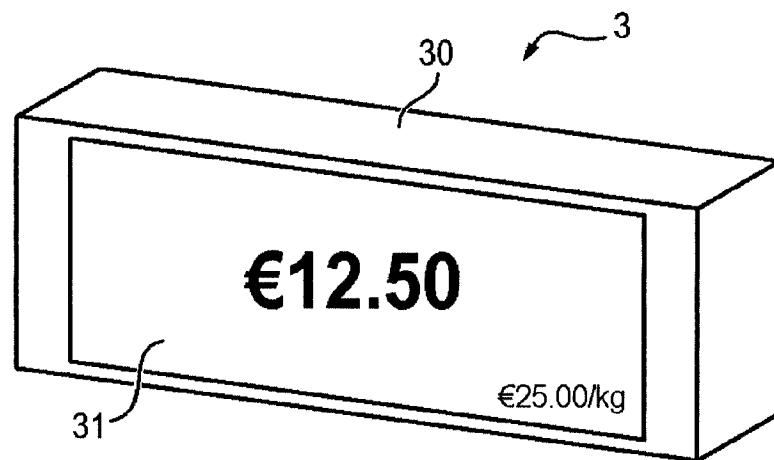


FIG. 3

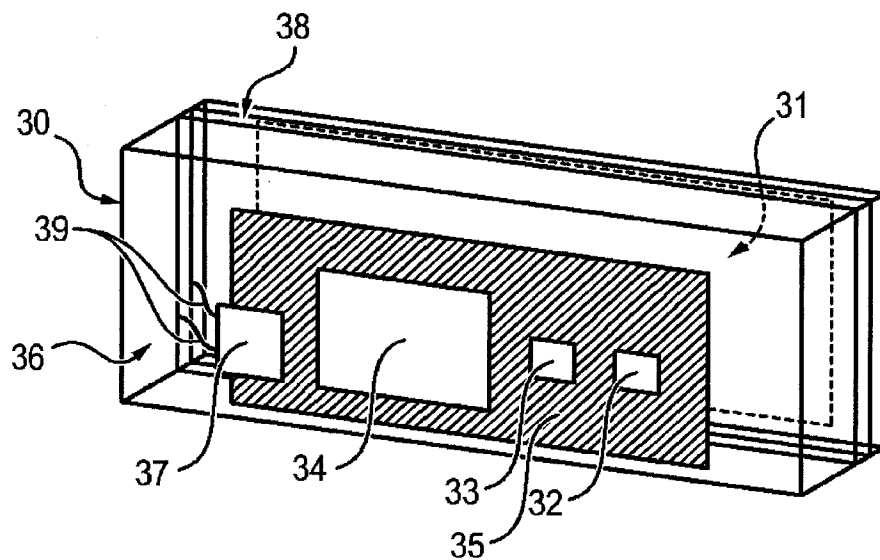
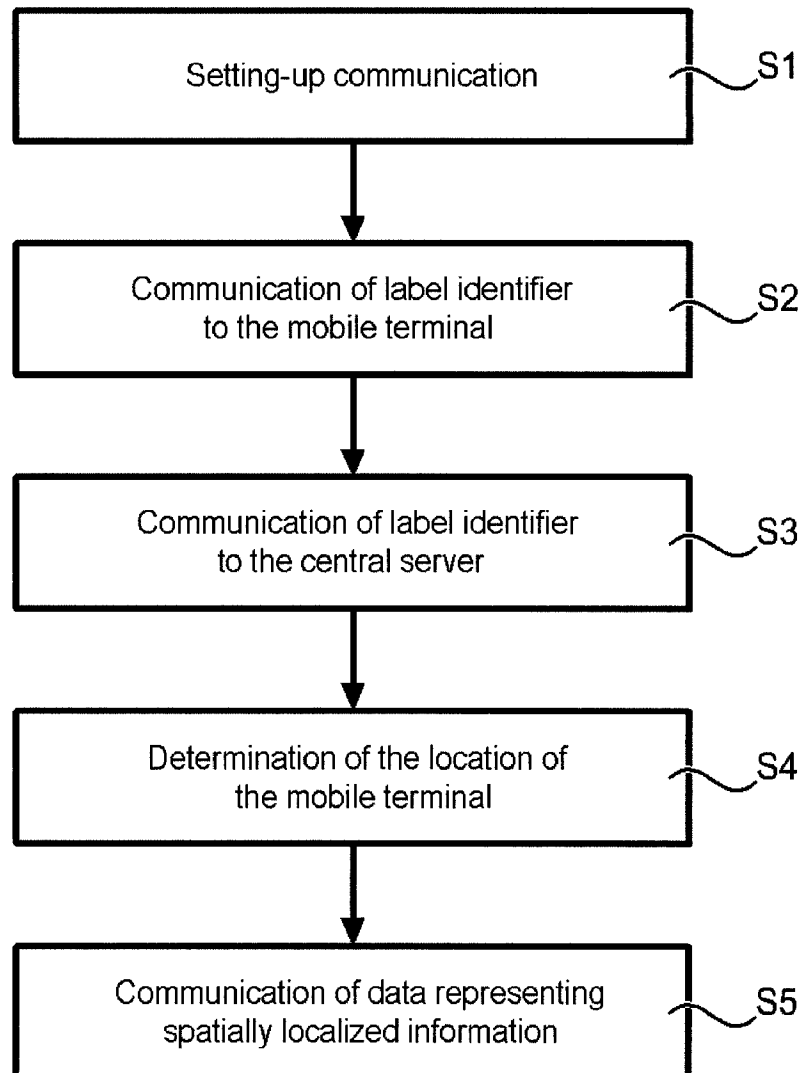


FIG. 4



DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN ADS		Attorney Docket Number: REGIM-517
Title of invention	SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION	
As the below named inventor(s), I/We hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ filed on _____ The above-identified application was made or authorized to be made by me/us. I/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		
FULL NAME OF INVENTOR(S) Inventor one: <u>Philippe Bottine</u> Date: <u>01/24/2019</u> Signature:  WARNING: According to 37 C.F.R. § 1.63(c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in §1.56." ☐ Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.		

DECLARATION FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: <u>François Robin</u> Signature: _____	Date: <u>01/27/2019</u>
Inventor three: _____ Signature: _____	Date: _____
Inventor four: _____ Signature: _____	Date: _____
Inventor five: _____ Signature: _____	Date: _____
Inventor six: _____ Signature: _____	Date: _____
Inventor seven: _____ Signature: _____	Date: _____
Inventor eight: _____ Signature: _____	Date: _____
Inventor nine: _____ Signature: _____	Date: _____
Inventor ten: _____ Signature: _____	Date: _____
Inventor eleven: _____ Signature: _____	Date: _____
Inventor twelve: _____ Signature: _____	Date: _____

SYSTEM AND METHOD FOR COMMUNICATING SPATIALLY ORGANIZED INFORMATION

GENERAL TECHNICAL FIELD AND BACKGROUND OF THE INVENTION

[0001] The present invention generally concerns the display of information in a sales area.

[0002] The display of information relating to items offered for sale in a sales area is generally obtained using labels which, in particular, display the price of the item with which a label is associated and other information such as price per weight, *etc.*

[0003] The need to provide a display of updated information has warranted the installing in numerous sales areas of electronic labels having a screen on which the display of information is remote controlled.

[0004] The usefulness of such systems for display shelving at sites such as supermarkets, hypermarkets or any other sales area, is essentially to allow consumers to be presented with a price for each item on sale, this price reliably corresponding to the price such as indicated in the central file of the site, *i.e.*, to the price such as will effectively be charged at the check-out.

[0005] Another advantage of these known systems is to allow automated price changes to be made within much shorter time periods than with manual display, whether for special offer periods at the site for all or some of the items on sale, to reflect price changes, to face inflationary situations during which very frequent prices increases must be made, *etc.*

[0006] Also, in matters of price displays, there are numerous constraints in particular legal constraints regarding the type of displayed prices (unit price, special offer price, *etc.*), which must be heeded by electronic systems in the same manner as for paper displays.

[0007] Therefore electronic label systems, although they are tending to become increasingly more sophisticated over time, nonetheless remain relatively rigid regarding the different display possibilities, and regarding the time and spatial organization of these different possibilities.

[0008] In addition, these electronic labels only allow the display of information relating to the item with which each one is associated, and moreover this information is generally restricted to the price displayed by the labels.

[0009] Additionally, consumers are currently left to fend for themselves in a sales area providing information relating solely to the items on sale. Consumers must browse through this

information to find relevant data. In a sales area generally having several thousand items on offer, finding the suitable item may prove to be most complicated.

[0010] Furthermore with the emergence of electronic trade, consumers have become accustomed to information specifically given for their intention. Yet the display of information such as currently found in sales areas does not offer any interaction with consumers.

[0011] There are currently no means of disseminating information specifically intended for a consumer and related to the consumer's position in a store, or even related to a product specific to this consumer.

DESCRIPTION OF THE INVENTION

[0012] The present invention therefore sets out to propose means for providing consumers with spatially localized information, in relation to the place and context of a consumer, which complements the information already visually available in a sales area. A further objective is to be able to provide consumers at the point of sale with information that is specifically intended and personalized for this consumer.

[0013] For this purpose, according to a first aspect a method is proposed for communicating data, representing spatially localized information, to a mobile terminal in relation to the location of said mobile terminal in a sales area equipped with a distributed series of electronic labels, each electronic label being identified by a single label identifier, said method comprising the steps in which:

- a mobile terminal sets up a communication via radio-frequency with a radio-frequency peripheral of an electronic label;
- the radio-frequency peripheral of said electronic label communicates to said mobile terminal a label identifier of said electronic label;
- the mobile terminal communicates said label identifier to a central server;
- the central server determines the location of said mobile terminal from the label identifier of said electronic label;
- the central server communicates data to the mobile terminal representing spatially localized information associated with the location of said mobile terminal.

[0014] According to the first aspect, the invention is advantageously but optionally complemented by the following characteristics taken alone or in any technical possible combination thereof:

- the radio-frequency peripheral of the electronic label has a communication range of less than 20 cm;
- the setting-up of the communication between the mobile terminal and the radio-frequency peripheral comprises the steps in which:
 - a user brings the mobile terminal close to the radio-frequency peripheral of the electronic label, so that the radio-frequency peripheral is within the range of the electromagnetic waves emitted by the mobile terminal;
 - said radio-frequency peripheral is activated by the energy of the electromagnetic waves emitted by the mobile terminal in order to set up communication via radio-frequency between the radio-frequency peripheral of the electronic label and the mobile terminal;
- the central server determines the location of said mobile terminal from the identifier of said electronic label by means of data from a planogram associating a location with the label identifier;
- the communication between the central server and the mobile terminal is set up via the internet;
- the data representing spatially localized information associated with the location of said mobile terminal take into account data specific to the user of the mobile terminal previously stored in a database accessible via a communication network.

[0015] According to a second aspect, a communication system is also proposed to communicate localized data within a sales area, comprising:

- a mobile terminal capable of communicating with a central server;
- a series of electronic labels distributed throughout the sales area, each electronic label being identified by a unique label identifier, in which an electronic label of said series of electronic labels also comprises a radio-frequency peripheral with which the mobile terminal is able to set up a communication to acquire the label identifier of said label, and the system is configured to implement the method according to the first aspect.

[0016] The invention according to the second aspect is advantageously but optionally complemented by the following characteristics taken alone or in any possible technical combination thereof:

- said electronic label also comprises

- a radio-frequency communication module to receive data representing item-related information originating from a central server;
 - a memory to store said data;
 - a microcontroller to control the display of information relating to an item;
 - a display screen to display said item-related information;
- the radio-frequency peripheral of the electronic label comprises an antenna and an electronic chip of NFC or RFID type;
- the chip and the antenna are arranged at different points of the electronic label, connections ensuring the link between the antenna and the chip;
- the chip is connected to a microcontroller of the electronic label, and the antenna is arranged on or in a case inside which said microcontroller is housed;
- the mobile terminal is adapted to transmit data to the electronic label via the radio-frequency peripheral of said electronic label.

PRESENTATION OF THE FIGURES

[0017] Other characteristics, objectives and advantages of the invention will become apparent from the following description which is solely illustrative and non-limiting, and is to be read with reference to the appended drawings in which:

[0018] Figure 1 is a schematic illustrating the system according to one possible embodiment of the second aspect of the invention;

[0019] Figure 2 is a schematic illustrating a front view of an electronic label of a system according to one possible embodiment of the second aspect of the invention;

[0020] Figure 3 is a rear transparency view of an electronic label of a system according to one possible embodiment of the second aspect of the invention;

[0021] Figure 4 is a schematic illustrating the implementing of the method according to the first aspect of the invention.

DETAILED DESCRIPTION

[0022] Figure 1 is an illustrative but non-limiting depiction of a communication system to communicate data representing spatially localized information in a sales area, corresponding to one possible embodiment of the invention.

[0023] The illustrated system comprises a mobile terminal 1 capable of communicating with a central server 2. This mobile terminal 1 is preferably provided with data display means, such as a screen, intended for a user of said mobile terminal 1.

[0024] Communication between the mobile terminal 1 and the central server 2 can be set up via any, at least partly wireless, communication network in particular via a wireless network of WIFI or 3G type. Communication can therefore be set up through the Internet link to which the central server 2 is connected.

[0025] To facilitate this communication, the sales area may be provided with WIFI terminals setting up a connection between the mobile terminal 1 and the internet network to which the central server 2 is connected.

[0026] A common example of said mobile terminal 1 is a mobile telephone of smartphone type, which offers suitable connection and data processing possibilities. In addition, the generalization of this type of telephone enables a large number of consumers to use their own mobile terminal 1. Other mobile terminals can be used provided they meet the requirements of communicability with the central server and the capability to display information to the user thereof. For example, a tablet computer can be used as mobile terminal 1.

[0027] The system also comprises a series of electronic labels distributed throughout the sales area. The labels have strong spatial density, typically about ten labels/m² on average, this varying to a large extent.

[0028] Each electronic label 3 is identified by a unique label identifier particular to it. This label identifier therefore allows unambiguous identification of a single unique label within the sales area.

[0029] Figures 2 and 3 illustrate an example of an electronic label 2 according to the invention. Said electronic label comprises a display screen 31 to display information relating to an item with which it is associated. Typically, and as illustrated in Figure 2, this information comprises the price of the item, and other information usually available in a sales area, *e.g.*, the price per kilogram of a food product. The electronic label also comprises a case 30 in plastic inside which the functional constituents of the electronic label 3 are housed.

[0030] In particular, the electronic label 3 comprises a radio-frequency communication module 32 to receive data representing information relating to an item and derived from a central station, a memory 33 to store said data and a microcontroller 34 to control the display of

information relating to the item. These different functional constituents are arranged on a printed circuit board 35 housed in the case 30.

[0031] The electronic label 3 of said series of electronic labels also comprises a radio-frequency peripheral 36 with which the mobile terminal 1 is able to set up a communication to acquire the label identifier of said electronic label 3.

[0032] The radio-frequency peripheral 36 of the electronic label 3 comprises an antenna 38 and an electronic chip 37 of NFC type (Near Field Communication) or RFID type (Radio-Frequency Identification).

[0033] A radio-frequency peripheral of NFC type operates at a frequency of 13.56 Mhz similar to a radio-frequency peripheral of RFID HF type.

[0034] A radio-frequency peripheral of NFC type corresponds to the ISO 14443 protocol, which is highly secure with encrypting. NFC communication is tending to be become widespread in personal mobile terminals such as mobile telephones and therefore offers the advantage of massive deployment.

[0035] The application thereof to electronic labels 3 does not require a high level of security which means that a radio-frequency peripheral of RFID HF type (ISO 15693 protocol) is fully adapted to this use and its low cost makes it attractive.

[0036] Mobile terminals equipped with NFC did not initially support the ISO 14443 protocol but recent appliances are mostly bi-modal and future developments are expected to evolve towards bi-modality.

[0037] Preferably, the chip 37 and the antenna 38 are arranged at different points of the electronic label 3, interconnects 39 ensuring the link between the antenna 38 and the chip 37.

[0038] More preferably, the chip 37 is connected to the microcontroller 34 of the electronic label 3 and the antenna 38 is arranged on or in the case 30 inside which said microcontroller 34 is housed. Further preferably, the antenna 38 is arranged on the front face side of the electronic label 3, towards the display screen 31, whilst the electronic chip 37 is arranged on the printed circuit board 35 on the back face side of the electronic label 3.

[0039] The integration of a radio-frequency peripheral 36 grouping together a chip and antenna on one same carrier is not desirable on the front face of the electronic label 3 since it is detrimental to maximization of the display area of the display screen 31, in particular to allow dense arranging of electronic labels 3 on aisle displays especially for items of small size.

[0040] In addition, the connections between the electronic chip 37 and the microcontroller 34 may be complex and difficult to obtain industrially at low cost. The chip 37 is therefore preferably implanted on the printed circuit board thereby facilitating the connection thereof to the microcontroller 34.

[0041] However, the positioning of the antenna inside on the back face next to the chip 37 would reduce distance and reading reliability since reading would then have to take place through the display screen 31 of the electronic label 3 (typically having a thickness of 1 cm) and the electromagnetic disturbance caused by the printed circuit board.

[0042] It is therefore preferable to separate the antenna 38 from the chip 37. The chip 37 is then preferably implanted on the printed circuit board, thereby facilitating the connection thereof to the microcontroller 34.

[0043] The antenna 38 is therefore preferably integrated in the plastic case 30 towards the front part thereof, preferably around the part reserved for the display screen 31 and over-molded during injection at the time of manufacture of the case 30. The size of the antenna 38 can be maximized thereby allowing the communication distance to be increased.

[0044] However, in all cases, this communication distance with the radiofrequency peripheral 36 must be chosen to be relatively short, less than 20 cm, and further preferably less than 10 cm from the antenna 38.

[0045] Preferably, the mobile terminal 1 is adapted to transmit data to the electronic label 3 via the radio-frequency peripheral 36 of said electronic label 3. The display of the electronic label 3 can then be updated by the mobile terminal 1.

[0046] The system for communication data representing spatially localized information within a sales area is configured to implement the method according to the first aspect of the invention, of which one possible embodiment will be described.

[0047] The method allows the communication of data, representing spatially localized information, to the mobile terminal 1 in relation to the location of said mobile terminal 1 within a sales area equipped with a distributed series of electronic labels 3, each electronic label 3 being identified by a unique label identifier particular to it.

[0048] At first, the mobile terminal 1 sets up a communication via radio-frequency with a radio-frequency peripheral 36 of an electronic label 3 (Step 51).

[0049] To do so, a user brings the mobile terminal 1 close to the radio-frequency peripheral 36 of the electronic label 3, so that the radio-frequency peripheral 36 comes within the range of the electromagnetic waves emitted by the mobile terminal 1.

[0050] The radio-frequency peripheral 36 is then activated by the energy of the electromagnetic waves emitted by the mobile terminal 1 to set up communication via radio-frequency with the radio-frequency peripheral 36 of the electronic label 3.

[0051] The radio-frequency peripheral 36 of said electronic label 3 then communicates to said mobile terminal 1 a label identifier of said electronic label 3 (Step 52). This label identifier can be communicated alone or accompanied by other information or else as part of communicated data which are at least partly generated from said identifier and which allow identification of the electronic label 3 in the sales area.

[0052] The mobile terminal mobile 1 communicates said label identifier to a central server 2 (Step 53). Similarly, the communicated data must allow identification of the electronic label 3 in the sales area and need not necessarily assume the form of solely the label identifier. Therefore, the data exchanged between the mobile terminal 1 and the central server 2 may be the same or else different from the data exchanged between the electronic label 3 and the mobile terminal 1; the only requirement being the possibility of identifying the electronic label 3 in the sales area.

[0053] The central server 2 determines the location of said mobile terminal 1 from the label identifier of said electronic label 3 (Step 54). The central server 2 determines the location of said mobile terminal 1 from the identifier of said electronic label 3 using the data of a planogram associating a location with the label identifier. A planogram lists the locations of all the electronic labels 3 and of the items on sale in a sales area.

[0054] Up to 10% of items in a sales area can be present at several separate points and hence sole knowledge of the item, *e.g.*, through an item identifier such as a barcode or Electronic Product Code (EPC) does not allow the determining of the precise location of the mobile terminal 1.

[0055] On the other hand, the uniqueness of the label identifier and of the location associated with each electronic label 3 allows unambiguous determination of the location of the electronic label 3 from its identifier, and as a result it is possible to determine the location of the mobile terminal 1.

[0056] The mobile terminal 1 is effectively positioned in the immediate vicinity of the electronic label 3 from which it has acquired the identifier, so that the locating of the label allows determination of the location of the mobile terminal 1.

[0057] The communication range of the radio-frequency peripheral 36 is preferably less than 20 cm, more preferably less than 10 cm, and is even 5 cm. A relatively short range firstly ensures matching between the location of the electronic label 3 and the mobile terminal 1 and secondly allows interference to be limited between electronic labels when they are positioned close to one another.

[0058] In addition, a short range requires deliberate action by the user of the mobile terminal 1 to set up communication between the mobile terminal 1 and the electronic label 3. The user then has no reason to fear for the protection of private life and since the system proves to be little intrusive it cannot easily be diverted from its primary vocation set forth in this description.

[0059] Once the locating of the mobile terminal 1 has been determined, the central server 2 communicates data to the mobile terminal 1 which represent spatially localized information associated with the location of said mobile terminal 1 (Step 55).

[0060] This data representing spatially localized information associated with the location of said mobile terminal 1 may take into account data specific to the user of the mobile terminal 1, previously stored in a database 41, 44 accessible via a communication network.

[0061] For example, one database 41 may comprise a shopping list previously defined by the user, and the database 44 may comprise health data entered by the user by means of which information on items can be matched with personal information, for example medical contra-indications such as the presence of allergens specified by the user.

[0062] Other databases 42, 43 can be used and may in particular comprise the planogram, information relating to items, relating to the sales area, *etc.*

[0063] Therefore the electronic label can be used as background sensor since it allows the context of the mobile terminal to be determined with which it is in communication.

[0064] It is hence possible to make provision for example for a web application to deliver data to the mobile terminal concerning the item in whose vicinity the mobile terminal - and therefore the user thereof - is positioned, in particular technical datasheets, cooking recipes, suggestions of substitution products or related special offers.

[0065] The user may also benefit from a web application taking into account the items whose associated label identifiers have been acquired by the mobile terminal 1, for example to display the total price of said items during a shopping session.

[0066] It is also possible to provide a web application capable of updating a shopping list, as and when the label identifiers are acquired associated with items on this shopping list. Knowing the location of the mobile terminal 1, it is then possible to indicate to the user the direction of an item on the shopping list and thereby plan the circuit to be followed by the user within the sales area.

[0067] More generally, knowledge of the location of the mobile terminal 1, and hence of the user thereof, allows said mobile terminal 1 to be provided with spatially localized information such as the path to be followed to reach a specific item.

[0068] The ability to locate via electronic labels 3 allows fine-granularity to an extent never reached in locating systems of GPS type. Each meter of aisle shelving for product display having several labels 3 at different heights, it is even possible to locate the height of the mobile terminal 1.

[0069] For example, a user when searching for a particular item, places his/her mobile terminal 1 close to an electronic label 3. The implementing of the method according to the invention allows information to be communicated to the mobile terminal 1 relating to the place of the sought-after item, in relation to the mobile terminal 1. For example, an arrow in a top/right diagonal direction with an indication of the distance, *e.g.*, 50 cm, indicates that the item desired by the user is to the top right of the current position of the mobile terminal 1 at a distance of 50 cm therefrom.

[0070] It is also possible to carry out secure payment using the mobile terminal 1 by reading the identifiers of the electronic labels corresponding to the items the user wishes to purchase. All that is required is communication with a payment system when the user leaves the sales area.

[0071] The invention also enables users to be offered a sales area having optimized configuration. The manager of the sales area may have knowledge of the specific movements and behavior of users of mobile terminals 1 and can therefore determine an optimized configuration of the sales area as a function of such data.

[0072] According to one optional embodiment, the display of the electronic label 3 can be modified during communication with the mobile terminal 1. For example, provision can be made

for more illuminated display or for display of particular data if a radio-frequency peripheral 36 communicates with a mobile terminal 1.

[0073] Preferably, the mobile terminal is adapted to transmit data to the electronic label 3 via the radio-frequency peripheral 36 of said electronic label 3, in particular to update data and optionally the position of the electronic label when a mobile terminal 1 is used by an employee of the sales area.

CLAIMS

1. A method for communicating spatially localized information to a mobile terminal, the method being performed by a central server configured to access a planogram associating a plurality of unique identifiers of radio-frequency peripherals with a plurality of locations within a predetermined area, each of the plurality of locations being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area, and each of the plurality of locations being associated one-to-one with a corresponding unique identifier, the method comprising:

receiving a communication from a mobile terminal, the communication comprising a unique identifier received by the mobile terminal from a radio-frequency peripheral located in the predetermined area, the unique identifier being particular to the radio-frequency peripheral, wherein the radio-frequency peripheral includes an antenna and an electronic chip configured for near-field communication, and is configured to be activated by the mobile terminal when the radio-frequency communication peripheral is within a communication range of the mobile terminal, wherein the communication range is less than twenty centimeters;

determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location; and

transmitting to the mobile terminal spatially localized information associated with the location of the mobile terminal.

2. The method according to claim 1, further comprising:

when the mobile terminal is positioned relative to the radio-frequency communication peripheral within the communication range, energy of electromagnetic waves emitted by the mobile terminal activating the radio-frequency communication peripheral, thereby setting-up a radio-frequency communication between the mobile terminal and the radio-frequency peripheral, wherein the communication range is a range of the electromagnetic waves emitted by the mobile terminal.

3. The method according to claim 1, wherein the central server receiving the communication from the mobile terminal is via the Internet.

4. The method according to claim 1, wherein the spatially localized information is further associated with account data specific to the user of the mobile terminal previously stored in a database accessible to the central server via a communication network.

5. A system for communicating spatially localized information to a mobile terminal, the system comprising:

a central server configured to access a planogram associating a plurality of unique identifiers of radio-frequency peripherals with a plurality of locations within a predetermined area, each of the plurality of locations being defined by a vertical and horizontal position within a vertical plane of the predetermined area, and each of the plurality of locations being associated one-to-one with a corresponding unique identifier;

a mobile terminal configured to communicate with the central server; and

a plurality of radio-frequency peripherals distributed throughout the predetermined area, wherein each radio-frequency peripheral includes an antenna and an electronic chip configured for near-field communication, and is configured to be activated by the mobile terminal when the radio-frequency communication peripheral is within a communication range of the mobile terminal, wherein the communication range is less than twenty centimeters,

wherein the central server is configured to:

receive a communication from a mobile terminal, the communication comprising a unique identifier received by the mobile terminal from a radio-frequency peripheral located in the predetermined area, the unique identifier being particular to the radio-frequency peripheral;

determine a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier of the received communication in the planogram, the location of the mobile terminal comprising the vertical and horizontal position of said location; and

transmit to the mobile terminal spatially localized information associated with the location of the mobile terminal.

6. The system according to claim 5, wherein at least one radio-frequency peripheral is an electronic label which comprises:

a radio-frequency communication module configured to receive data representing information relating to an item from a central server;

a memory to store said data;

a microcontroller to control the display of information relating to an item;

a display screen to display said item-related information.

7. The system according to claim 5, wherein the chip and the antenna are arranged at different points of the radio-frequency peripheral, and wherein the radio-frequency peripheral comprises connections configured to ensure a communications link between the antenna and the chip.

8. The system according to claim 7, wherein the chip is connected to a microcontroller of the radio-frequency peripheral, and wherein the antenna is arranged on or within a case inside which the microcontroller is housed.

9. The system according to claim 6, wherein the mobile terminal is adapted to transmit data to the electronic label via the radio-frequency communication module of said electronic label.

ABSTRACT OF THE DISCLOSURE

A method for communicating data representing spatially organized information, performed by a central server RF-frequency peripherals with locations within a predetermined area, each location being defined by a vertical and horizontal position within a plane perpendicular to a floor of the predetermined area, each location being associated with a corresponding unique identifier. The method may involve receiving a communication from a mobile terminal including a unique identifier received by the mobile terminal from an RF peripheral located in the predetermined area, determining a location of the mobile terminal within the predetermined area based on the location associated with the unique identifier, and transmitting to the mobile terminal spatially localized information associated with the location. The unique identifier may be particular to an RF peripheral including an antenna and an electronic chip configured for NFC to be activated by the mobile terminal when the peripheral is within a communication range.