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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/410,599	03/02/2012	Abel AVELLAN	113776.00126

CONFIRMATION NO. 9863

POA ACCEPTANCE LETTER

33356
SoCAL IP LAW GROUP LLP
310 N. WESTLAKE BLVD. STE 120
WESTLAKE VILLAGE, CA 91362



Date Mailed: 09/07/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/01/2017.

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.

/ttran/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/410,599	03/02/2012	Abel AVELLAN	113776.00126

27557
BLANK ROME LLP
1825 Eye Street NW
WASHINGTON, DC 20006-5403

CONFIRMATION NO. 9863
POWER OF ATTORNEY NOTICE



Date Mailed: 09/07/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/01/2017.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(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.

/ttran/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
13/410,599	03/02/2012	Abel AVELLAN	G235.P17921	46836

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 09/07/2017 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

✕ Applicant changing to regular undiscounted fee status.

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

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

Signature:	/jonathan pearce/
Name:	Jonathan Pearce
Registration Number:	60972

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☒

Practitioners associated with Customer Number:

33356

OR

☐

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

Name	Registration Number

Name	Registration Number

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

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

☒

The address associated with Customer Number:

33356

OR

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

Assignee Name and Address: Global Eagle Entertainment Inc.
6100 Center Drive, Suite 1020
Los Angeles, CA 90045

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

SIGNATURE of Assignee of Record

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

Signature	<i>Stephen Chu</i>	Date	7/5/2017
Name	Stephen Chu	Telephone	
Title	Assistant General Counsel		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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.

"FEE ADDRESS" INDICATION FORM

Address to:
Mail Stop M Correspondence
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fax to:
571-273-6500

- OR -

INSTRUCTIONS: The issue fee must have been paid for application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application. **When to check the first box below:** If you have a Customer Number to represent the fee address. **When to check the second box below:** If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:



Customer Number:

33356**OR**

The attached Request for Customer Number (PTO/SB/125) form.

PATENT NUMBER (if known)	APPLICATION NUMBER
8954600	13410599

Completed by (check one):



Applicant/Inventor

/jonathan pearce/

Signature



Attorney or Agent of record 60,972
 (Reg. No.)

Jonathan Pearce

Typed or printed name



Assignee of record of the entire interest. See 37 CFR 3.71.
 Statement under 37 CFR 3.73(b) is enclosed.
 (Form PTO/SB/96)

805-230-1350

Requester's telephone number



Assignee recorded at Reel _____ Frame _____

08/30/2017

Date

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



* Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.363. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND COMPLETE D FORMS TO THIS ADDRESS.**
SEND TO: Mail Stop M Correspondence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	30230697
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Jonathan Parker Pearce
Filer Authorized By:	
Attorney Docket Number:	113776.00126
Receipt Date:	01-SEP-2017
Filing Date:	02-MAR-2012
Time Stamp:	17:05:17
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		G235-P17921- RcaFiled-08-30-2017.pdf	344698	yes	2
			8df6cb2f2d40cad7e98839989312436dcb8 3405a		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Miscellaneous Incoming Letter	1	1
	Application Data Sheet	2	2

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73	G235-P17921-SOO-Filed-08-30-2017.pdf	122322	no	3
			179dc7f22fad8ebd9f0ca4b2c06eeee15c8d8790		

Warnings:

Information:

3	Power of Attorney	G235-GPOA.pdf	71770	no	1
			99ff0adfc55112a324f03edba0b9d26b47ead69b		

Warnings:

Information:

4	Change of Address	G235-P17921-FeeAddressFormFiled-08-30-2017.pdf	311810	no	2
			bdd7e30b2258e27352e1ff0e1d3ead1e85653d55		

Warnings:

Information:

Total Files Size (in bytes):			850600
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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 13/410,599 Confirmation No. 9863
First Named Inventor : AVELLAN et al.
Filed : 03/02/2012
Docket No. : G235.P17921US
Customer No. : 33356

Request to Change Applicant Information
Under Statement 1.46(b)

The undersigned hereby requests a change of the applicant's information. Please accept the attached replacement Application Data Sheet ("ADS") which reflects the present ownership of the application by the assignee of record. As a result, the assignee, rather than EMC SATCOM TECHNOLOGIES, INC., is now identified in the ADS as the Applicant. A Statement under 3.73(c) and a Power of Attorney document are also submitted along with this replacement ADS.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 503456. Please consider this paper to be a petition for extension of time, if necessary.

Respectfully submitted,

August 30, 2017

/jonathan pearce/
Jonathan Pearce, Reg. No. 60,972

SoCal IP Law Group LLP
310 N. Westlake Blvd., Suite 120
Westlake Village, CA 91362
Telephone: 805/230-1350
Facsimile: 805/230-1355
email: uspto@socalip.com

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~443776-00126~~ <u>G235.P17921US</u>
	Application Number	<u>13/410,599</u>
Title of Invention SYSTEM AND METHOD FOR ZERO LATENCY BROWSING		

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country ¹	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☐ Yes ☐ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Remove

Assignee 1

If the Assignee is an Organization check here. ☒

Organization Name EMC GalCom Technologies, Inc. GLOBAL EAGLE ENTERTAINMENT INC.

Mailing Address Information:

Address 1	~~777 Brickell Avenue, Suite 1150~~ <u>6100 Center Drive, Suite 1020</u>		
Address 2			
City	~~Miami~~ <u>Los Angeles</u>	State/Province	~~FL~~ <u>CA</u>
Country ¹	US	Postal Code	~~33131~~ <u>90045</u>
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.

Add

Signature:

Signature	<u>/jonathan pearce/</u>	Date	<u>08/30/2017</u>
Name	<u>Jonathan Pearce</u>	Registration Number	<u>60972</u>

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.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: AVELLAN et al.Application No./Patent No.: 8954600 Filed/Issue Date: 02/10/2015Titled: SYSTEM AND METHOD FOR ZERO LATENCY BROWSINGGLOBAL EAGLE ENTERTAINMENT INC., a Corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: AVELLAN et al. To: EMC SATCOM TECHNOLOGIES, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 027797, Frame 0896, or for which a copy thereof is attached.2. From: EMC SATCOM TECHNOLOGIES, INC. To: EMC SATCOM TECHNOLOGIES, LLCThe document was recorded in the United States Patent and Trademark Office at
Reel 039667, Frame 0547, or for which a copy thereof is attached.

[Page 1 of 2]

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: EMC SATCOM TECHNOLOGIES, LLC To: GLOBAL EAGLE ENTERTAINMENT INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 039857, Frame 0747, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

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

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

/jonathan pearce/

Signature

Jonathan Pearce

Printed or Typed Name

08/30/2017

Date

60,972

Title or Registration Number

Privacy Act Statement

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

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

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



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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/410,599	02/10/2015	8954600	113776.00126	9863

27557 7590 01/21/2015
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

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):

Abel AVELLAN, Miami, FL;
Payam HERISCHI, Miami, FL;

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 applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

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

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

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.

27557 7590 10/09/2014
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

Certificate of Mailing or Transmission

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

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/410,599	03/02/2012	Abel AVELLAN	113776.00126	9863

TITLE OF INVENTION: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	01/09/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAILEY, THOMAS J	2452	709-231000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

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

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

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

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

1 Blank Rome LLP

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

EMC SATCOM TECHNOLOGIES, INC.

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

Miami, Florida

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

4a. The following fee(s) are submitted:

☒ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

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

☐ A check is enclosed.

☒ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 23-2185 (enclose an extra copy of this form).

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

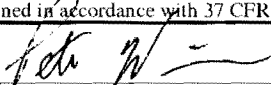
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

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

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

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

Authorized Signature



Date January 8, 2015

Typed or printed name Peter S. Weissman

Registration No. 40,220

Electronic Patent Application Fee Transmittal

Application Number:	13410599			
Filing Date:	02-Mar-2012			
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/Yolanda Ingram			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	2501	1	480	480

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

Electronic Acknowledgement Receipt

EFS ID:	21153414
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/Yolanda Ingram
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	08-JAN-2015
Filing Date:	02-MAR-2012
Time Stamp:	12:10:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$480
RAM confirmation Number	8224
Deposit Account	232185
Authorized User	WEISSMAN, PETER S

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

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

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)	11377600126_IFee.pdf	225945	no	1
			02c46f2aeeba0b15f987acd4b5033ddeb72b74b8		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30871	no	2
			1646da805955a0fb3f0882f593256f1605722c38		

Warnings:

Information:

Total Files Size (in bytes):			256816
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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.



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

NOTICE OF ALLOWANCE AND FEE(S) DUE

27557 7590 10/09/2014
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT

PAPER NUMBER

2452

DATE MAILED: 10/09/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/410,599

03/02/2012

Abel AVELLAN

113776.00126

9863

TITLE OF INVENTION: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	01/09/2015

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

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

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

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.

27557 7590 10/09/2014
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

Certificate of Mailing or Transmission

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

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/410,599	03/02/2012	Abel AVELLAN	113776.00126	9863

TITLE OF INVENTION: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	01/09/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAILEY, THOMAS J	2452	709-231000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 1 _____ 2 _____ 3 _____
---	---

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

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

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

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

4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies _____	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).
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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.
13/410,599	03/02/2012	Abel AVELLAN	113776.00126	9863

27557 7590 10/09/2014
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT	PAPER NUMBER
----------	--------------

2452

DATE MAILED: 10/09/2014

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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 13/410,599	Applicant(s) AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	AIA (First Inventor to File) 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 RCE entered 9/18/2014.
☐ 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 1-4, 8-24, 26, 28-35, and 37. 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) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/THOMAS DAILEY/
Primary Examiner, Art Unit 2452

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

DETAILED ACTION

1. Claims 1-4, 8-24, 26, 28-35, and 37 are pending.

Allowable Subject Matter

1. Claims 1-4, 8-24, 26, 28-35, and 37 are allowed.
2. The following is an examiner's statement of reasons for allowance:
3. The prior art of record does not explicitly disclose or make obvious the claimed invention as a whole when interpreted in light of the Specification with particular emphasis on the amendments and Remarks dated 9/18/2014.
4. 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

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm. If attempts to reach the examiner by telephone are

Art Unit: 2452

unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas J Dailey/
Primary Examiner, Art Unit 2452

Issue Classification 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	

CPC						
Symbol					Type	Version
H04N		21	/	4782	F	2013-01-01
H04N		21	/	222	I	2013-01-01
H04N		21	/	2355	I	2013-01-01
H04N		21	/	44004	I	2013-01-01
H04N		21	/	6143	I	2013-01-01
H04N		21	/	6193	I	2013-01-01
H04N		21	/	643	I	2013-01-01
H04N		21	/	8126	I	2013-01-01
			/			
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			/			
			/			

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
		31	
(Assistant Examiner)	(Date)		
/THOMAS DAILEY/ Primary Examiner.Art Unit 2452	09/30/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

☐ Claims renumbered in the same order as presented by applicant															
☐ CPA															
☐ T.D.															
☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	14	17	28	33										
2	2	15	18	29	34										
3	3	16	19	30	35										
4	4	17	20		36										
	5	18	21	31	37										
	6	19	22												
	7	20	23												
5	8	21	24												
6	9		25												
7	10	22	26												
8	11		27												
9	12	23	28												
10	13	24	29												
11	14	25	30												
12	15	26	31												
13	16	27	32												

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	31	
/THOMAS DAILEY/ Primary Examiner.Art Unit 2452	09/30/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1



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 United States Patent and Trademark Office
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BIB DATA SHEET

CONFIRMATION NO. 9863

SERIAL NUMBER 13/410,599	FILING or 371(c) DATE 03/02/2012 RULE	CLASS 709	GROUP ART UNIT 2452	ATTORNEY DOCKET NO. 113776.00126		
APPLICANTS INVENTORS Abel AVELLAN, Miami, FL; Payam HERISCHI, Miami, FL; ** CONTINUING DATA ***** This application is a CON of 13/109,581 05/17/2011 ABN which claims benefit of 61/434,089 01/19/2011 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 03/15/2012						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/THOMAS J DAILEY/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY FL	SHEETS DRAWINGS 2	TOTAL CLAIMS 30	INDEPENDENT CLAIMS 4
ADDRESS BLANK ROME LLP WATERGATE 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037 UNITED STATES						
TITLE SYSTEM AND METHOD FOR ZERO LATENCY BROWSING						
FILING FEE RECEIVED 1335	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	579	differential video	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:24
L2	1885	725/110.ccls.	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:25
L3	23070	709/203.ccls.	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:25
L12	2	("6697850" "7130908").PN.	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L13	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L14	2	differential burst video	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L15	3	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L16	1	differential video transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L17	3	differential video transmission	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:27
L18	2	burst differential video	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:27
L19	579	differential video	US-PGPUB; USPAT	NEAR	ON	2014/09/30 10:27
L20	249	differential near3 video near3 (send\$5 or transmit\$5)	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L21	436	(gateway same (web or brows\$6) same (http) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L22	10	(gateway with (web or brows\$6) with (convert\$5 or compress\$5) same (image or video) with (send\$6))	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L23	10	L22 not L13	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L24	470	(gateway same (web or brows\$6) same (convert\$5 or compress\$5) same (image or video))	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L25	816	satellite same burst with transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L26	52	satellite same burst with transmission same video	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L27	2	"US 20120185785"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/09/30 10:27
L28	0	differential burst transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27

L29	2	differential burst with transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L30	3	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L31	36	action (tag or label) with (web page or webpage or website or web site)	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L32	406	(tag or label) with (web page or webpage or website or web site) same channel	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L33	11	(tag) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L34	0	(label) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L35	232	(web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L36	0	(web page or webpage or website or web site) with channel with (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L37	41	(web page or webpage or website or web site) same channel same (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
L38	404	L32 not L37	US-PGPUB; USPAT	ADJ	ON	2014/09/30 10:27
S5	2	("6697850" "7130908").PN.	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S6	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S7	0	differential burst video	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S8	1	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:15
S9	1	differential video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:18
S10	3	differential video transmission	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:18
S12	0	burst differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S13	481	differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S14	178	differential near3 video near3 (send\$5 or transmit\$5)	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:20
S17	305	(gateway same (web or brows\$6) same (http) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:21
S18	7	(gateway with (web or brows\$6) with (convert\$5 or compress\$5) same (image or video) with (send\$6))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:32
S19	7	S18 not S6	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:33

S20	339	(gateway same (web or brows\$6) same (convert\$5 or compress\$5) same (image or video))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 18:06
S21	717	satellite same burst with transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
S22	40	satellite same burst with transmission same video	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
S23	2	"US 20120185785"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2012/12/01 16:57
S24	0	differential burst transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/01 17:38
S25	2	differential burst with transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/01 17:38
S26	3	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:02
S27	27	action (tag or label) with (web page or webpage or website or web site)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:12
S28	266	(tag or label) with (web page or webpage or website or web site) same channel	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:18
S29	8	(tag) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:19
S30	0	(label) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:22
S31	148	(web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:24
S32	0	(web page or webpage or website or web site) with channel with (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:25
S33	21	(web page or webpage or website or web site) same channel same (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:25
S34	264	S28 not S33	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	23167	709/203.ccls.	US-PGPUB; USPAT; UPAD	NEAR	ON	2014/09/30 10:25
L5	1894	725/110.ccls.	US-PGPUB; USPAT; UPAD	NEAR	ON	2014/09/30 10:25
L6	0	(4 or 5) and (differential burst video).clm.	US-PGPUB; USPAT; UPAD	NEAR	ON	2014/09/30 10:26
L7	2	(differential burst video).clm.	US-PGPUB;	NEAR	ON	2014/09/30

			USPAT; UPAD			10:27
L8	1	"13410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/09/30 10:27
L9	18	"410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/09/30 10:27
L10	2	(avellan and herischi).in.	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/09/30 10:27
L11	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/09/30 10:27
S1	0	"13410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S2	14	"410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S3	0	(avellan and herischi).in.	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:06
S4	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:19

9/ 30/ 2014 10:32:49 AM
C:\ Users\ tdailey\ Documents\ EAST\ Workspaces\ 13-410599.wsp

Search Notes 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	231	9/30/2014	TJD
725	110	9/30/2014	TJD

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	5/16/2012	TJD
Keyword searching in EAST, see attached search history	5/16/2012	TJD
Keyword searching in EAST for amended subject matter, see attached search history	12/2/2012	TJD
Keyword searching in EAST for newly added claims, relied upon previously cited art for others	8/26/2013	TJD
Updated search, relied upon previously cited arts.	3/18/2014	TJD
Updated search	9/30/2014	TJD
NPL search utilizing Google	9/30/2014	TJD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
709	231	9/30/2014	TJD
725	110	9/30/2014	TJD

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	13410599	Filing Date	2012-03-02	Docket Number (if applicable)	113776.00126	Art Unit	2452
First Named Inventor	Abel AVELLAN			Examiner Name	T. J. Dailey		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____☐ Other _____☒ Enclosed☒ Amendment/Reply☐ Information Disclosure Statement (IDS)☐ Affidavit(s)/ Declaration(s)☒ Other

Three month Extension of Time

MISCELLANEOUS☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)☐ Other _____**FEES****The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 23-2185**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**☒ Patent Practitioner Signature☐ Applicant Signature

Doc code: RCEX

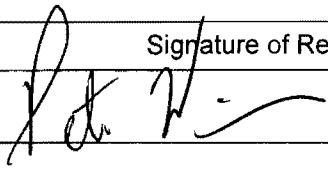
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature		Date (YYYY-MM-DD)	2014-09-18
Name	Peter S. Weissman	Registration Number	40220

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 113776.00126	
Application Number 13/410,599-Conf. #9863		Filed March 2, 2012	
For SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
Art Unit 2452		Examiner T. J. Dailey	

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):

	<u>Fee</u>	<u>Small Entity Fee</u>	<u>Micro Entity Fee</u>	
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____
☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ 700.00
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____

☒ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☒ Payment by credit card.

☐ 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 23-2185.

☒ 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.

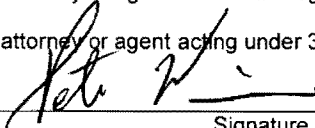
I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration number 40,220.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.



 Signature
 Peter S. Weissman
 Typed or printed name

September 18, 2014

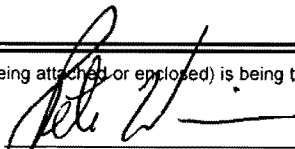
 Date
 (202) 772-5800
 Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☐ * Total of 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 CFR § 1.6(a)(4).

Dated: September 18, 2014

Signature:  (Peter S. Weissman)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	)	Confirmation No. 9863
	)	
Abel AVELLAN	)	Group Art Unit: 2452
	)	
Serial No.: 13/410,599	)	Examiner: Thomas J. DAILEY
	)	
Filed: March 2, 2012	)	Atty. Dkt. No.: 113776.00126
	)	

For: SYSTEM AND METHOD FOR ZERO LATENCY
BROWSING

AMENDMENT

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

Sir:

In response to the Office Action dated March 20, 2014, kindly amend the above-identified patent application as follows:

Listing of Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 12 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a processing device configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data via satellite over a first satellite communication channel using a differential burst video transmission to no more than one of the plurality of second computers to display the captured data in the video frame format, to capture the second data from at least one of the plurality of first computers and to broadcast the second data via satellite over a second satellite communications channel different from the first communications channel to the plurality of second computers,

wherein the plurality of second computers includes a first plurality of second computers and a second plurality of second computers different from the first plurality of second computers, and wherein said processing device is further configured to receive requests for data from at least a portion of the first plurality of second computers and at least a portion of the second plurality of second computers, determine most frequently requested data for the first plurality of second

computers, determine most frequently requested data for the second plurality of second computers separate from determining the most frequently requested data for the first plurality of second computers, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data to the first plurality of second computers if it is determined that the requested data is not the most frequently requested data for the first plurality of second computers, transmit the captured requested data as first data to the second plurality of second computers if it is determined that the requested data is not the most frequently requested data for the second plurality of second computers, transmit the captured requested data as second data to the first plurality of second computers if it is determined that the requested data is the most frequently requested data for the first plurality of second computers, and transmit the captured requested data as second data to the second plurality of second computers if it is determined that the requested data is the most frequently requested data for the second plurality of second computers.

2. (Previously Presented) The system of claim 1, wherein the data is provided by the plurality of first computers in a first format, and said processing device captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format.

3. (Original) The system of claim 2, wherein the first format is an HTTP format.

4. (Previously Presented) The system of claim 2, wherein said processing device captures the entirety of the data to a video frame format.

5-7. (Cancelled)

8. (Previously Presented) The system of claim 1, wherein each of the plurality of first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals.

9. (Previously Presented) The system of claim 1, wherein the data is a web page and said processing device causes the plurality of second computers to display a virtual image of the web page.

10. (Previously Presented) The system of claim 1, wherein said processing device comprises a processor.

11. (Previously Presented) The system of claim 1, wherein further comprising a storage device for storing the captured data.

12. (Previously Presented) The system of claim 1, wherein said processing device comprises a processor in communication with a storage device and said processor stores the captured data in said storage device.

13. (Previously Presented) The system of claim 1, wherein the plurality of second computers are configured to receive a user input action command, and in response to the user

input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command.

14. (Original) The system of claim 13, wherein the location of the user input action command comprises an x coordinate and a y coordinate.

15. (Original) The system of claim 13, wherein the type of the user action input comprises a keyboard entry or a mouse entry.

16. (Original) The system of claim 13, wherein the user input action command comprises a mouse click, a scroll, or a typed key command.

17. (Previously Presented) The system of claim 13, wherein said processing device further receives the tag file and performs the user input action command on the plurality of first computers.

18. (Currently Amended) A system for presenting first and second web pages of at least one web server on a plurality of user computers remotely located from the at least one web server, wherein the plurality of user computers includes a first plurality of user computers and a second plurality of user computers different from the first plurality of user computers, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server in an HTTP format, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer via satellite over a first satellite communication channel, said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer via satellite over a second satellite communication channel different than the first satellite communication channel;

wherein said gateway processor is further configured to receive requests for data from at least a portion of the first plurality of user computers and at least a portion of the second plurality of user computers, determine most frequently requested data for the first plurality of user computers, determine most frequently requested data for the second plurality of user computers separate from determining the most frequently requested data for the first plurality of user computers, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data to the first plurality of user computers if it is determined that the requested data is not the most frequently requested data for the first plurality of user computers, transmit the captured requested data as first data to the second plurality of user computers if it is determined that the requested data is not the most frequently requested data for the second plurality of user computers, transmit the captured requested data as second data to the first plurality of user computers if it is determined that the requested data is the most

frequently requested data for the first plurality of user computers, and transmit the captured requested data as second data to the second plurality of user computers if it is determined that the requested data is the most frequently requested data for the second plurality of user computers.

19. (Original) The system of claim 18, said gateway processor further configured to display the web page image at the user computer.

20. (Original) The system of claim 18, further comprising a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user computers.

21. (Currently Amended) A system for virtually replicating a web page of a web server on a plurality of user computers remotely located from the web server, wherein the plurality of user computers includes a first plurality of user computers and a second plurality of user computers different from the first plurality of user computers, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, create a tag file identifying an action point of the web page and a location of the action point, transmit the web page image to the user computer via satellite over a first satellite communication channel, and transmit the tag file to the user computer via satellite over a second satellite communication channel different from the first satellite communication channel;

wherein said gateway processor is further configured to receive requests for data from at least a portion of the first plurality of user computers and at least a portion of the second plurality of user computers, determine most frequently requested data for the first plurality of user computers, determine most frequently requested data for the second plurality of user computers separate from determining the most frequently requested data for the first plurality of user computers, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data to the first plurality of user computers if it is determined that the requested data is not the most frequently requested data for the first plurality of user computers, transmit the captured requested data as first data to the second plurality of user computers if it is determined that the requested data is not the most frequently requested data for the second plurality of user computers, transmit the captured requested data as second data to the first plurality of user computers if it is determined that the requested data is the most frequently requested data for the first plurality of user computers, and transmit the captured requested data as second data to the second plurality of user computers if it is determined that the requested data is the most frequently requested data for the second plurality of user computers.

22. (Original) The system of claim 21, said gateway processor transmitting the tag file to the user computer to display the action point on the user computer.

23. (Original) The system of claim 22, wherein the tag file is synchronized with the web page image.

24. (Previously Presented) The system of claim 18, wherein there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel.

25. (Cancelled)

26. (Currently Amended) The system of claim 1, said processing device having a master cache and said second computers each having a local cache, said processing device configured to synchronize the master cache via the second satellite communications channel to the local cache of the second computers.

27. (Cancelled)

28. (Previously Presented) The system of claim 26, wherein the master cache includes most visited web pages and their sub-links.

29. (Previously Presented) The system of claim 28, wherein the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache.

30. (Previously Presented) The system of claim 26, further storing a replica of the master cache in a mobile storage device.

31. (Previously Presented) The system of claim 13, wherein the tag file is transmitted over a third communications channel different from the first and second satellite communications channels.

32. (Previously Presented) The system of claim 1, wherein the plurality of second computers are each configured to transmit a request for the first data to said processing device via satellite.

33. (Previously Presented) The system of claim 1, wherein said processing device is further configured to receive a request for data from the plurality of second computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data.

34. (Previously Presented) The system of claim 1, wherein the differential burst video transmission comprises a first data format, and said processing device is configured to broadcast the second data in a second data format different from the first data format.

35. (Previously Presented) The system of claim 18, wherein said processing device is configured to broadcast the second data in a data format different from the graphics format.

36. (Canceled)

37. (Currently Amended) A system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a processing device configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data via satellite over a first satellite communication channel using a differential burst video transmission to no more than one of the plurality of second computers to display the captured data in the video frame format, to capture the second data from at least one of the plurality of first computers and to broadcast the second data via satellite over a second satellite communications channel different from the first communications channel to the plurality of second computers~~The system of claim 1~~, wherein said processing device only transmits changes in the first data.

R E M A R K S

In view of the above amendments and following remarks, favorable reconsideration is respectfully requested.

The Examiner rejects the claims, but indicates that claims 36 and 37 contain allowable subject matter (pages 4, 15). In response, the allowable subject matter has been incorporated into the independent claims.

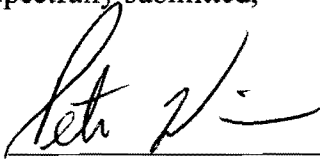
In the event there are any questions relating to this Amendment or to the application in general, it would be appreciated if the Examiner would telephone the undersigned attorney concerning such questions so that the prosecution of this application may be expedited.

Please charge any shortage or credit any overpayment of fees to BLANK ROME LLP, Deposit Account No. 23-2185 (Ref. 113776.00126). In the event that a petition for an extension of time is required to be submitted herewith and in the event that a separate petition does not

accompany this response, Applicant hereby petitions under 37 CFR 1.136(a) for an extension of time for as many months as are required to render this submission timely. Any fee due is authorized above.

Respectfully submitted,

Date: September 18, 2014

By: 

Peter S. Weissman
Reg. No. 40,220

BLANK ROME LLP
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Washington, D.C. 20037
Tel.: (202) 772-5805
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Electronic Patent Application Fee Transmittal

Application Number:	13410599			
Filing Date:	02-Mar-2012			
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/Frances Purnell			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Extension - 3 months with \$0 paid	2253	1	700	700

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	2801	1	600	600
Total in USD (\$)				1300

Electronic Acknowledgement Receipt

EFS ID:	20174695
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/Frances Purnell
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	18-SEP-2014
Filing Date:	02-MAR-2012
Time Stamp:	12:16:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1300
RAM confirmation Number	9074
Deposit Account	232185
Authorized User	WEISSMAN, PETER S

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

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Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		11377600126rce.pdf	622381	yes	4
			f7d5d35236e9380373d4c87e887627377cd3a487		

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Request for Continued Examination (RCE)		1	3	
	Extension of Time		4	4	

Warnings:

Information:

2	Amendment Submitted/Entered with Filing of CPA/RCE	11377600126amendment.PDF	1348647	no	13
			90711296d88122e81995198192ff5309de96712b		

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	32443	no	2
			ed175f1c2309b35c2a5eb310457ec3eb9f46fcbd		

Warnings:

Information:

Total Files Size (in bytes):			2003471
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/410,599	Filing Date 03/02/2012	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO**APPLICATION AS FILED – PART I**

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

	09/18/2014	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	* 31	Minus	** 32	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
	TOTAL ADD'L FEE						0

(Column 1)

(Column 2)

(Column 3)

		CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
	TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** 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 number found in the appropriate box in column 1.

LIE
/GAIL WOOTEN/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/410,599

03/02/2012

Abel AVELLAN

113776.00126

9863

27557

7590

03/20/2014

BLANK ROME LLP

WATERGATE

600 NEW HAMPSHIRE AVENUE, N.W.

WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT

PAPER NUMBER

2452

MAIL DATE

DELIVERY MODE

03/20/2014

PAPER

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

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

Office Action Summary	Application No. 13/410,599	Applicant(s) AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 3/5/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-4, 8-24, 26 and 28-37 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-4, 8-24, 26, and 28-37 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|---|---|
| 1) ☐ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

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

DETAILED ACTION

1. Claims 1-4, 8-24, 26, and 28-37 are pending.

Response to Arguments

2. The 35 USC 101 rejections have been withdrawn in view of the entered amendments.
3. Applicant's arguments filed with respect to the prior art rejections of the claims have been fully considered but they are not persuasive.
4. The applicant argues with respect to the combination of Daniels of Liebowitz is improper as both teachings have completely different goals than the present invention. Specifically, the applicant alleges the invention deals with communication over a satellite communication network, which has vastly different criteria, requirements and considerations than other communication networks.
5. Firstly, the applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention *without specifically pointing out how the language of the claims patentably distinguishes them from the references* (emphasis added).

Nonetheless, the examiner disagrees with the applicant's general assertions about the cited arts and notes, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Daniels (see [0002]), Liebowitz (see column 1, 10-17), and the instant application ([0002] and Title) all deal with communications over networks with Liebowitz disclosing satellite networks specifically in its Abstract.

Specifically, Daniels teaches substantially all the claim (including multichannel) aside from the data via satellite using differential burst video transmission. Liebowitz discloses broadcasting video data via satellite using differential burst video transmission (Abstract). The combination, to one of ordinary skill in the art, would yield the claimed invention as broadcasting multiple channels over satellite is certainly not beyond their reach despite the applicant's insistence. Simply put, the applicant's conclusions with regard to the proposed combination are unduly limiting what is within the technical grasp of one of ordinary skill in the art and narrowing reading the claimed subject matter so as to improperly exclude vast swaths of teachings and arts with respect to communications networks.

Art Unit: 2452

6. The applicant further argues that the cited references do not disclose the new claims 36 and 37.
7. Claim 36 has been objected to as being allowable if written in independent form, see below. Claim 37 has been rejected, see below.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 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 of this title, 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.
9. Claims **1,2,4,8-17,26,28, 32-34, and 37** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels (US Pub. No. 2003/0074672) in view of Liebowitz et al (US Pat. 5,812,545).
10. As to claim 1, Daniels discloses a system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data

over a first communication channel to no more than one of the plurality of second computers to display the captured data in the video frame format ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), to capture the second data from at least one of the plurality of first computers and to broadcast the second data over a second communications channel to the plurality of second computers ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose broadcasting the data via satellite using differential burst video transmission. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions at least two specific satellite channels.

However, Liebowitz discloses broadcasting the data via satellite using differential burst video transmission and use of a plurality of satellite channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

11. As to claim 2, Daniels discloses the data is provided by the plurality of first computers in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format ([0018], gateway server sends captured video frames to other computers).
12. As to claim 4, Daniels discloses said gateway platform captures the entirety of the data to a video frame format ([0018], gateway server sends captured video frames to other computers).
13. As to claim 8, Daniels discloses each of the first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals ([0028]).
14. As to claim 9, Daniels discloses the data is a web page and said gateway platform causes the plurality of second computers to display a virtual image of the web page ([0018]).
15. As to claim 10, Daniels discloses said gateway platform comprises a processor ([0018]).

16. As to claim 11, Daniels discloses said gateway platform comprises a storage device for storing the captured data ([0018]).

17. As to claim 12, Daniels discloses said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device ([0018]).

18. As to claim 13, Daniels discloses the second computers are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command ([0029]).

19. As to claim 14, Daniels discloses the location of the user input action command comprises an x coordinate and a y coordinate ([0019]).

20. As to claim 15, Daniels discloses the type of the user action input comprises a keyboard entry or a mouse entry ([0019]).

21. As to claim 16, Daniels discloses the user input action command comprises a mouse click, a scroll, or a typed key command ([0019]).

22. As to claim 17, Daniels discloses said gateway platform further receives the tag file and performs the user input action command on the first computer ([0019]).

23. As to claim 26, Daniels discloses said gateway platform having a master cache and said second computers each having a local cache, said gateway platform configured to synchronize the master cache via the second communications channel to the local cache of the second computers ([0087], lines 1-20).

24. As to claim 28, Daniels discloses the master cache includes most visited web pages and their sub-links ([0087], lines 1-20).

25. As to claim 32, Liebowitz discloses the plurality of second computers are each configured to transmit a request for the first data to said gateway platform via satellite (Abstract).

26. As to claim 33, Daniels discloses said gateway platform is further configured to receive a request for data from the plurality of second computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data ([0087], lines 1-20).

27. As to claim 34, Daniels and Liebowitz disclose the differential burst video transmission comprises a first data format (Liebowitz, Abstract), and said gateway platform is configured to broadcast the second data in a second data format different from the first data format (Daniels [0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a “public channel” that is “simultaneously available to all display devices in the network” and is a different format than the first as it is not encrypted or secure).

28. As to claim 37, Daniels and Liebowitz disclose said processing device only transmits changes in the first data (Daniels, [0085]).

29. Claims **3, 18-20, and 35** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Liebowitz and in further view of Myers (US Pub No. 2010/0228875).

30. As to claim 18, Daniels discloses a system for presenting first and second web pages of at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least

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one web server, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer over a first communication channel ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer over a second satellite communication channel different than the first communication channel ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

But, Daniels and Liebowitz do not explicitly disclose the web pages accessed in an HTTP format.

However, Myers discloses a gateway processor and storage device accessing HTTP format web content, covert the HTTP format web content to a different graphics format and send the graphics format content to other devices ([0034]-[0035]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Liebowitz, and Myers in order to utilize the Daniel's system with the widely known and used format of HTTP thereby allowing its use for a greater portion of web content.

31. As to claim 3, it is rejected by a similar rationale to that set forth in claim 18's rejection.

32. As to claim 19, Daniels discloses gateway processor further configured to display the web page image at the user computer ([0018]).

33. As to claim 20, Daniels discloses a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user ([0087]).

34. As to claim 35, Myers discloses said gateway platform is configured to broadcast the second data in a data format different from the graphics format ([0034]-[0035]).

35. Claims **21-24 and 31** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Brown (US Pub. No. 2003/0128234) in further view of Liebowitz.

36. As to claim 21, Daniels discloses a system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system a gateway storage device; and, a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, transmit the web page image to the user computer over a first communication channel([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel").

But, Daniels does not explicitly disclose creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from the first communication channel.

However, Brown discloses creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from a first communication channel ([0056]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Brown in order to provide web page information on a customized basis.

But, Daniels and Brown do not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Brown, and Liebowitz in order to provide a reliable, known method of transmission.

37. As to claim 22, Daniels discloses said gateway processor transmitting the tag file to the user computer to display the action point on the user computer ([0019]).

38. As to claim 23, Daniels discloses the tag file is synchronized with the web page image ([0019]).

39. As to claim 24, Daniels, Brown, and Liebowitz discloses there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel (Brown discloses tag files [0056] and Liebowitz, Abstract discloses the satellite communications channels).

40. As to claim 31, it is rejected by a similar rationale to that set forth in claim 21's rejection.

41. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of Liebowitz and in further view what was well known in the art at the time of the invention.

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42. As to claim 29, Daniels discloses the parent claim but does not disclose the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention to have client specific caches in addition to a master cache with the local caches storing data not in the master cache as a means to increase efficiency.

43. As to claim 30, Daniels discloses the parent claim but does not disclose storing a replica of the master cache in a mobile storage device. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention storing a replica of the master cache in a mobile storage device as a means to increase efficiency and reliability.

Allowable Subject Matter

44. Claim 37 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

45. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
46. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
47. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm.
48. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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49. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas J Dailey/
Examiner, Art Unit 2452

Search Notes 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	5/16/2012	TJD
Keyword searching in EAST, see attached search history	5/16/2012	TJD
Keyword searching in EAST for amended subject matter, see attached search history	12/2/2012	TJD
Keyword searching in EAST for newly added claims, relied upon previously cited art for others	8/26/2013	TJD
Updated search, relied upon previously cited arts.	3/18/2014	TJD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	)	Confirmation No. 9863
	)	
Abel AVELLAN	)	Group Art Unit: 2452
	)	
Serial No.: 13/410,599	)	Examiner: Thomas J. DAILEY
	)	
Filed: March 2, 2012	)	Atty. Dkt. No.: 113776.00126
	)	

For: SYSTEM AND METHOD FOR ZERO LATENCY
BROWSING

AMENDMENT

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

Sir:

In response to the Office Action dated Sept. 6, 2013, kindly amend the above-identified patent application as follows:

Listing of Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 10 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a ~~gateway platform processing device~~ configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data via satellite over a first satellite communication channel using a differential burst video transmission to no more than one of the plurality of second computers to display the captured data in the video frame format, to capture the second data from at least one of the plurality of first computers and to broadcast the second data via satellite over a second satellite communications channel different from the first communications channel to the plurality of second computers.

2. (Currently Amended) The system of claim 1, wherein the data is provided by the plurality of first computers in a first format, and said ~~gateway platform processing device~~ captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format.

3. (Original) The system of claim 2, wherein the first format is an HTTP format.
4. (Currently Amended) The system of claim 2, wherein said ~~gateway platform~~ processing device captures the entirety of the data to a video frame format.
- 5-7. (Cancelled)
8. (Previously Presented) The system of claim 1, wherein each of the plurality of first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals.
9. (Currently Amended) The system of claim 1, wherein the data is a web page and said ~~gateway platform~~ processing device causes the plurality of second computers to display a virtual image of the web page.
10. (Currently Amended) The system of claim 1, wherein said ~~gateway platform~~ processing device comprises a processor.
11. (Currently Amended) The system of claim 1, wherein said ~~gateway platform~~ comprises further comprising a storage device for storing the captured data.
12. (Currently Amended) The system of claim 1, wherein said ~~gateway platform~~ processing device comprises a processor in communication with a storage device and said processor stores the captured data in said storage device.

13. (Previously Presented) The system of claim 1, wherein the plurality of second computers are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command.

14. (Original) The system of claim 13, wherein the location of the user input action command comprises an x coordinate and a y coordinate.

15. (Original) The system of claim 13, wherein the type of the user action input comprises a keyboard entry or a mouse entry.

16. (Original) The system of claim 13, wherein the user input action command comprises a mouse click, a scroll, or a typed key command.

17. (Currently Amended) The system of claim 13, wherein said ~~gateway platform~~ processing device further receives the tag file and performs the user input action command on the plurality of first computers.

18. (Previously Presented) A system for presenting first and second web pages of at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server in an HTTP format, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer via satellite over a first satellite communication channel, said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer via satellite over a second satellite communication channel different than the first satellite communication channel.

19. (Original) The system of claim 18, said gateway processor further configured to display the web page image at the user computer.

20. (Original) The system of claim 18, further comprising a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user computers.

21. (Previously Presented) A system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, create a tag file identifying an action point of the web page and a location of the action

point, transmit the web page image to the user computer via satellite over a first satellite communication channel, and transmit the tag file to the user computer via satellite over a second satellite communication channel different from the first satellite communication channel.

22. (Original) The system of claim 21, said gateway processor transmitting the tag file to the user computer to display the action point on the user computer.

23. (Original) The system of claim 22, wherein the tag file is synchronized with the web page image.

24. (Previously Presented) The system of claim 18, wherein there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel.

25. (Cancelled)

26. (Currently Amended) The system of claim 1, said ~~gateway platform processing~~ device having a master cache and said second computers each having a local cache, said ~~gateway~~

~~platform~~ processing device configured to synchronize the master cache via the second satellite communications channel to the local cache of the second computers.

27. (Cancelled)

28. (Previously Presented) The system of claim 26, wherein the master cache includes most visited web pages and their sub-links.

29. (Previously Presented) The system of claim 28, wherein the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache.

30. (Previously Presented) The system of claim 26, further storing a replica of the master cache in a mobile storage device.

31. (Previously Presented) The system of claim 13, wherein the tag file is transmitted over a third communications channel different from the first and second satellite communications channels.

32. (Currently Amended) The system of claim 1, wherein the plurality of second computers are each configured to transmit a request for the first data to said ~~gateway platform~~ processing device via satellite.

33. (Currently Amended) The system of claim 1, wherein said ~~gateway platform~~ processing device is further configured to receive a request for data from the plurality of second

computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data.

34. (Currently Amended) The system of claim 1, wherein the differential burst video transmission comprises a first data format, and said ~~gateway platform processing device~~ is configured to broadcast the second data in a second data format different from the first data format.

35. (Currently Amended) The system of claim 18, wherein said ~~gateway platform processing device~~ is configured to broadcast the second data in a data format different from the graphics format.

36. (New) The system of claim 1, wherein the plurality of second computers includes a first plurality of second computers and a second plurality of second computers different from the first plurality of second computers, and wherein said processing device is further configured to receive requests for data from at least a portion of the first plurality of second computers and at least a portion of the second plurality of second computers, determine most frequently requested data for the first plurality of second computers, determine most frequently requested data for the second plurality of second computers separate from determining the most frequently requested

data for the first plurality of second computers, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data to the first plurality of second computers if it is determined that the requested data is not the most frequently requested data for the first plurality of second computers, transmit the captured requested data as first data to the second plurality of second computers if it is determined that the requested data is not the most frequently requested data for the second plurality of second computers, transmit the captured requested data as second data to the first plurality of second computers if it is determined that the requested data is the most frequently requested data for the first plurality of second computers, and transmit the captured requested data as second data to the second plurality of second computers if it is determined that the requested data is the most frequently requested data for the second plurality of second computers.

37. (New) The system of claim 1, wherein said processing device only transmits changes in the first data.

REMARKS

In view of the above amendments and following remarks, favorable reconsideration is respectfully requested.

Claim Rejection – 35 USC §101

Claims 1-9, 13-17, 24, 26, and 28-35 were rejected as being directed to non-statutory subject matter. The Examiner contends that those claims are software only and must recite hardware. The Examiner suggests that the claims recite a processor or memory. In response, the claims have been amended to accept the Examiner's suggestion.

Claim Rejections – 35 U.S.C. §103

The Examiner rejects claims 1, 2, 4, 8-17, 26, 28, and 32-34 under 35 U.S.C. §103 as unpatentable over *Daniels* (Pub. 2003/0074672) in view of *Liebowitz* (U.S. Patent No. 5,812,545); rejects claims 3, 18-20 and 35 as obvious over *Daniels*, *Liebowitz*, and *Myers* (Pub. 2010/0228875); rejects claims 21-24 and 31 over *Daniels*, *Brown* (Pub. No. 2003/0128234) and *Liebowitz*; and rejects claims 29-30 over *Daniels*, *Liebowitz* and *well known prior art*.

The Examiner disagrees with the Applicant's argument that *Daniels* and *Liebowitz* have different goals than the present invention, and notes that those references and the present invention all deal with communications over networks. (Office Action, p. 2, ¶4-5.) The Examiner's analysis is misguided. The Examiner generically characterizes all the technologies

as addressing communications over networks. The Examiner fails to recognize that the present invention more specifically deals with communication over a satellite communication network, which has vastly different criteria, requirements and considerations than other communication networks. The Examiner also fails to consider that *Daniels* transmits information from an Internet gateway to local wireless devices, NOT to remote computers via satellite. And, the Examiner fails to consider that *Liebowitz* is concerned with providing full mesh satellite capabilities by organizing bursts, which are not addressed by the present invention or *Daniels*.

Instead, the Examiner picks what he contends to be some common factor to bootstrap his conclusion that the technologies are all the same and therefore one skilled in the art would combine *Daniels* with *Liebowitz*. Following that faulty logic, however, one could conclude that apples and oranges are the same because they are both fruit or because they are both round or because they are both smaller than a loaf of bread. Quite simply, a person of ordinary skill would not look to the Internet gateway transmissions of *Daniels* and combine them with the organized bursts of *Daniels*. Neither reference teaches or suggests that satellite is a viable medium to distribute huge amounts of Internet data.

The Examiner also disagrees with the Applicant's argument that the prior art does not teach transmission over two separate satellite channels because the references were attacked individually. (Office Action, p. 3, ¶6-7.) In response, it is repeated that the Examiner has no basis whatsoever to conclude that the transmission format of *Daniels* can be implemented in a satellite environment. *Liebowitz* merely shows that information can be transmitted via satellite.

It is unreasonable to conclude from *Liebowitz* that any communication performed by *Daniels* can then be performed over satellite. Neither reference teaches or suggests the claimed communication format, namely transmitting a first data in a first format over a first satellite channel, and transmitting a second data in a second format over a second satellite channel.

In addition, new claim 36 is submitted. Claim 33 requires the system to determine most frequently requested information, and to transmit the most frequently requested data in a different format than non-frequently requested data. Claim 36 further requires that the system be able to identify most frequently requested data for different subsets of computers. For instance (see 0048), if the system determines that the users in Florida access CNN in Spanish, it will broadcast the Spanish CNN to all Florida users but it may broadcast CNN in English to users outside of Florida (or also to users in Florida). It is respectfully requested that the prior art does not teach this feature.

New claim 37 is also submitted. Here, the system only transmits changes in information (see 0034). It is respectfully submitted that claim 37 is patentable.

In the event there are any questions relating to this Amendment or to the application in general, it would be appreciated if the Examiner would telephone the undersigned attorney concerning such questions so that the prosecution of this application may be expedited.

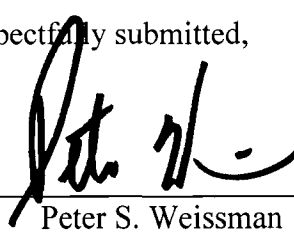
Please charge any shortage or credit any overpayment of fees to BLANK ROME LLP, Deposit Account No. 23-2185 (Ref. 113776.00126). In the event that a petition for an extension

of time is required to be submitted herewith and in the event that a separate petition does not accompany this response, Applicant hereby petitions under 37 CFR 1.136(a) for an extension of time for as many months as are required to render this submission timely. Any fee due is authorized above.

Respectfully submitted,

Date: March 5, 2014

By: _____


Peter S. Weissman
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Electronic Patent Application Fee Transmittal

Application Number:	13410599			
Filing Date:	02-Mar-2012			
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/April Henderson@blankrome.com			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	2202	2	40	80
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 - 3 months with \$0 paid	2253	1	700	700
Miscellaneous:				
Total in USD (\$)				780

Electronic Acknowledgement Receipt

EFS ID:	18378070
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/April Henderson@blankrome.com
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	05-MAR-2014
Filing Date:	02-MAR-2012
Time Stamp:	15:35:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$780
RAM confirmation Number	2155
Deposit Account	232185
Authorized User	WEISSMAN, PETER S

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

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	AmendTrans.pdf	41508	no	1
			79a0911e93d158f67449361c6435b76be98996af		

Warnings:

Information:

2	Extension of Time	EOT.pdf	48284	no	1
			9780422a20e68ee26f26f98ac5b8d402bb45189d		

Warnings:

Information:

3		Amendment.pdf	167066	yes	13
			d27cf95638ca182f8909121569bdd846c67ca10a		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	9
	Applicant Arguments/Remarks Made in an Amendment	10	13

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	32767	no	2
			7d3b4a78fe3ba18008afd96a7d4dd563111471d		

Warnings:

Information:

Total Files Size (in bytes):			289625
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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.

AMENDMENT TRANSMITTAL LETTER			Docket No. 113776.00126
Application No. 13/410,599-Conf. #9863	Filing Date March 2, 2012	Examiner T. J. Dailey	Art Unit 2452

Applicant(s): Abel AVELLAN et al.

Invention: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

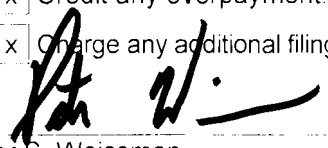
TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED					
	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	
Total Claims	32	- 30 =	2	x 40.00	80.00
Independent Claims	4	- 4 =	0	x	
Multiple Dependent Claims (check if applicable) ☐					
Other fee (please specify): Extension for response within third month					700.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:					780.00

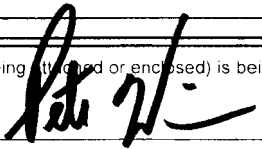
- ☐ Large Entity ☒ Small Entity
- ☐ No additional fee is required for this amendment.
- ☐ Please charge Deposit Account No. 23-2185 in the amount of \$ 780.00
- ☐ A check in the amount of \$ _____ to cover the filing fee is enclosed.
- ☒ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 23-2185 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing or application processing fees required under 37 C.F.R. § 1.16 and 1.17.

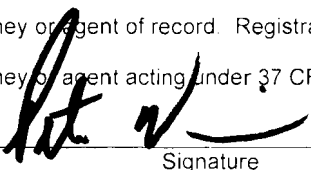

 Peter S. Weissman
 Attorney/Agent Reg. No.: 40,220
 BLANK ROME LLP
 600 New Hampshire Ave., NW
 Washington, DC 20037
 (202) 772-5800

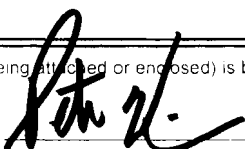
Dated: March 5, 2014

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 CFR § 1.6(a)(4).

Dated: March 5, 2014

Signature:  (Peter S. Weissman)

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 113776.00126	
Application Number 13/410,599-Conf. #9863		Filed March 2, 2012	
For SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
Art Unit 2452		Examiner T. J. Dailey	
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):			
	<u>Fee</u>	<u>Small Entity Fee</u>	<u>Micro Entity Fee</u>
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50
☐ 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
☒ 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 <u>23-2185</u> ☒ 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/inventor. ☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96) ☒ attorney or agent of record. Registration number <u>40,220</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____			
 _____ Signature		<u>March 5, 2014</u> _____ Date	
<u>Peter S. Weissman</u> _____ Typed or printed name		<u>(202) 772-5800</u> _____ Telephone Number	
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.			
☐ *Total of <u>1</u> 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 CFR § 1.6(a)(4).	
Dated: March 5, 2014	Signature  (Peter S. Weissman)

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/410,599	Filing Date 03/02/2012	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	03/05/2014	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 32	Minus	** 30	= 2	x \$40 =	80
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 0	x \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE							80

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** 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 number found in the appropriate box in column 1.

LIE
/REGINA BALTIMORE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/410,599

03/02/2012

Abel AVELLAN

113776.00126

9863

27557 7590 09/06/2013
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT

PAPER NUMBER

2452

MAIL DATE

DELIVERY MODE

09/06/2013

PAPER

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

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

Office Action Summary	Application No. 13/410,599	Applicant(s) AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 6/6/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-4, 8-24, 26 and 28-35 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-4, 8-24, 26, and 28-35 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

- a) ☐ All b) ☐ Some c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☐ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

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

DETAILED ACTION

1. Claims 1-4, 8-24, 26, and 28-35 are pending.

Response to Arguments

2. The applicant argues with respect to the 35 USC 101 rejections that claims 1-9, 13-17, 24, 26, and 28-35 recite statutory subject matter because claim 1 requires a gateway platform which according to the specification includes hardware.
3. The examiner disagrees and notes while claims are interpreted in light of the specification, limitations from the specification are not read into the claims.
4. The applicant argues with respect to the combination of Daniels of Liebowitz is improper as both teachings have completely different goals than the present invention.
5. The examiner disagrees and notes, in response to applicant's argument that Daniels and Liebowitz are nonanalogous art to the instant application, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the

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claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Daniels (see [0002]), Liebowitz (see column 1, 10-17), and the instant application ([0002] and Title) all deal with communications over networks.

6. Further, the applicant argues there is no suggestion in either reference that transmission over two separate satellite channels as claimed is either desirable or possible.
7. The examiner disagrees and notes the examiner notes one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Obviously, neither reference alone teaches the claimed invention as a whole and therefore the claims are rejected by the combination of Daniels and Liebowitz (i.e. what the two arts would have suggested to one of ordinary skill in the art). Specifically, Daniels teaches substantially all the claim (including multichannel) aside from the data via satellite using differential burst video transmission. Liebowitz discloses broadcasting video data via satellite using differential burst video transmission (Abstract). The combination, to one of ordinary skill in the art, would yield the claimed invention as broadcasting multiple channels over satellite is certainly not beyond their reach.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1-9, 13-17, 24, 26, and 28-35 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

10. Claims 1-4, 8-9, 13-17, 26, 28-29, and 31-33 are directed to systems or architectures that when interpreted in light of the specification may read on software alone which is non-statutory. In order to comply, the claims must explicitly recite hardware (e.g. a processor, memory) so they may not be reasonably be interpreted as software alone.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 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 of this title, 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.

12. Claims **1,2,4,8-17,26,28, and 32-34** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels (US Pub. No. 2003/0074672) in view of Liebowitz et al (US Pat. 5,812,545).

13. As to claim 1, Daniels discloses a system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:
a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data over a first communication channel to no more than one of the plurality of second computers to display the captured data in the video frame format ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), to capture the second data from at least one of the plurality of first computers and to broadcast the second data over a second communications channel to the plurality of second computers ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose broadcasting the data via satellite using differential burst video transmission. Daniels does disclose the use of

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known cellular and television transmission channels in [0087], but never mentions at least two specific satellite channels.

However, Liebowitz discloses broadcasting the data via satellite using differential burst video transmission and use of a plurality of satellite channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

14. As to claim 2, Daniels discloses the data is provided by the plurality of first computers in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format ([0018], gateway server sends captured video frames to other computers).
15. As to claim 4, Daniels discloses said gateway platform captures the entirety of the data to a video frame format ([0018], gateway server sends captured video frames to other computers).
16. As to claim 8, Daniels discloses each of the first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals ([0028]).

17. As to claim 9, Daniels discloses the data is a web page and said gateway platform causes the plurality of second computers to display a virtual image of the web page ([0018]).

18. As to claim 10, Daniels discloses said gateway platform comprises a processor ([0018]).

19. As to claim 11, Daniels discloses said gateway platform comprises a storage device for storing the captured data ([0018]).

20. As to claim 12, Daniels discloses said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device ([0018]).

21. As to claim 13, Daniels discloses the second computers are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command ([0029]).

22. As to claim 14, Daniels discloses the location of the user input action command comprises an x coordinate and a y coordinate ([0019]).

23. As to claim 15, Daniels discloses the type of the user action input comprises a keyboard entry or a mouse entry ([0019]).

24. As to claim 16, Daniels discloses the user input action command comprises a mouse click, a scroll, or a typed key command ([0019]).

25. As to claim 17, Daniels discloses said gateway platform further receives the tag file and performs the user input action command on the first computer ([0019]).

26. As to claim 26, Daniels discloses said gateway platform having a master cache and said second computers each having a local cache, said gateway platform configured to synchronize the master cache via the second communications channel to the local cache of the second computers ([0087], lines 1-20).

27. As to claim 28, Daniels discloses the master cache includes most visited web pages and their sub-links ([0087], lines 1-20).

28. As to claim 32, Liebowitz discloses the plurality of second computers are each configured to transmit a request for the first data to said gateway platform via satellite (Abstract).

29. As to claim 33, Daniels discloses said gateway platform is further configured to receive a request for data from the plurality of second computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data ([0087], lines 1-20).

30. As to claim 34, Daniels and Liebowitz disclose the differential burst video transmission comprises a first data format (Liebowitz, Abstract), and said gateway platform is configured to broadcast the second data in a second data format different from the first data format (Daniels [0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a “public channel” that is “simultaneously available to all display devices in the network” and is a different format than the first as it is not encrypted or secure).

31. Claims **3, 18-20, and 35** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Liebowitz and in further view of Myers (US Pub No. 2010/0228875).

32. As to claim 18, Daniels discloses a system for presenting first and second web pages of at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer over a first communication channel ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer over a second satellite communication channel different than the first communication channel ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

But, Daniels and Liebowitz do not explicitly disclose the web pages accessed in an HTTP format.

However, Myers discloses a gateway processor and storage device accessing HTTP format web content, covert the HTTP format web content to a different graphics format and send the graphics format content to other devices ([0034]-[0035]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Liebowitz, and Myers in order to utilize the Daniel's system with the widely known and used format of HTTP thereby allowing its use for a greater portion of web content.

33. As to claim 3, it is rejected by a similar rationale to that set forth in claim 18's rejection.

34. As to claim 19, Daniels discloses gateway processor further configured to display the web page image at the user computer ([0018]).

35. As to claim 20, Daniels discloses a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user ([0087]).

36. As to claim 35, Myers discloses said gateway platform is configured to broadcast the second data in a data format different from the graphics format ([0034]-[0035]).

37. Claims **21-24 and 31** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Brown (US Pub. No. 2003/0128234) in further view of Liebowitz.

38. As to claim 21, Daniels discloses a system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system a gateway storage device; and, a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, transmit the web page image to the user computer over a first communication channel([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the

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video frame to only one computer, i.e. the disclosed "private connection channel").

But, Daniels does not explicitly disclose creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from the first communication channel.

However, Brown discloses creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from a first communication channel ([0056]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Brown in order to provide web page information on a customized basis.

But, Daniels and Brown do not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Brown, and Liebowitz in order to provide a reliable, known method of transmission.

39. As to claim 22, Daniels discloses said gateway processor transmitting the tag file to the user computer to display the action point on the user computer ([0019]).

40. As to claim 23, Daniels discloses the tag file is synchronized with the web page image ([0019]).

41. As to claim 24, Daniels, Brown, and Liebowitz discloses there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel (Brown discloses tag files [0056] and Liebowitz, Abstract discloses the satellite communications channels).

Art Unit: 2452

42. As to claim 31, it is rejected by a similar rationale to that set forth in claim 21's rejection.

43. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of Liebowitz and in further view what was well known in the art at the time of the invention.

44. As to claim 29, Daniels discloses the parent claim but does not disclose the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention to have client specific caches in addition to a master cache with the local caches storing data not in the master cache as a means to increase efficiency.

45. As to claim 30, Daniels discloses the parent claim but does not disclose storing a replica of the master cache in a mobile storage device. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention storing a replica of the master cache in a mobile storage device as a means to increase efficiency and reliability.

Art Unit: 2452

46.

47.

48.

Conclusion

49. For additional prior art made of record and not relied upon but considered pertinent to applicant's disclosure see attached Notice of References Cited, Form PTO-892.

50. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm.

51. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2452

52. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas J Dailey/
Primary Examiner, Art Unit 2452

Search Notes 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	5/16/2012	TJD
Keyword searching in EAST, see attached search history	5/16/2012	TJD
Keyword searching in EAST for amended subject matter, see attached search history	12/2/2012	TJD
Keyword searching in EAST for newly added claims, relied upon previously cited art for others	8/26/2013	TJD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

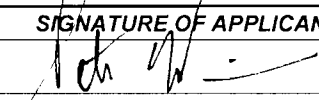
Request for Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	13/410,599-Conf. #9863
	Filing Date	March 2, 2012
	First Named Inventor	Abel AVELLAN
	Art Unit	2452
	Examiner Name	T. J. Dailey
	Attorney Docket Number	113776.00126

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

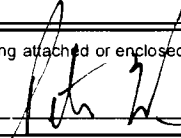
1. ☐ **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
- a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- iii. ☐ Information Disclosure Statement (IDS)
- ii. ☐ Affidavit(s)/Declaration(s)
- iv. ☐ Other _____
2. ☐ **Miscellaneous**
- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____
3. ☐ **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
- a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any Overpayments, to Deposit Account No. 23-2185.
- i. ☒ RCE fee required under 37 CFR 1.17(e)
- ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☒ Payment by credit card (Form PTO-2038 enclosed)

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.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED			
Signature		Date	June 6, 2013
Name (Print/Type)	Peter S. Weissman	Registration No.	40,220

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 CFR § 1.6(a)(4).

Dated: June 6, 2013

Signature:  (Peter S. Weissman)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 113776.00126	
Application Number 13/410,599-Conf. #9863		Filed March 2, 2012	
For SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
Art Unit 2452		Examiner T. J. Dailey	

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____
☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ 700.00
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____

☒ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☒ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number 23-2185.

☒ 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/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration number 40,220.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

Signature

Peter S. Weissman
Typed or printed name

June 6, 2013
Date

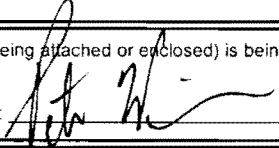
(202) 772-5800
Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of 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 CFR § 1.6(a)(4).

Dated: June 6, 2013

Signature:  (Peter S. Weissman)

FEE TRANSMITTAL		Complete if known	
		Application Number	13/410,599-Conf. #9863
		Filing Date	March 2, 2012
		First Named Inventor	Abel AVELLAN
		Examiner Name	T. J. Dailey
☒ 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		Art Unit	2452
		Practitioner Docket No.	113776.00126
TOTAL AMOUNT OF PAYMENT		(\$) 1,300.00	

METHOD OF PAYMENT (check all that apply)

☐ Check
 ☒ Credit Card
 ☐ Money Order
 ☐ None
 ☐ Other (please identify): _____

☒ Deposit Account
 Deposit Account Number: 23-2185
 Deposit Account Name: Blank Rome LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below
 ☐ Charge fee(s) indicated below, **except for the filing fee**
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17
 ☒ Credit any overpayment of fee(s)

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.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	280	140*	70	600	300	150	720	360	180	
Design	180	90	45	120	60	30	460	230	115	
Plant	180	90	45	380	190	95	580	290	145	
Reissue	280	140	70	600	300	150	2,160	1,080	540	
Provisional	260	130	65	0	0	0	0	0	0	

* The \$140 small entity status filing fee for a utility application is further reduced to \$70 for a small entity status applicant who files the application via EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
30	- 30 or HP =	x	=	Fee (\$)
HP = highest number of total claims paid for, if greater than 20.				Fee Paid (\$)

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
4	- 4 or HP =	x	=
HP = highest number of independent claims paid for, if greater than 3.			

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

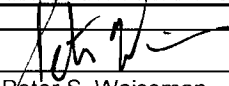
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/50 =	(round up to a whole number) x	=	

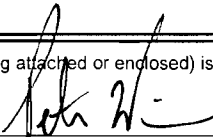
4. OTHER FEE(S)

Non-English specification, \$130 fee (no small or micro entity discount)

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity)

Other (e.g., late filing surcharge):	2253 Extension for response within third month	700.00
	2801 Request for RCE - 1st request (see 37 CFR 1.114)	600.00

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	40,220
Name (Print/Type)	Peter S. Weissman	Telephone	(202) 772-5800
		Date	June 6, 2013

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 CFR § 1.6(a)(4).	
Dated: June 6, 2013	Signature:  (Peter S. Weissman)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	)	Confirmation No. 9863
	)	
Abel AVELLAN	)	Group Art Unit: 2452
	)	
Serial No.: 13/410,599	)	Examiner: Thomas J. DAILEY
	)	
Filed: March 2, 2012	)	Atty. Dkt. No.: 113776.00126
	)	

For: SYSTEM AND METHOD FOR ZERO LATENCY
BROWSING

AMENDMENT

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

Sir:

In response to the Office Action dated Dec. 6, 2012, kindly amend the above-identified patent application as follows:

Listing of Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data via satellite over a first satellite communication channel using a differential burst video transmission to no more than one of the plurality of second computers to display the captured data in the video frame format, to capture the second data from at least one of the plurality of first computers and to broadcast the second data via satellite over a second satellite communications channel different from the first communications channel to the plurality of second computers.

2. (Previously Presented) The system of claim 1, wherein the data is provided by the plurality of first computers in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format.

3. (Original) The system of claim 2, wherein the first format is an HTTP format.

4. (Original) The system of claim 2, wherein said gateway platform captures the entirety of the data to a video frame format.

5-7. (Cancelled)

8. (Previously Presented) The system of claim 1, wherein each of the plurality of first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals.

9. (Previously Presented) The system of claim 1, wherein the data is a web page and said gateway platform causes the plurality of second computers to display a virtual image of the web page.

10. (Original) The system of claim 1, wherein said gateway platform comprises a processor.

11. (Original) The system of claim 1, wherein said gateway platform comprises a storage device for storing the captured data.

12. (Original) The system of claim 1, wherein said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device.

13. (Previously Presented) The system of claim 1, wherein the plurality of second computers are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command.

14. (Original) The system of claim 13, wherein the location of the user input action command comprises an x coordinate and a y coordinate.

15. (Original) The system of claim 13, wherein the type of the user action input comprises a keyboard entry or a mouse entry.

16. (Original) The system of claim 13, wherein the user input action command comprises a mouse click, a scroll, or a typed key command.

17. (Previously Presented) The system of claim 13, wherein said gateway platform further receives the tag file and performs the user input action command on the plurality of first computers.

18. (Previously Presented) A system for presenting first and second web pages of at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server in an HTTP format, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer via satellite over a first satellite communication channel, said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer via satellite over a second satellite communication channel different than the first satellite communication channel.

19. (Original) The system of claim 18, said gateway processor further configured to display the web page image at the user computer.

20. (Original) The system of claim 18, further comprising a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user computers.

21. (Previously Presented) A system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, create a tag file identifying an action point of the web page and a location of the action

point, transmit the web page image to the user computer via satellite over a first satellite communication channel, and transmit the tag file to the user computer via satellite over a second satellite communication channel different from the first satellite communication channel.

22. (Original) The system of claim 21, said gateway processor transmitting the tag file to the user computer to display the action point on the user computer.

23. (Original) The system of claim 22, wherein the tag file is synchronized with the web page image.

24. (Previously Presented) The system of claim 18, wherein there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel.

25. (Cancelled)

26. (Currently Amended) The system of claim 1, said gateway platform having a master cache and said second computers each having a local cache, said gateway platform configured to

synchronize the master cache via the second satellite communications channel to the local cache of the second computers.

27. (Cancelled)

28. (Previously Presented) The system of claim 26, wherein the master cache includes most visited web pages and their sub-links.

29. (Previously Presented) The system of claim 28, wherein the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache.

30. (Previously Presented) The system of claim 26, further storing a replica of the master cache in a mobile storage device.

31. (Currently Amended) The system of claim 13, wherein the tag file is transmitted over a third communications channel different from the first and second satellite communications channels.

32. (Previously Presented) The system of claim 1, wherein the plurality of second computers are each configured to transmit a request for the first data to said gateway platform via satellite.

33. (Previously Presented) The system of claim 1, wherein said gateway platform is further configured to receive a request for data from the plurality of second computers, determine

most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data.

34. (New) The system of claim 1, wherein the differential burst video transmission comprises a first data format, and said gateway platform is configured to broadcast the second data in a second data format different from the first data format.

35. (New) The system of claim 18, wherein said gateway platform is configured to broadcast the second data in a data format different from the graphics format.

REMARKS

In view of the above amendments and following remarks, favorable reconsideration is respectfully requested.

Claim Rejection – 35 USC §101

Claims 1-4, 8-9, 13-17, 26, 28-29 and 31-33 were rejected as being directed to non-statutory subject matter. The Examiner contends that those claims are software only and must recite hardware. Claim 1 requires a gateway platform. As discussed in the published application (paragraphs 0009 and 0015), the gateway platform is shown as element 10 (Fig. 1) and includes a server 134 and cache 136. Accordingly, it is respectfully submitted that those elements are hardware, especially when those terms are construed in light of the specification. Thus, claims 1-9 and 13-17 recite patentable subject matter. Claims 25-29 have been cancelled, so the rejection is moot as to those claims.

Claim Rejections – 35 U.S.C. §103

The Examiner rejects claims 1, 2, 4, 8-17, 26, 28, 32, and 33 under 35 U.S.C. §103 as unpatentable over *Daniels* (Pub. 2003/0074672) in view of *Liebowitz* (U.S. Patent No. 5,812,545); rejects claims 3 and 18-24 as obvious over *Daniels*, *Liebowitz*, and *Myers* (Pub. 2010/0228875); rejects claims 21-24 and 31 over *Daniels*, *Brown* (Pub. No. 2003/0128234) and *Liebowitz*; and rejects claims 29-30 over *Daniels*, *Liebowitz* and *well known prior art*.

Satellite communication is expensive and has limited channels. Accordingly, to transmit large amounts of data (such as data from the Internet 150 – FIG. 1) from a first computer (such as a gateway server 130 – FIG. 1) to a second computer 104 via satellite 102, requires careful planning since current satellite capacity cannot support current Internet usage. Accordingly, the present invention solves that problem by converting web pages to uniform graphic pages that are smaller in size. To do so, however, tag data is created of the actionable areas of a web page. Thus, for instance, when a web page displays a link, the system will know to access that link when the user clicks on the area of the displayed page where the link is presented. That tag data is transmitted over a bi-directional tag channel (Tcc 124). (See ¶0050-51.)

Transmission via satellite is further made possible by regularly broadcasting certain information (such as popular web sites) over dedicated broadcast channels (Bcc 120) to the end user computers 104, which stores that information in cache. The end user computer 104 can retrieve that cached information when the user requests it, without having to request that information to be re-transmitted over the satellite. This eliminates two satellite communications: the user's request and the requested information.

However, that only saves bandwidth when the requested information is a popular web site. The system also needs to be able to transmit less-frequently requested information (and certain other data) in real time. That information is not broadcast, but is instead sent on a separate channel (DBVcc 122) using Differential Burst Video.

With respect to the independent claims, the Examiner acknowledges that *Daniels* does not teach broadcasting data via satellite using differential burst video transmission, but instead relies on *Liebowitz* to teach that feature.

The present invention has the goal of transmitting Internet data *via satellite*. As noted above, satellite is expensive and has limited channels. The present invention enables large amounts of data to be sent via satellite in a cost-effective manner. Namely, popular websites/data are transmitted over a broadcast channel to all users where they are cached and immediately available to the user. And, less-frequently accessed websites/data are transmitted over a separate channel only to the specific requesting user.

Daniels and *Liebowitz* have completely different goals than the present invention. *Daniels* is an Internet gateway system that transmits information from an Internet gateway to local wireless devices. *Daniels* does not teach communication over satellite, and in fact makes no mention of a satellite. On the other hand, *Liebowitz* seeks to provide full mesh satellite capabilities by organizing bursts (see claims).

Consequently, neither *Daniels* nor *Liebowitz* attempts to transmit Internet data in the manner claimed. Namely, the prior art does not teach transmitting first data over a first satellite channel using differential burst video transmission to only one of a plurality of second computers; and also broadcasting second data over a second satellite communication channel in a different format (see new claim 34).

Since the present invention has a different goal than both *Daniels* and *Liebowitz*, it is respectfully submitted that it is not obvious to use the transmission format of *Liebowitz* in the system of *Daniels*, as the Examiner contends. There is not suggestion in either reference that transmission over two separate satellite channels as claimed, is either desirable or possible. The Examiner is without any basis to conclude that *Daniels* can be implemented in a satellite environment. Accordingly, the present invention is patentable over the prior art.

In addition, claims 1, 18 require that the system capture both first and second data from a first set of computers. The system transmits the first data over a first satellite communication channel using differential burst video transmission to no more than one of the second computers (*e.g.*, the data sent over the DVBcc channel); and *broadcasts* the second data over a second communications channel different from the first communications channel to the plurality of second computers (*e.g.*, the broadcast data sent over the Bcc channel).

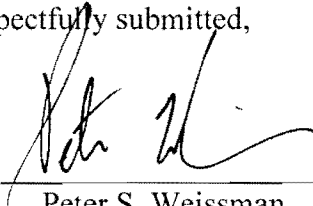
In the event there are any questions relating to this Amendment or to the application in general, it would be appreciated if the Examiner would telephone the undersigned attorney concerning such questions so that the prosecution of this application may be expedited.

Please charge any shortage or credit any overpayment of fees to BLANK ROME LLP, Deposit Account No. 23-2185 (Ref. 113776.00126). In the event that a petition for an extension of time is required to be submitted herewith and in the event that a separate petition does not accompany this response, Applicant hereby petitions under 37 CFR 1.136(a) for an extension of

time for as many months as are required to render this submission timely. Any fee due is authorized above.

Respectfully submitted,

By:



Peter S. Weissman
Reg. No. 40,220

Date: June 6, 2013

BLANK ROME LLP
600 New Hampshire Ave., N. W.
Washington, D.C. 20037
Tel.: (202) 772-5805
Fax: (202) 572-8398

Electronic Patent Application Fee Transmittal

Application Number:	13410599			
Filing Date:	02-Mar-2012			
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/April Henderson			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Extension - 3 months with \$0 paid	2253	1	700	700

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	2801	1	600	600
Total in USD (\$)				1300

Electronic Acknowledgement Receipt

EFS ID:	15969219
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/April Henderson
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	06-JUN-2013
Filing Date:	02-MAR-2012
Time Stamp:	15:18:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1300
RAM confirmation Number	1866
Deposit Account	232185
Authorized User	WEISSMAN, PETER S

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

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Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		RCE_Amendment.pdf	1760363	yes	16
			80b204275974f2bc8246df1ff71826215a75a52e		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Request for Continued Examination (RCE)		1	1	
	Extension of Time		2	2	
	Fee Worksheet (SB06)		3	3	
	Amendment After Final		4	4	
	Claims		5	11	
	Applicant Arguments/Remarks Made in an Amendment		12	16	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32370	no	2
			1ee26ef5644ecd9a766f58875e94b01709c46db8		
Warnings:					
Information:					
Total Files Size (in bytes):			1792733		

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/410,599	Filing Date 03/02/2012	☐ To be Mailed
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 ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	30 minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
	06/06/2013	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	* 30 Minus	** 30	=	X \$ =
	Independent (37 CFR 1.16(h))	* 3 Minus	*** 4	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))				
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				
TOTAL ADD'L FEE					
	(Column 1)	(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	* Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))				
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				
TOTAL ADD'L FEE					

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** 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 number found in the appropriate box in column 1.

 LIE
/PEGGY YARBOROUGH/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/410,599

03/02/2012

Abel AVELLAN

113776.00126

9863

27557 7590 12/06/2012
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT

PAPER NUMBER

2452

MAIL DATE

DELIVERY MODE

12/06/2012

PAPER

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

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

Office Action Summary	Application No. 13/410,599	Applicant(s) AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 21 November 2012.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-4,8-24,26 and 28-33 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-4,8-24,26 and 28-33 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

DETAILED ACTION

1. Claims 1-4,8-24,26 and 28-33 are pending.

Response to Arguments

2. The applicant argues with respect to the 35 USC 101 rejections that claims 1-9, 13-17, and 25-29 recite statutory subject matter because claim 1 requires a gateway platform which according to the specification includes a cache and a server.
3. The examiner disagrees and notes while claims are interpreted in light of the specification, limitations from the specification are not read into the claims. Specifically, even assuming, for arguments sake, that a cache and a server are necessarily hardware, the claims recite neither element.
4. The applicant argues with respect to the prior art rejections of claim 1 that Daniels and Liebowitz fail to disclose communication over satellite and communication over two different channels.
5. The examiner disagrees. Daniels discloses a system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data over a first satellite communication channel to no more than one of the plurality of second computers to display the captured data in the video frame format ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), to capture the second data from at least one of the plurality of first computers and to broadcast the second data over a second communications channel to the plurality of second computers ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose broadcasting the data via satellite using differential burst video transmission. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses broadcasting video data via satellite using differential burst video transmission (Abstract).

6. The applicant further argues with respect to claims 21, 24, and 31 that the prior art of record does not disclose sending data over one satellite channel and tag data over a different satellite channel.

7. These arguments are moot in view of the new grounds of rejection provided below.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1-4, 8-9, 13-17, 26, 28-29, and 31-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

10. Claims 1-4, 8-9, 13-17, 26, 28-29, and 31-33 are directed to systems or architectures that when interpreted in light of the specification may read on software alone which is non-statutory. In order to comply, the claims must explicitly recite hardware (e.g. a processor, memory) so they may not be reasonably be interpreted as software alone.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 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 of this title, 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.

12. Claims **1,2,4,8-17,26,28,32, and 33** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels (US Pub. No. 2003/0074672) in view of Liebowitz et al (US Pat. 5,812,545).

13. As to claim 1, Daniels discloses a system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:
a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data over a first satellite communication channel to no more than one of the plurality of second computers to display the captured data in the video frame format ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), to capture the second data from at least one of the plurality of first computers and to broadcast the second data over a second communications channel to the plurality of second computers ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose broadcasting the data via satellite using differential burst video transmission. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses broadcasting the data via satellite using differential burst video transmission (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

14. As to claim 2, Daniels discloses the data is provided by the plurality of first computers in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format ([0018], gateway server sends captured video frames to other computers).

15. As to claim 4, Daniels discloses said gateway platform captures the entirety of the data to a video frame format ([0018], gateway server sends captured video frames to other computers).

16. As to claim 8, Daniels discloses each of the first computers is a server accessible through a global network, and the plurality of second computers are dumb terminals ([0028]).

17. As to claim 9, Daniels discloses the data is a web page and said gateway platform causes the plurality of second computers to display a virtual image of the web page ([0018]).

18. As to claim 10, Daniels discloses said gateway platform comprises a processor ([0018]).

19. As to claim 11, Daniels discloses said gateway platform comprises a storage device for storing the captured data ([0018]).

20. As to claim 12, Daniels discloses said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device ([0018]).

21. As to claim 13, Daniels discloses the second computers are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command ([0029]).

22. As to claim 14, Daniels discloses the location of the user input action command comprises an x coordinate and a y coordinate ([0019]).

23. As to claim 15, Daniels discloses the type of the user action input comprises a keyboard entry or a mouse entry ([0019]).

24. As to claim 16, Daniels discloses the user input action command comprises a mouse click, a scroll, or a typed key command ([0019]).

25. As to claim 17, Daniels discloses said gateway platform further receives the tag file and performs the user input action command on the first computer ([0019]).

26. As to claim 26, Daniels discloses said gateway platform having a master cache and said second computers each having a local cache, said gateway platform configured to synchronize the master cache via the second communications channel to the local cache of the second computers ([0087], lines 1-20).

27. As to claim 28, Daniels discloses the master cache includes most visited web pages and their sub-links ([0087], lines 1-20).

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28. As to claim 32, Liebowitz discloses the plurality of second computers are each configured to transmit a request for the first data to said gateway platform via satellite (Abstract).

29. As to claim 33, Daniels discloses said gateway platform is further configured to receive a request for data from the plurality of second computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data ([0087], lines 1-20).

30. Claims **3 and 18-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Liebowitz and in further view of Myers (US Pub No. 2010/0228875).

31. As to claim 18, Daniels discloses a system for presenting first and second web pages of at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server, create a web page image of the first web page in a graphics

format, store the web page image to said gateway storage device, and transmit the web page image to the user computer over a first communication channel ([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel"), said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer over a second satellite communication channel different than the first communication channel ([0018], gateway server sends captured video frames to other computers, further [0087] discloses the use of channels and specifically a "public channel" that is "simultaneously available to all display devices in the network").

But, Daniels does not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

But, Daniels and Liebowitz do not explicitly disclose the web pages accessed in an HTTP format.

However, Myers discloses a gateway processor and storage device accessing HTTP format web content, covert the HTTP format web content to a different graphics format and send the graphics format content to other devices ([0034]-[0035]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Liebowitz, and Myers in order to utilize the Daniel's system with the widely known and used format of HTTP thereby allowing its use for a greater portion of web content.

32. As to claim 3, it is rejected by a similar rationale to that set forth in claim 18's rejection.

33. As to claim 19, Daniels discloses gateway processor further configured to display the web page image at the user computer ([0018]).

34. As to claim 20, Daniels discloses a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user ([0087]).

35. Claims **21-24 and 31** are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view Brown (US Pub. No. 2003/0128234) in further view of Liebowitz.

36. As to claim 21, Daniels discloses a system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system a gateway storage device; and, a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page, transmit the web page image to the user computer over a first communication channel([0018], gateway server sends captured video frames to any number other computers; further [0087] discloses the use of channels and limiting the video frame to only one computer, i.e. the disclosed "private connection channel").

But, Daniels does not explicitly disclose creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from the first communication channel.

However, Brown discloses creating a tag file identifying an action point of the web page and a location of the action point, transmitting the tag file to the user computer over a second communication channel different from a first communication channel ([0056]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Brown in order to provide web page information on a customized basis.

But, Daniels and Brown do not explicitly disclose transmitting via a satellite using satellite communications channels. Daniels does disclose the use of known cellular and television transmission channels in [0087], but never mentions specific satellite channels.

However, Liebowitz discloses transmitting via a satellite using satellite communications channels (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels, Brown, and Liebowitz in order to provide a reliable, known method of transmission.

37. As to claim 22, Daniels discloses said gateway processor transmitting the tag file to the user computer to display the action point on the user computer ([0019]).

38. As to claim 23, Daniels discloses the tag file is synchronized with the web page image ([0019]).

39. As to claim 24, Daniels, Brown, and Liebowitz discloses there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web

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server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel (Brown discloses tag files [0056] and Liebowitz, Abstract discloses the satellite communications channels).

40. As to claim 31, it is rejected by a similar rationale to that set forth in claim 21's rejection.

41. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of Liebowitz and in further view what was well known in the art at the time of the invention.

42. As to claim 29, Daniels discloses the parent claim but does not disclose the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache. However Official Notice (see MPEP 2144.03) is taken that it

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was well known in the art at the time of the invention to have client specific caches in addition to a master cache with the local caches storing data not in the master cache as a means to increase efficiency.

43. As to claim 30, Daniels discloses the parent claim but does not disclose storing a replica of the master cache in a mobile storage device. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention storing a replica of the master cache in a mobile storage device as a means to increase efficiency and reliability.

Conclusion

44. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

45. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

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the statutory period for reply expire later than SIX MONTHS from the date of this final action.

46. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm.

47. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

48. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas J Dailey/
Examiner, Art Unit 2452

Application/Control Number: 13/410,599
Art Unit: 2452

Page 17

Notice of References Cited	Application/Control No. 13/410,599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0128234	07-2003	Brown et al.	345/744
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
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	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	5/16/2012	TJD
Keyword searching in EAST, see attached search history	5/16/2012	TJD
Keyword searching in EAST for amended subject matter, see attached search history	12/2/2012	TJD

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S5	2	("6697850" "7130908").PN.	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S6	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S7	0	differential burst video	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S8	1	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:15
S9	1	differential video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:18
S10	3	differential video transmission	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:18
S11	481	differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S12	0	burst differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S13	481	differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S14	178	differential near3 video near3 (send\$5 or transmit\$5)	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:20
S17	305	(gateway same (web or brows\$6) same (http) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:21
S18	7	(gateway with (web or brows\$6) with (convert\$5 or compress\$5) same (image or video) with (send\$6))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:32
S19	7	S18 not S6	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:33
S20	339	(gateway same (web or brows\$6) same (convert\$5 or compress\$5) same (image or video))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 18:06
S21	717	satellite same burst with transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
S22	40	satellite same burst with transmission same video	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
S23	2	"US 20120185785"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2012/12/01 16:57
S24	0	differential burst transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/01 17:38
S25	2	differential burst with transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/01 17:38
S26	3	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:02

S27	27	action (tag or label) with (web page or webpage or website or web site)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:12
S28	266	(tag or label) with (web page or webpage or website or web site) same channel	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:18
S29	8	(tag) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:19
S30	0	(label) with (web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:22
S31	148	(web page or webpage or website or web site) same channel same (transcode or encode or compress)	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:24
S32	0	(web page or webpage or website or web site) with channel with (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:25
S33	21	(web page or webpage or website or web site) same channel same (transcode or encode or compress) same satellite	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:25
S34	264	S28 not S33	US-PGPUB; USPAT	ADJ	ON	2012/12/02 10:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"13410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S2	14	"410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S3	0	(avellan and herischi).in.	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:06
S4	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:19

12/ 2/ 2012 2:55:00 PM
C:\Users\tdailey\ Documents\ EAST\ Workspaces\ 13-410599.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	)	Confirmation No. 9863
	)	
Abel AVELLAN	)	Group Art Unit: 2452
	)	
Serial No.: 13/410,599	)	Examiner: Thomas J. DAILEY
	)	
Filed: March 2, 2012	)	Atty. Dkt. No.: 113776.00126
	)	

For: SYSTEM AND METHOD FOR ZERO LATENCY
BROWSING

AMENDMENT

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

Sir:

In response to the Office Action dated May 21, 2012, kindly amend the above-identified patent application as follows:

Listing of Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A system for communicating first and second data from a plurality of first computers to a plurality of second computers remotely located from the plurality of first computers, the system comprising:

a gateway platform configured to capture the first data in a video frame format from at least one of the plurality of first computers, transmit the first data via satellite over a first satellite communication channel using a differential burst video transmission to no more than one of the plurality of ~~and cause the~~ second computers to display the captured data in the video frame format, to capture the second data from at least one of the plurality of first computers and to broadcast the second data via satellite over a second communications channel different from the first communications channel to the plurality of second computers.

2. (Currently Amended) The system of claim 1, wherein the data is provided by the plurality of first computers in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format.

3. (Original) The system of claim 2, wherein the first format is an HTTP format.
4. (Original) The system of claim 2, wherein said gateway platform captures the entirety of the data to a video frame format.
- 5-7. (Cancelled)
8. (Currently Amended) The system of claim 1, wherein each of the plurality of first computers is a server accessible through a global network, and the plurality of second computers ~~is~~are dumb terminals.
9. (Currently Amended) The system of claim 1, wherein the data is a web page and said gateway platform causes the plurality of second computers to display a virtual image of the web page.
10. (Original) The system of claim 1, wherein said gateway platform comprises a processor.
11. (Original) The system of claim 1, wherein said gateway platform comprises a storage device for storing the captured data.
12. (Original) The system of claim 1, wherein said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device.

13. (Currently Amended) The system of claim 1, wherein the plurality of second computers ~~is~~are configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command.

14. (Original) The system of claim 13, wherein the location of the user input action command comprises an x coordinate and a y coordinate.

15. (Original) The system of claim 13, wherein the type of the user action input comprises a keyboard entry or a mouse entry.

16. (Original) The system of claim 13, wherein the user input action command comprises a mouse click, a scroll, or a typed key command.

17. (Currently Amended) The system of claim 13, wherein said gateway platform further receives the tag file and performs the user input action command on the plurality of first computers.

18. (Currently Amended) A system for ~~virtually replicating a~~ presenting first and second web pages of an at least one web server on a user computer remotely located from the at least one web server, the system comprising:

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the first web page from the at least one web server in an HTTP format, create a web page image of the first web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer via satellite over a first satellite communication channel, said gateway processor further configured to access the second web page from the at least one web server and transmit the second web page to the user computer via satellite over a second satellite communication channel different than the first satellite communication channel.

19. (Original) The system of claim 18, said gateway processor further configured to display the web page image at the user computer.

20. (Original) The system of claim 18, further comprising a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user computers.

21. (Currently Amended) A system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system comprising:~~The system of claim 18~~

a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the

web page, further creating create a tag file identifying an action point of the website-web page and a location of the action point, transmit the web page image to the user computer via satellite over a first satellite communication channel, and transmit the tag file to the user computer via satellite over a second satellite communication channel different from the first satellite communication channel.

22. (Original) The system of claim 21, said gateway processor transmitting the tag file to the user computer to display the action point on the user computer.

23. (Original) The system of claim 22, wherein the tag file is synchronized with the web page image.

24. (Currently Amended) The system of claim 18, wherein there is a first web page and a second web page, a first tag file associated with the first web page, a second tag file associated with the second web page, and at least one web server, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers via satellite over the first satellite communication channel and the first tag file via satellite over the second satellite communication channel, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers via satellite over a third satellite communication channel different than the first and second satellite communication channels and the second tag file via satellite over the second satellite communication channel.

25. (Cancelled)

26. (Currently Amended) The system of claim 1, said gateway platform having a master cache and said second computers each having a local cache, said gateway platform configured to synchronize ~~A client server architecture that transmits information to multiple clients each having a local cache, the architecture comprising: a client server having a master cache, said client server synchronizing the master cache via a broadcast~~ the second communications channel to the local cache of the second computers ~~multiple clients.~~

27. (Cancelled)

28. (Currently Amended) The ~~architecture~~ system of claim 26, wherein the master cache includes most visited web pages and their sub-links.

29. (Currently Amended) The ~~architecture~~ system of claim 28, wherein the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache.

30. (Currently Amended) The ~~architecture~~ system of claim 26, further storing a replica of the master cache in a mobile storage device.

31. (New) The system of claim 13, wherein the tag file is transmitted over a third communications channel different from the first and second communications channels.

32. (New) The system of claim 1, wherein the plurality of second computers are each configured to transmit a request for the first data to said gateway platform via satellite.

33. (New) The system of claim 1, wherein said gateway platform is further configured to receive a request for data from the plurality of second computers, determine most frequently requested data, capture the requested data from at least one of the plurality of first computers, transmit the captured requested data as first data if it is determined that the requested data is not the most frequently requested data, and transmit the captured requested data as second data if it is determined that the requested data is the most frequently requested data.

REMARKS

In view of the above amendments and following remarks, favorable reconsideration is respectfully requested.

Double Patenting

Claims 1-30 are provisionally rejected for double patenting over claims 1-30 of the parent application 13/109,581. The claims of the two applications have been amended to no longer be identical. Accordingly, it is respectfully requested that the provisional rejection be withdrawn.

Claim Rejection – 35 USC §101

Claims 1-9, 13-17 and 25-29 were rejected as being directed to non-statutory subject matter. The Examiner contends that those claims are software only and must recite hardware. Claim 1 requires a gateway platform. As discussed in the published application (paragraphs 0009 and 0015), the gateway platform is shown as element 10 (Fig. 1) and includes a server 134 and cache 136. Accordingly, it is respectfully submitted that those elements are hardware, especially when those terms are construed in light of the specification. Thus, claims 1-9 and 13-17 recite patentable subject matter. Claims 25-29 have been cancelled, so the rejection is moot as to those claims.

Claim Rejections – 35 U.S.C. §§102/103

The Examiner rejects claims 1, 2, 4, 6, 8-17 and 26-28 under 35 U.S.C. §102 as anticipated by *Daniels* (Pub. 2003/0074672); rejects claims 3 and 18-24 as obvious over *Daniels* in view of *Myers* (Pub. 2010/0228875); rejects claims 5, 7 and 25 over *Daniels* and *Liebowitz* (U.S. Patent No. 5,812,545); and rejects claims 29-30 over *Daniels* and *well known prior art*.

Initially, it is noted that the publication number of *Daniels* was incorrectly stated in the Office Action. The Applicant understands that the §102 rejection based on *Daniels* (Pub. 2003/0074672) and not *Myers* (Pub. 2010/0228875).

Satellite communication is expensive and has limited channels. Accordingly, to transmit large amounts of data (such as data from the Internet 150 – FIG. 1) from a first computer (such as a gateway server 130 – FIG. 1) to a second computer 104 via satellite 102, requires careful planning since current satellite capacity cannot support current Internet usage. Accordingly, the present invention solves that problem by converting web pages to uniform graphic pages that are smaller in size. To do so, however, tag data is created of the actionable areas of a web page. Thus, for instance, when a web page displays a link, the system will know to access that link when the user clicks on the area of the displayed page where the link is presented. That tag data is transmitted over a bi-directional tag channel (Tcc 124). (See ¶0050-51.)

Transmission via satellite is further made possible by regularly broadcasting certain information (such as popular web sites) over dedicated broadcast channels (Bcc 120) to the end user computers 104, which stores that information in cache. The end user computer 104 can

retrieve that cached information when the user requests it, without having to request that information to be re-transmitted over the satellite. This eliminates two satellite communications: the user's request and the requested information.

However, that only saves bandwidth when the requested information is a popular web site. The system also needs to be able to transmit less-frequently requested information (and certain other data) in real time. That information is not broadcast, but is instead sent on a separate channel (DBVcc 122) using Differential Burst Video.

With respect to claims 1, 18, the Examiner contends that *Daniels* teaches a system that captures data in a video frame format from a first computer and sends it for display on a second computer. In response, claim 1 has been amended to include the subject matter of claims 5-7, which have been cancelled. Accordingly, claim 1 requires a system that transmits data *via satellite*. In contrast, *Daniels* is an Internet gateway system that transmits information from an Internet gateway to local wireless devices. However, *Daniels* does not teach communication over satellite, and in fact makes no mention of a satellite.

In addition, claims 1, 18 require that the system capture both first and second data from a first set of computers. The system transmits the first data over a first satellite communication channel using differential burst video transmission to no more than one of the second computers (*e.g.*, the data sent over the DVBcc channel); and *broadcasts* the second data over a second

communications channel different from the first communications channel to the plurality of second computers (*e.g.*, the broadcast data sent over the Bcc channel).

Daniels does not teach transmission of data over two different channels. *Daniels* also does not teach transmitting first data over a first satellite channel to only one second computer and broadcasting second data over a second satellite channel. Moreover, *Daniels* does not teach sending data over one satellite channel and tag data over a different satellite channel (claims 21, 24, 31).

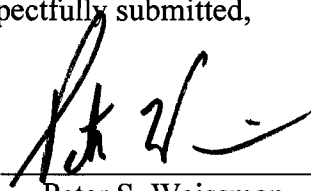
The prior art to *Myers* and *Liebowitz* do not cure the deficiencies of *Daniels*. Accordingly, it is respectfully submitted that the present invention is patentable over *Daniels*, whether considered alone or in combination with *Myers* and/or *Liebowitz*.

In the event there are any questions relating to this Amendment or to the application in general, it would be appreciated if the Examiner would telephone the undersigned attorney concerning such questions so that the prosecution of this application may be expedited.

Please charge any shortage or credit any overpayment of fees to BLANK ROME LLP, Deposit Account No. 23-2185 (Ref. 113776.00126). In the event that a petition for an extension of time is required to be submitted herewith and in the event that a separate petition does not

accompany this response, Applicant hereby petitions under 37 CFR 1.136(a) for an extension of time for as many months as are required to render this submission timely. Any fee due is authorized above.

Respectfully submitted,

By: 

Peter S. Weissman
Reg. No. 40,220

Date: November 21, 2012

BLANK ROME LLP
600 New Hampshire Ave., N. W.
Washington, D.C. 20037
Tel.: (202) 772-5805
Fax: (202) 572-8398

Electronic Patent Application Fee Transmittal

Application Number:	13410599			
Filing Date:	02-Mar-2012			
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/April Henderson			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Extension - 3 months with \$0 paid	2253	1	645	645

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				645

Electronic Acknowledgement Receipt

EFS ID:	14281785
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman
Filer Authorized By:	
Attorney Docket Number:	113776.00126
Receipt Date:	21-NOV-2012
Filing Date:	02-MAR-2012
Time Stamp:	10:02:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$645
RAM confirmation Number	9215
Deposit Account	232185
Authorized User	

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

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Transmittal.pdf	32845	no	1
			43fc4a9cbb8d2253f7160f54e1a6f02c42fd239b		

Warnings:

Information:

2	Extension of Time	EOT.pdf	37127	no	1
			cd3b668625c4424b223a659571700ac1fad5f36		

Warnings:

Information:

3		Amendment.pdf	173426	yes	13
			3d0b3c325b677b54dce4a370a57a798d8983c227		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	13

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	30493	no	2
			a2abdaf9ceb20ebe43b4032ecea03704d38f585		

Warnings:

Information:

Total Files Size (in bytes):			273891
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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

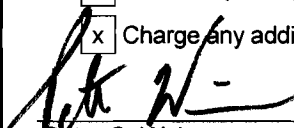
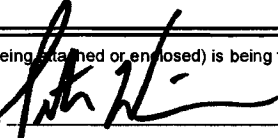
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

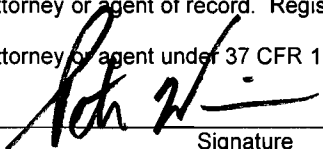
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition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

New International Application Filed with the USPTO as a Receiving Office

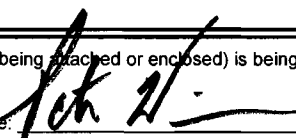
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will 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.

AMENDMENT TRANSMITTAL LETTER			Docket No. 113776.00126		
Application No. 13/410,599-Conf. #9863	Filing Date March 2, 2012	Examiner T. J. Dailey	Art Unit 2452		
Applicant(s): Abel AVELLAN et al.					
Invention: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING					
TO THE COMMISSIONER FOR PATENTS					
Transmitted herewith is an amendment in the above-identified application.					
The fee has been calculated and is transmitted as shown below.					
CLAIMS AS AMENDED					
	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	
Total Claims	28	- 30 =	0	x 31.00	0.00
Independent Claims	3	- 4 =	0	x 125.00	0.00
Multiple Dependent Claims (check if applicable) ☐					
Other fee (please specify): Extension for response within third month					645.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:					645.00
☐ Large Entity ☒ Small Entity					
☐ No additional fee is required for this amendment.					
☒ Please charge Deposit Account No. <u>23-2185</u> in the amount of \$ <u>645.00</u> .					
☐ A check in the amount of \$ _____ to cover the filing fee is enclosed.					
☐ Payment by credit card. Form PTO-2038 is attached.					
☒ The Director is hereby authorized to charge and credit Deposit Account No. <u>23-2185</u> as described below. A duplicate copy of this sheet is enclosed.					
☒ Credit any overpayment.					
☒ Charge any additional filing or application processing fees required under 37 CFR 1.16 and 1.17.					
 Peter S. Weissman Attorney/Agent Reg. No.: 40,220			Dated: <u>November 21, 2012</u>		
BLANK ROME LLP 600 New Hampshire Ave., NW Washington, DC 20037 (202) 772-5800					
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 CFR § 1.6(a)(4). Dated: November 21, 2012 Signature:  (Peter S. Weissman) 					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 113776.00126																									
Application Number 13/410,599-Conf. #9863		Filed March 2, 2012																									
For SYSTEM AND METHOD FOR ZERO LATENCY BROWSING																											
Art Unit 2452		Examiner T. J. Dailey																									
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;"><u>Fee</u></th><th style="width: 15%; text-align: center;"><u>Small Entity Fee</u></th><th style="width: 30%;"></th></tr></thead><tbody><tr><td>☐ One month (37 CFR 1.17(a)(1))</td><td style="text-align: center;">\$150</td><td style="text-align: center;">\$75</td><td>\$ _____</td></tr><tr><td>☐ Two months (37 CFR 1.17(a)(2))</td><td style="text-align: center;">\$570</td><td style="text-align: center;">\$285</td><td>\$ _____</td></tr><tr><td>☒ Three months (37 CFR 1.17(a)(3))</td><td style="text-align: center;">\$1,290</td><td style="text-align: center;">\$645</td><td>\$ 645.00</td></tr><tr><td>☐ Four months (37 CFR 1.17(a)(4))</td><td style="text-align: center;">\$2,010</td><td style="text-align: center;">\$1,005</td><td>\$ _____</td></tr><tr><td>☐ Five months (37 CFR 1.17(a)(5))</td><td style="text-align: center;">\$2,730</td><td style="text-align: center;">\$1,365</td><td>\$ _____</td></tr></tbody></table>					<u>Fee</u>	<u>Small Entity Fee</u>		☐ One month (37 CFR 1.17(a)(1))	\$150	\$75	\$ _____	☐ Two months (37 CFR 1.17(a)(2))	\$570	\$285	\$ _____	☒ Three months (37 CFR 1.17(a)(3))	\$1,290	\$645	\$ 645.00	☐ Four months (37 CFR 1.17(a)(4))	\$2,010	\$1,005	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$2,730	\$1,365	\$ _____
	<u>Fee</u>	<u>Small Entity Fee</u>																									
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☒ Applicant claims small entity status. See 37 CFR 1.27.																											
☐ 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 <u>23-2185</u>																											
☐ 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/inventor.																											
☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).																											
☒ attorney or agent of record. Registration Number <u>40,220</u>																											
☐ attorney or agent under 37 CFR 1.34. Registration number _____																											
 _____ Signature		November 21, 2012 _____ Date																									
Peter S. Weissman _____ Typed or printed name		(202) 772-5800 _____ Telephone Number																									
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.																											

☐ *Total of <u>1</u> 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 CFR § 1.6(a)(4).	
Dated: November 21, 2012	Signature:  (Peter S. Weissman)

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 13/410,599		Filing Date 03/02/2012		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☒ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=	OR	X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL		TOTAL			
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	11/21/2012	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 28	Minus	** 30	= 0	X \$31 =	0	OR	X \$	=
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 4	= 0	X \$125 =	0	OR	X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	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))										
☐ 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 number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/LINDA BADIE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/410,599	03/02/2012	Abel AVELLAN	113776.00126

CONFIRMATION NO. 9863

PUBLICATION NOTICE



OC000000055475044

27557
BLANK ROME LLP
WATERGATE
600 NEW HAMPSHIRE AVENUE, N.W.
WASHINGTON, DC 20037

Title:SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

Publication No.US-2012-0185785-A1

Publication Date:07/19/2012

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 Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/410,599

03/02/2012

Abel AVELLAN

113776.00126

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05/21/2012

BLANK ROME LLP

WATERGATE

600 NEW HAMPSHIRE AVENUE, N.W.

WASHINGTON, DC 20037

EXAMINER

DAILEY, THOMAS J

ART UNIT

PAPER NUMBER

2452

MAIL DATE

DELIVERY MODE

05/21/2012

PAPER

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

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

Office Action Summary	Application No. 13/410,599	Applicant(s) AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 02 March 2012.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-30 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-30 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/22/2012</u> . | 6) ☐ Other: ____. |

DETAILED ACTION

1. Claims 1-30 are pending.

Double Patenting

2. Claims 1-30 provisionally rejected on the ground of nonstatutory double patenting over claims 1-30 of copending Application No. 13/109581. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.
3. The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as the claims are identical.
4. Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Art Unit: 2452

6. Claims 1-9, 13-17, and 25-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
7. Claims 1-9, 13-17, and 25-29 are directed to systems or architectures that when interpreted in light of the specification may read on software alone which is non-statutory. In order to comply, the claims must explicitly recite hardware (e.g. a processor, memory) so they may not be reasonably be interpreted as software alone.

Claim Rejections - 35 USC § 102

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

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1, 2, 4, 6, 8-17, and 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels (US Pub. No. 2010/0228875).
10. As to claim 1, Daniels discloses a system for communicating data from a first computer to a second computer remotely located from the first computer, the system comprising:

a gateway platform configured to capture the data in a video frame format, and cause the second computer to display the captured data in the video frame format ([0018], gateway server sends captured video frames to other computers)

11. As to claim 2, Daniels discloses the data is provided by the first computer in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format ([0018], gateway server sends captured video frames to other computers).

12. As to claim 4, Daniels discloses said gateway platform captures the entirety of the data to a video frame format ([0018], gateway server sends captured video frames to other computers).

13. As to claim 6, Daniels discloses there are a plurality of second computers and said gateway platform is further configured to broadcast the captured data to the plurality of second computers ([0087]).

14. As to claim 8, Daniels discloses the first computer is a server accessible through a global network, and the second computer is dumb terminal ([0028]).

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15. As to claim 9, Daniels discloses the data is a web page and said gateway platform causes the second computer to display a virtual image of the web page ([0018]).

16. As to claim 10, Daniels discloses said gateway platform comprises a processor ([0018]).

17. As to claim 11, Daniels discloses said gateway platform comprises a storage device for storing the captured data ([0018]).

18. As to claim 12, Daniels discloses said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage device ([0018]).

19. As to claim 13, Daniels discloses the second computer is configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command ([0029]).

20. As to claim 14, Daniels discloses the location of the user input action command comprises an x coordinate and a y coordinate ([0019]).

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21. As to claim 15, Daniels discloses the type of the user action input comprises a keyboard entry or a mouse entry ([0019]).

22. As to claim 16, Daniels discloses the user input action command comprises a mouse click, a scroll, or a typed key command ([0019]).

23. As to claim 17, Daniels discloses said gateway platform further receives the tag file and performs the user input action command on the first computer ([0019]).

24. As to claim 26, Daniels discloses a client server architecture that transmits information to multiple clients each having a local cache, the architecture comprising: a client server having a master cache, said client server synchronizing the master cache via a broadcast channel to the local cache of the multiple clients ([0087], lines 1-20).

25. As to claim 27, Daniels discloses the information comprises a complete web page, wherein the client only displays a portion of the complete web page ([0018]).

26. As to claim 28, Daniels discloses the master cache includes most visited web pages and their sub-links ([0087], lines 1-20).

Claim Rejections - 35 USC § 103

27. The following is a quotation of 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 of this title, 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.

28. Claims 3 and 18-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of Myers (US Pub No. 2010/0228875).

29. As to claim 18, Daniels discloses a system for virtually replicating a web page of a web server on a user computer remotely located from the web server, the system comprising: a gateway storage device; and, a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server, create a web page image of the web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer ([0018], gateway server sends captured video frames of retrieved web pages to other computers).

But, Daniels does not explicitly disclose the web pages are in an HTTP format.

However, Myers discloses a gateway processor and storage device accessing HTTP format web content, covert the HTTP format web content to a different graphics format and send the graphics format content to other devices ([0034]-[0035]).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Myers in order to utilize the Daniel's system with the widely known and used format of HTTP thereby allowing its use for a greater portion of web content.

30. As to claim 3, it is rejected by a similar rationale to that set forth in claim 18's rejection.

31. As to claim 19, Daniels discloses gateway processor further configured to display the web page image at the user computer ([0018]).

32. As to claim 20, Daniels discloses a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user ([0087]).

33. As to claim 21, Daniels discloses said gateway processor further creating a tag file identifying an action point of the website and a location of the action point ([0019]).

34. As to claim 22, Daniels discloses said gateway processor transmitting the tag file to the user computer to display the action point on the user computer ([0019]).

35. As to claim 23, Daniels discloses the tag file is synchronized with the web page image ([0019]).

36. As to claim 24, Daniels discloses there is a first web page and a second web page, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers ([0087]).

37. Claims 5, 7, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of Liebowitz et al (US Pat. 5,812,545).

38. As to claim 25, Daniels discloses a client server architecture for browsing information including internet, video, and other cloud content, the architecture comprising: a client server browsing the information and transmitting the information to a client ([0018]).

But Daniels does not disclose using a differential burst video transmission.

However, Liebowitz discloses using differential burst video transmission to transmit data (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

39. As to claim 5, Daniels discloses there are a plurality of second computers and said gateway platform is further configured to transmit the data to no more than one of the second computers for display in substantially real time ([0018]).

But, Daniels does not disclose transmitting over a satellite using a differential burst video transmission.

However, Liebowitz discloses transmitting over a satellite using a differential burst video transmission (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

40. As to claim 7, Daniels discloses said gateway platform is further configured to broadcast the captured data to the plurality of second computers ([0018]).

But, Daniels does not disclose transmitting over a satellite.

However, Liebowitz discloses transmitting over a satellite (Abstract).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Daniels and Liebowitz in order to provide a reliable, known method of transmission.

41. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels in view of what was well known in the art at the time of the invention.

42. As to claim 29, Daniels discloses the parent claim but does not disclose the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention to have client specific caches in addition to a master cache with the local caches storing data not in the master cache as a means to increase efficiency.

43. As to claim 30, Daniels discloses the parent claim but does not disclose storing a replica of the master cache in a mobile storage device. However Official Notice (see MPEP 2144.03) is taken that it was well known in the art at the time of the invention storing a replica of the master cache in a mobile storage device as a means to increase efficiency and reliability.

Conclusion

44. For additional prior art made of record and not relied upon but considered pertinent to applicant's disclosure see attached Notice of References Cited, Form PTO-892.
45. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Dailey whose telephone number is 571-270-1246. The examiner can normally be reached on Monday thru Friday; 9:00am - 5:00pm.
46. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
47. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 13/410,599
Art Unit: 2452

Page 13

/Thomas J Dailey/
Examiner, Art Unit 2452

Notice of References Cited	Application/Control No. 13/410,599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.	
	Examiner THOMAS DAILEY	Art Unit 2452	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2001/0018703	08-2001	Miyazawa et al.	709/203
*	B	US-2002/0031120	03-2002	Rakib, Selim Shlomo	370/386
*	C	US-2003/0074672	04-2003	Daniels, John	725/110
*	D	US-2010/0228875	09-2010	Myers, Robert Linwood	709/231
*	E	US-5,801,679	09-1998	McCain, William C.	715/856
*	F	US-5,812,545	09-1998	Liebowitz et al.	370/337
*	G	US-7,836,470	11-2010	Ortega Rodriguez et al.	725/63
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	O					
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	Q					
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	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.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/410,599-Conf. #9863
				Filing Date	March 2, 2012
				First Named Inventor	Abel AVELLAN
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	113776.00126

[illegible][illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 CFR § 1.6(a)(4).

Dated: March 22, 2012

Electronic Signature for Peter S. Weissman: /Peter S. Weissman/

113776.00126/36175607v.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.D./

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	113776.00126

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C	Armon, A., et al., "Cache Satellite Distribution Systems: Modeling and Analysis"; School of Computer Science, Tel Aviv University, Tel Aviv, Israel; 2003 IEEE (11 pages)	

Examiner Signature	/Thomas Dailey/	Date Considered	05/17/2012
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	717	satellite same burst with transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
L2	40	satellite same burst with transmission same video	US-PGPUB; USPAT	ADJ	ON	2012/05/17 08:42
S5	2	("6697850" "7130908").PN.	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S6	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S7	0	differential burst video	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:12
S8	1	burst video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:15
S9	1	differential video transmission	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:18
S10	3	differential video transmission	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:18
S11	481	differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S12	0	burst differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S13	481	differential video	US-PGPUB; USPAT	NEAR	ON	2012/05/16 15:19
S14	178	differential near3 video near3 (send\$5 or transmit\$5)	US-PGPUB; USPAT	ADJ	ON	2012/05/16 15:20
S17	305	(gateway same (web or brows\$6) same (http) with (video or image or stream))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:21
S18	7	(gateway with (web or brows\$6) with (convert\$5 or compress\$5) same (image or video) with (send\$6))	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:32
S19	7	S18 not S6	US-PGPUB; USPAT	ADJ	ON	2012/05/16 16:33
S20	339	(gateway same (web or brows\$6) same (convert\$5 or compress\$5) same (image or	US-PGPUB;	ADJ	ON	2012/05/16 18:06

		(video))	USPAT			
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"13410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S2	14	"410599"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:05
S3	0	(avellan and herischi).in.	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:06
S4	7	(gateway same (web or brows\$6) same (http) with (conver\$6) with (video or image or stream))	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/05/16 09:19

5/ 17/ 2012 9:30:57 AM
C:\ Users\ tdailey\ Documents\ EAST\ Workspaces\ 13-410599.wsp

<i>Search Notes</i> 	Application/Control No. 13410599	Applicant(s)/Patent Under Reexamination AVELLAN ET AL.
	Examiner THOMAS DAILEY	Art Unit 2452

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	5/16/2012	TJD
Keyword searching in EAST, see attached search history	5/16/2012	TJD

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/410,599	03/02/2012	Abel AVELLAN	113776.00126	9863
27557 7590 04/04/2012 BLANK ROME LLP WATERGATE 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037			EXAMINER VU, KIEU D	
			ART UNIT 2173	PAPER NUMBER
			MAIL DATE 04/04/2012	DELIVERY MODE PAPER

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

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

**Decision Granting Request for
Prioritized Examination
(Track I or After RCE)**

Application No.: 13410599

1. THE REQUEST FILED 3/2/2012 IS **GRANTED**.

The above-identified application has met the requirements for prioritized examination

- A. ☒ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

- A. filing a **petition for extension of time** to extend the time period for filing a reply;
B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
C. filing a **request for continued examination**;
D. filing a notice of appeal;
E. filing a request for suspension of action;
F. mailing of a notice of allowance;
G. mailing of a final Office action;
H. completion of examination as defined in 37 CFR 41.102; or
I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Mano Padmanabhan at 571-272-4210. In his/her absence, calls may be directed to Kakali Chaki, 571-272-3719.

/Mano Padmanabhan/

Supervisory Patent Examiner, AU2188

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
13/410,599

APPLICATION AS FILED - PART I

(Column 1)		(Column 2)
FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(j))	30 minus 20 =	* 10
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

* If the difference in column 1 is less than zero, enter "0" in column 2.

SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	95
N/A	310
N/A	125
x 30 =	300
x 125 =	125
	0.00
	0.00
TOTAL	955

OR

OTHER THAN SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR

OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
13/410,599	03/02/2012	2447	1255	113776.00126	30	4

CONFIRMATION NO. 9863

27557

BLANK ROME LLP

WATERGATE

600 NEW HAMPSHIRE AVENUE, N.W.

WASHINGTON, DC 20037

FILING RECEIPT



OC000000053148394

Date Mailed: 03/22/2012

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**

Applicant(s)

Abel AVELLAN, Miami, FL;

Payam HERISCHI, Miami, FL;

Assignment For Published Patent Application

EMC SatCom Technologies, Inc., Miami, FL

Power of Attorney: The patent practitioners associated with Customer Number 27557

Domestic Priority data as claimed by applicant

This application is a CON of 13/109,581 05/17/2011

which claims benefit of 61/434,089 01/19/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 03/15/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/410,599**

Projected Publication Date: 07/19/2012

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

Preliminary Class

709

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 (1-866-999-4158).

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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.

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				Application Number	13/410,599-Conf. #9863
				Filing Date	March 2, 2012
				First Named Inventor	Abel AVELLAN
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	113776.00126

[illegible][illegible]

Examiner Signature		Date Considered	
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Dated: March 22, 2012

Electronic Signature for Peter S. Weissman: /Peter S. Weissman/

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/410,599-Conf. #9863
				Filing Date	March 2, 2012
				First Named Inventor	Abel AVELLAN
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	113776.00126

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C	Armon, A., et al., "Cache Satellite Distribution Systems: Modeling and Analysis"; School of Computer Science, Tel Aviv University, Tel Aviv, Israel; 2003 IEEE (11 pages)	

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

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Electronic Acknowledgement Receipt

EFS ID:	12372952
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/April Henderson
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	22-MAR-2012
Filing Date:	02-MAR-2012
Time Stamp:	17:31:05
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		126.pdf	74749 98e977d41d22bc195a799bc7140c5636652433aa	yes	4

	Multipart Description/PDF files in .zip description				
	Document Description			Start	End
	Transmittal Letter			1	2
	Information Disclosure Statement (IDS) Form (SB08)			3	4
Warnings:					
Information:					
2	Non Patent Literature	Armon.pdf	905964	no	11
			21b18bc5eeb34c141d81ec40a627d66bbe5e20c		
Warnings:					
Information:					
Total Files Size (in bytes):				980713	
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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Dated: March 22, 2012
Electronic Signature for Peter S. Weissman: /Peter S. Weissman/

Docket No.: 113776.00126
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Abel AVELLAN et al.

Application No.: 13/410,599

Confirmation No.: 9863

Filed: March 2, 2012

Art Unit: N/A

For: SYSTEM AND METHOD FOR ZERO
LATENCY BROWSING

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Madam:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Application also identifies the following co-pending applications: 13/285,870 and 13/424,012.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

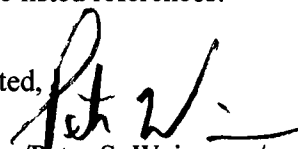
The Examiner is advised that the following co-pending application contain subject matter that may be related to the present application. By bringing this application to the Examiner's attention, Applicant does not waive the confidentiality provisions of 35 U.S.C. § 122.

Application Number	Filing Date	Art Unit
13/109,581	May 17, 2011	2447

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Dated: March 22, 2012

Respectfully submitted,



Electronic signature: /Peter S. Weissman/

Peter S. Weissman

Registration No.: 40,220

BLANK ROME LLP

Correspondence Customer Number: 27557

Attorney for Applicant

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UTILITY PATENT APPLICATION TRANSMITTAL (ONLY FOR NEW NONPROVISIONAL APPLICATIONS UNDER 37 CFR 1.53(B))		Attorney Docket No. 113776.00126	
		First Inventor Abel AVELLAN	
		Title SYSTEM AND METHOD FOR ZERO LATENCY BROWSING	
		Express Mail Label No. _____	

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	Commissioner for Patents ADDRESS TO: P.O. Box 1450 Alexandria, VA 22313-1450
1. ☒ Fee Transmittal Form (e.g., PTO/SB/17) 2. ☒ Applicant claims small entity status. See 37 CFR 1.27. 3. ☒ Specification [Total Pages 32] Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP 608.01(a)) 4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 2] 5. Oath or Declaration [Total Sheets 2] a. ☐ Newly executed (original or copy) b. ☒ A copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. ☒ Application Data Sheet. See 37 CFR 1.76 7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) ☐ Landscape Table on CD 8. 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	ACCOMPANYING APPLICATION PARTS 9. ☐ Assignment Papers (cover sheet & document(s)) Name of Assignee 10. ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney (when there is an assignee) 11. ☐ English Translation Document (if applicable) 12. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached 13. ☒ Preliminary Amendment 14. ☐ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 17. ☒ Other: Certification and Request for Prioritized Examination

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation
 ☐ Divisional
 ☐ Continuation-in-part (CIP)
 of prior application No.: **13/109581**
 Prior application information: Examiner **Not Yet Assigned**
 Art Unit: **N/A**

19. CORRESPONDENCE ADDRESS

☒ The address associated with Customer Number: **27557**
 OR
☐ Correspondence address below

Name			
Address			
City	State	Zip Code	
Country	Telephone	Email	

Signature	/Peter S. Weissman/	Date	March 2, 2012
Name (Print/Type)	Peter S. Weissman	Registration No. (Attorney/Agent)	40,220

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	113776.00126
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING		
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.)
--------------------------	---

Applicant Information:

Applicant 1						Remove	
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name		Family Name		Suffix	
	Abel			AVELLAN			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service							
City	Miami	State/Province	FL	Country of Residence i		US	
Citizenship under 37 CFR 1.41(b) i		US					
Mailing Address of Applicant:							
Address 1		333 South Hibiscus Drive					
Address 2							
City	Miami	State/Province		FL			
Postal Code		33139		Country i	US		
Applicant 2						Remove	
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name		Family Name		Suffix	
Mr.	Payam			HERISCHI			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service							
City	Miami	State/Province	FL	Country of Residence i		US	
Citizenship under 37 CFR 1.41(b) i		US					
Mailing Address of Applicant:							
Address 1		951 Brickell Avenue, #3710					
Address 2							
City	Miami	State/Province		FL			
Postal Code		33131		Country i	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.							
Add							

Correspondence 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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	113776.00126	
		Application Number		
Title of Invention	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
Customer Number	27557			
Email Address	Weissman@blankrome.com		Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING			
Attorney Docket Number	113776.00126	Small Entity Status Claimed	☒	
Application Type	Nonprovisional			
Subject Matter	Utility			
Suggested Class (if any)		Sub Class (if any)		
Suggested Technology Center (if any)	N/A			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)		

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). Enter either 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	27557		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13109581	2011-05-17
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13109581	non provisional of	61434089	2011-01-19

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	113776.00126
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING		

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☐ Yes ☐ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1

Remove

If the Assignee is an Organization check here. ☒

Organization Name EMC SatCom Technologies, Inc.

Mailing Address Information:

Address 1	777 Brickell Avenue, Suite 1150		
Address 2			
City	Miami	State/Province	FL
Country ⁱ	US	Postal Code	33131
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.

Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Peter S. Weissman/		Date (YYYY-MM-DD)	2012-03-02	
First Name	Peter	Last Name	Weissman	Registration Number	40220

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	113776.00126
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR ZERO LATENCY BROWSING		

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.

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Abel AVELLAN	Nonprovisional Application Number (if known):	
Title of Invention:	System and Method for Zero Latency Browsing		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.
2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature <u>/Peter S. Weissman/</u>	Date <u>03/02/2012</u>
Name (Print/Typed) <u>Peter S. Weissman</u>	Practitioner Registration Number <u>40,220</u>
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.	
☒ *Total of <u>2</u> forms are submitted.	

Privacy Act Statement

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

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

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

SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

Claim of Priority

[0001] This application claims priority to U.S. Provisional Patent Application Serial No. 61/434,089, filed January 19, 2011, the entire contents of which are incorporated herein by
5 reference.

Background of the Invention

[0002] As noted on Wikipedia, the Internet or Internet cloud is a global system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to serve billions of users worldwide. It is a network of networks that consists of millions of private, public,
10 academic, business, and government networks, of local to global scope, that are linked by a broad array of electronic, wireless and optical networking technologies. The Internet is composed primarily of HTML documents transmitted from web servers to web browsers using the Hypertext Transfer Protocol (HTTP). However, HTTP is used to serve images, sound, and other content, in addition to HTML. To allow the Web browser to know how to handle each
15 document it receives, other information is transmitted along with the document. This meta data usually includes the MIME type (*e.g.* text/html or application/xhtml+xml) and the character encoding.

[0003] The purpose of a web browser is to read HTML documents and compose them into visual or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret
20 the content of the page. The HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as

headings, paragraphs, lists, links, quotes and other items. It can embed scripts in languages such as JavaScript which affect the behavior of HTML web pages.

[0004] The primary function of a web server is to deliver web pages on request to clients. This means delivery of HTML documents and any additional content that may be included by a document, such as images, style sheets and JavaScripts. A client, commonly a web browser or web crawler, initiates communication by making a request for a specific resource using HTTP and the server responds with the content of that resource or an error message if unable to do so. The resource is typically a real file on the server's secondary memory, but this is not necessarily the case and depends on how the web server is implemented.

[0005] Internet traffic consumes a significant percentage of the existing communication channels around the world. In many cases, copies of the same Internet content are being sent thousands of times in a single second. Each of these transmissions across the Internet uses a communication channel and fills the channel with unnecessary and redundant data.

[0006] One of the most common ways to access the Internet is via a terrestrial, high-capacity connection. However, terrestrial connections are limited in geographical coverage and performance. Terrestrial connections are also inconsistent in quality, even in some of the most developed countries like the United States and Japan. In emerging markets, Internet access is even more difficult. Often, local Internet exchanges are not available, and web pages or corporate data centers are hosted in different continents. As a result, WAN use severely limits Internet performance. By contrast, satellite connectivity is unlimited in geographical coverage.

Summary of the Invention

[0007] Accordingly, it is an object of the invention to provide information from a network to user computers in a near-zero latency environment. It is a further object of the invention to broadcast information from a web server over a broadcast device to a multitude of user
5 computers without loss of functionality. It is yet another object of the invention to provide Internet broadcasting channels for broadcasting information in real time. It is still another object of the invention to provide dedicated channels in a broadcast system, for sending specific information to a single user computer.

[0008] The present invention is directed to a system and method for providing high definition
10 (HD) Internet in a near-zero latency environment. The current invention addresses latency and bandwidth efficiency by managing Internet access more efficiently and with user performance that allows viewing and interaction with web pages significantly faster than legacy systems available today over terrestrial, wireless, fiber and satellite links.

[0009] In accordance with these and other objectives, a system is provided for replicating
15 Internet websites on a large number of user computers having browsers. The system includes a gateway platform having a gateway server and a cache. In a broadcast mode, the gateway server periodically or continuously images broadcast data (*e.g.*, popular websites) from a public (*i.e.*, Internet) or private network, compresses the website images, and stores the compressed website images in the gateway cache. The gateway server then broadcasts all of the compressed
20 broadcast data to all (millions) of the user computers over a broadcast device (such as a satellite or repeater). The broadcast data is sent over one of a plurality of Broadcast Communication Channels using a transmission protocol which is substantially uniform and low bandwidth. The user computers locally store the website images in a storage device. When the user subsequently

points the user computer browser to a website, the user computer checks the local storage and immediately retrieves and displays the previously-broadcast information to the user in the browser.

[0010] In a unicast mode, the user has requested unicast data (*e.g.*, less-popular websites or

5 websites having highly user-customized information) at the browser, which is not broadcast data and therefore has not been previously broadcast to the user computer or stored in the local storage. Instead, the browser requests the single desired web page from the gateway server. The gateway server images that web page from the network, compresses the unicast data, and transmits the compressed unicast data over the broadcast device. The unicast data is sent using a
10 high speed, high bandwidth transmission protocol so that it is received by the requesting user computer substantially in real time, such as Differential Burst Video Transmission. The unicast data is transmitted via the broadcast device over one of a plurality of Differential Burst Video Communication Channels.

[0011] The website images capture the graphical features of the websites. To retain the

15 functionality of the website in both the broadcast and unicast modes, the gateway computer creates a tag file which maps (*e.g.*, using x and y coordinates) the location of various action points (*e.g.*, selectable links, text boxes, etc.) of the web page and identifies the type of action point at each location. The tag file is sent to the user computer over one of a plurality of Tag Communication Channels and is synchronized with the image file at the user computer.

20 Accordingly, as the image file is displayed to the user at the user computer, the actions taken by the user can be transmitted to the gateway server over a return channel on the broadcast device. The gateway server can then reproduce the user's actions on the website at the network. Thus,

the system is able to provide the complete functionality and display of a website at the user computer.

Brief Description of the Drawings

5 **[0012]** Figure 1 provides a non-limiting example of a non-limiting embodiment of the system for HD Internet according to the present invention; and

[0013] Figure 2 illustrates a non-limiting method according to the present invention.

Description of the Embodiments

10 **[0014]** The non-limiting embodiments of the present invention will be described hereinafter with reference to the accompanying drawings, wherein like numerals represent like elements.

[0015] As shown in FIG. 1, the system 100 generally includes a broadcast device 102, user computers 104₁-104_n, gateway platforms 130₁-130_n, and networks 150, 152. The system 100 communicates data, such as websites, from the networks 150, 152 to the user computers 104, via
15 the gateway platforms 130 and the broadcast device 102. The user utilizes a virtual browser 106 at a display of one of the user computers 104₁-104_n to access the remote networks 150, 152 through the broadcast device 102 and the remotely-located gateway platform 130₁-130_n. The virtual browser 106 controls the gateway server 134 and is a remote client of the remotely-located gateway server 134. Thus, the user computers 104₁-104_n can be a dumb terminal which
20 runs the browser 106. The user computers 104₁-104_n can also have a wireless connection 108, and a storage device 110, which can be the computer's hard drive, ROM, RAM or other memory. The storage device 110 can be integral with the user computer 104, or a separate component which is in communication with the computer 104, as shown in FIG. 1.

[0016] The connection 108 enables the browser 106 of the user computers 104₁-104_n to communicate with the gateway platform 130₁-130_n, via the broadcast device 102. The connection 108 can be located at the same site as the user computer 104 and directly wired or wirelessly connected to the user computer 104. Or, the connection 108 can be located remote from the user computer 104 and communicate with the computer 104 wirelessly or wired. Thus, the connection 108 can be an air card, GSM connection, Wi Fi, Wi Max, satellite antenna, or any other wired or wireless medium which facilitates broadcasting of information from the gateway 130 to multiple user computers 104.

[0017] The user computers 104₁-104_n can be any suitable device, though preferably one having a processor, such as a laptop computer, desktop computer, smartphone, tablet PC, laptop, and Internet equipped television. The user computers 104₁-104_n can also have other hardware or software to implement the invention, such as a monitor or display and a memory or storage device 110. And, the user computers 104₁-104_n preferably have user input devices for entering information and/or operating the user computers 104₁-104_n and the browser 106, including a mouse, select button, keyboard, and/or a touchscreen, touchpad, or other suitable input device.

[0018] Each of the gateway platforms 130₁-130_n includes a respective satellite antenna 132 or a broadcast transmitter/receiver, and a gateway server 134 has a cache 136. Each gateway platform 130₁-130_n can communicate information to any one or more of the user computers 104₁-104_n via a forward channel on one of the unidirectional links 120, 122 or the bi-directional link 124 between the gateway platform 130₁-130_n and the satellite 102; and then continuing over a forward channel on one of the unidirectional links 120, 122 or the bi-directional link 124 between the satellite 102 and the user computers 104₁-104_n. And, each computer 104₁-104_n can communicate information to any one or more of the gateway platforms 130₁-130_n through a

return channel on the bi-directional link 124 between the user computers 104₁-104_n and the satellite 102, and then continuing over the bi-directional link 124 between the satellite 102 and the gateway platform 130₁-130_n.

[0019] The gateway server 134 may be configured to communicate with the public computers,

5 servers, networks or clouds such as the Internet cloud 150, and/or one or more private computers, servers, networks or clouds 152 such as a private MPLS (MultiProtocol Label Switching) cloud.

Generally, the system 100 provides for the user computers 104₁-104_n to access the Internet 150 and/or private network cloud 152 through a virtual browser 106 of the gateway 130. The user operates the browser 106 which sends a signal over the satellite 102 to the gateway 130. The gateway 130 accesses the networks 150, 152 and returns the results to the virtual browser 106 via the satellite 102.

[0020] The gateway server 134 can be a server farm that is adapted to act as a secure and fast gateway to the Internet 150, 152, and may be a network of servers, mainframe computer(s) or other high speed and high capacity processing devices. Its speed is enhanced because it may be

15 positioned at a strategic Internet Exchange Point (IXP), which is where Internet service providers exchange Internet traffic between their networks. For instance, the satellite antennas 132 can serve as a teleport having various ports which connect to the networks 150, 152 at multiple 1 gigabyte per second.

[0021] As shown in FIG. 1, the broadcast device 102 can be a satellite 102 which communicates 20 with a satellite antenna 132 at the gateway end, and also communicates with a repeater or the like (not shown) at the user end. The repeater in turn communicates with a plurality of user computers 104 over a wired or wireless connection 108. However, the broadcast device 102 can be any suitable broadcast medium, such as a repeater, and a satellite need not be used. And, the

satellite antenna 132 and wireless connection 108 can be any suitable devices which communicate with the broadcast device 102, so that the gateway platform 130 can broadcast information over the antennas 132 and the broadcast device 102 to a large number of user computers 104 via the wired or wireless connection 108. For instance, the user computer 104
5 can be in communication with the gateway platform 130 through a repeater, which in turn communicates with a plurality of user computers 104, and a satellite 102 need not be used. Though a wireless connection 108 is shown, any suitable connection can be utilized, such as a hard wire or wireless connection to a remote centralized satellite antenna.

[0022] As mentioned above, the browser software 106 resides at the gateway 134, and is

10 configured to run as a virtual browser as a remote client of the gateway server 134. Because the browser 106 functions as a virtual browser, viruses that attack operating systems and threaten users' security are unable to infest the user's individual computing devices. In addition, the remote browser 106 may rely upon the computing power and very high-speed connection of the gateway server 134 to resolve and render pages, images, and documents from the networks 150,
15 152. The gateway server 134 then images those web pages (which are typically in an HTTP format) to a video or image frame format. This is preferably done by taking an image of the entire web page from top to bottom, including any portion that would normally be accessed by scrolling up/down or left/right but not immediately displayed on the screen because it is too long for a single screen.

20 **[0023]** In addition, web pages often have information which is rendered over a period of time, such as a video, streaming information, or an animated display. Accordingly, the gateway server 134 continuously captures images of the web page until it detects a repeating pattern of information in the web page. Thus, the gateway server 134 will be certain to capture all the

information on the web page even if that information continues over a period of time. Once the page is imaged (including any audio on the web page), the gateway server 134 compresses the image or video frame format and sends it to the browser 106 via the satellite 102.

[0024] In a non-limiting aspect of the invention, a web-to-HD video protocol may be used to

5 capture and transmit images/audio of a web page, including a full multimedia web page, regardless of its size or original format (*e.g.*, HTTP). The protocol may be configured to compress the data into a compressed digital video format that can be sent to the user computer 104 for display in the browser 106. Since HTTP is inefficient and slow, the ~~web-to-HD~~ video capture protocol improves the performance of satellite channels to be equal or better than 50msec
10 terrestrial high-capacity channels not accessed via HD Internet using the present invention.

Though the web pages are preferably imaged, any suitable technique can be used to place the web pages in a format suitable for broadcasting to a large number of user computers 104, such as converting the HTTP code to an image frame format or the like. Preferably, however, the technique is independent of the HTTP content, as in imaging.

15 **[0025]** It is noted that many websites include selectable fields or other items which may require user interaction. By way of a non-limiting example, a website may have selectable buttons, scroll bar, browsing bar, drop-down menu, hover links, menus, selectable links, or data entry points. For ease of description, these features are collectively referred to in this application as tag data or action points. When the website is captured in a video frame format, those action
20 points are imaged, but their functionality is not retained in the video images. Rather, a separate tag file is created which maps the various locations of the action points on the web page. That tag file is associated with the compressed video file based on the domain name for the imaged page, and the video is synchronized with the tag file so that the proper action points are

associated with the video images. Accordingly, when the user views the video file on the browser 106, the user retains all the functionality of the website. Thus, the video file and the tag file cooperate to emulate or reproduce the website at the browser 106, so it appears to the user that the web page is actually being displayed in the browser 106.

5 **[0026]** For instance, it is assumed that the user has accessed a search website which has a search box where the terms to be searched are entered. The website is virtually displayed on the browser 106 as a video image of the actual site. The user may then use the mouse to click the pointer in the search box. The browser 106 recognizes from the tag file that the user has positioned the pointer in the search box, and transmits that action to the Internet site on the
10 Internet cloud 150, via the platform 130. The user may then use the keyboard to start typing a term in the search box. Again, that action is replicated and sent to the actual website at the Internet cloud 150. The Internet site at the Internet cloud 150 then responds to the user's action, and the result is captured to an image file, compressed and sent back to the user's computer 104 for display on the browser 106. Further action may include, but is not limited to, opening
15 another page, downloading or opening a file, printing a document, refreshing a page, filling form fields, and drag and drop mouse actions. Thus, all user actions may be performed on the computer 104 and either implemented at the user computer 104 (such as saving a file to the storage device 110 and scrolling down on the page) or recognized at the website at the Internet cloud 150 or the private cloud 152 (such as opening a link, opening a drop-down menu, and
20 hovering over a link). Typing information may be communicated when pages are refreshed, which eliminates latency perception by the user.

[0027] The gateway server 134 transmits the video data to the user computers 104₁-104_n for display on the browser 106. The browser 106 includes all of the command and function features

of a standard browser, including home, back, print, favorites, and address, and can have the standard bars, including the menu, status and command bars. The browser 106 also interfaces to the computer 104 peripherals, such as the printer, hard drive, USB ports, and the like. In addition, the browser 106 of the present invention is capable of searching the local storage device 110 to see if a web page has been previously received in the broadcast mode. The browser 106 also generates and sends commands and a tag file to the gateway server 134 so that the gateway server 134 retrieves the information desired by the user. In addition, the browser 106 controls and synchronizes the tag file and echo. For instance, if the user enters a web domain in the address field of the browser 106, the typed letters will appear in the browser 106. But, the browser 106 will not transmit the domain to the gateway server 134 until the user hits the ENTER command key or clicks the mouse to enter the domain name. Likewise, if the user moves the mouse, the mouse pointer moves on the screen of the user computer 104. However, the browser 106 does not transmit that movement to the gateway server 134 unless the mouse pointer is hovered over a link (a type of action point), or if the user clicks the mouse at an action point.

[0028] The browser 106 then recognizes when the user uses any of the input devices at the computer 104. If the user requests a web page, the user computer 104 checks its local storage device 110 for the desired information. If the requested information has been previously broadcast and stored in the storage device 110, that information is immediately displayed in the browser 106. If the requested information has not been previously stored in the storage device 110, the browser 106 prepares a tag file with the location of the action and the action point. It then transmits that tag file to the gateway platform 130 where the gateway server 134 first checks the cache 136 for the requested information. If the information is stored in the cache 136, it is

sent to the user computer 104. If the information is not stored in the cache 136, the server 134 replicates the action point to the website on the Internet cloud 150. The website response is then imaged, compressed and returned to the browser 106 using a differential burst video transmission via the satellite 102.

5 [0029] It will be apparent that the virtual browser 106 can be any software application which can display the received video frame data to look like the web page is actually being displayed in a browser. The gateway servers 134 may also be configured to handle other computational requirements of multimedia and video related services accessed by users. Accordingly, the browser 106 takes advantage of the high processing speeds and the high speed connections (*e.g.*,
10 1 Gb per second and higher) of the gateway server 134 to access information from the networks 150, 152.

[0030] The system 100 preferably has two primary modes of operation, a unicast mode to communicate unicast data using differential burst video transmission, and a broadcast mode to communicate broadcast data. Both modes are implemented at the browser 106 and/or the
15 gateway platform 130. The unicast mode is used to send highly customized information from a single website at network 150, 152 to a single user computer 104 in real time as it is requested by the user. Accordingly, the unicast mode utilizes the differential burst video transmission to provide a very fast transmission of data having a high bandwidth over a very short period of time. And, the unicast data is given transmission priority over the broadcast data. In contrast,
20 the broadcast mode is used to send information that is accessed by a large number of users from a single website at network 150, 152 to a large number of user computers 104. The information is continuously or periodically updated and broadcast so that it is immediately available at the user computers 104 when subsequently requested by the user. So, the information need not be

sent by the differential burst video transmission protocol, but instead can be sent over a more uniform lower-bandwidth transmission over a longer period of time. And, since the broadcast data is not needed by the user as immediately as the unicast data, the broadcast data can have a lower transmission priority to the unicast data.

5 **[0031]** Thus, the mode of operation which is implemented by the gateway server 136 and the user computer 104 depends on the information (such as a website or other source) the user accesses. The information will either be unicast data or broadcast data, depending on the popularity, image-intensity and how customized the information is to the user. For instance, the gateway server 134 may track the type of usage that the users make of the networks 150, 152. It
10 can then determine which websites are most frequently accessed and/or contain the most graphics. Based on that information, the gateway server 134 can determine that the website is unicast data or broadcast data.

[0032] Unicast data includes information from the network 150, 152 which is less popular and/or is highly customized to the user. Thus, the unicast mode is used to transmit specific sites or
15 information to a single user computer 104, and especially those sites or information which are not amenable to being broadcast to a large number of users. The unicast data is intended to include information, such as websites, which is not frequently accessed since those sites do not (by definition) take a substantial amount of the bandwidth. And, unicast data also includes
20 information, such as websites, which are highly specific in use or are very customized to the user, such as a search site like Google or web email like gmail or yahoo mail. Those sites are not very amenable to being broadcast to multiple users since the pages are different for each user. As a result, those sites need to be sent directly to the particular user in response to the user's

request. The computer 104 can save the site to the local storage device 110, though it doesn't have to.

[0033] Since the unicast mode is for customized information, the unicast data is sent in real time without delay, directly from the network cloud 150, 152 via the gateway platform 130 and the broadcast device 102 to the user computer 104, where it may be immediately displayed (once decompressed at the computer 104). Accordingly, the unicast mode provides fast processing which is achieved using a fast differential burst video transmissions instead of standard back and forward negotiations used by existing Internet browsers, like Internet Explorer, Chrome, FireFox, Opera, and the like. The burst transmission is a high-bandwidth (several Mbits/s) transmission of data over a very short period of time, especially as compared to a TCP/IP transmission which provides a lower-bandwidth transmission over a greater period of time. The shorter transmission time also reduces the time needed by the satellite 102 to retransmit the information, which can typically have a very wide bandwidth capacity.

[0034] In addition, the differential aspect of the transmission protocol provides that only the change in the video is transmitted. For instance, suppose the first frame of a video shows a person sitting in a chair. An initial burst transmission of data is transmitted showing the person sitting in the chair. If the person raises his/her leg in the second frame, then the system only needs to transmit the leg being raised and need not transmit the rest of the person's body or the chair. The raising of the leg is sent in a short burst transmission, but there is less information to send so that burst of data will require less bandwidth and time than the initial burst transmission of data.

[0035] The broadcast mode, on the other hand, is used to send the same information to a wide number of user computers 104. Thus, the broadcast data is intended to include the most

frequently visited and/or graphics-intensive web pages, but less specifically-customized information. Accordingly, suitable sites for the broadcast mode are news sites like CNN, BBC, newspaper, live streaming television feeds, movies, music downloads, or ESPN. Those sites provide the same information to a wide number of users over and over again. Though users may
5 select to view different information, that information is not specific to the user (unlike a search site). In addition, there can be a number of broadcast channels and each channel can have a specific theme, such as country music, military television, etc. The user can then tune the browser 106 to one of the broadcast channels to receive that content. Thus, the broadcast channel can be configured here to receive live content, or to update the storage device 110 of the
10 user computer 104.

[0036] For instance, the main page of ESPN presents the same information to all viewers, which may include scores of hockey games and basketball games. If a large number of viewers choose to select a certain hockey game, that page of the website can also be sent in the broadcast mode. On the other hand, if the user desires information which is not frequently viewed (such as about
15 high school sports on ESPN), that information will be delivered to the computer 104 in the unicast mode and optionally stored at the storage device 110 of that computer 104.

[0037] In the broadcast mode, the gateway server 134 retrieves the desired data from the networks 150, 152, captures that data (including audio) to a video (or image) frame format, compresses that video data and stores the compressed video data in the gateway 130 at the cache
20 136. The cache 136 is a cache server adapted to store web pages and is in communication with the gateway server 134. The cache 136 is shown in FIG. 1 as part of the server 134, but can be separate from the server 134, and can be memory or other storage device. The gateway cache

136 preferably stores the web pages in the compressed video format, but can store the data in any suitable format(s) including HTTP format.

[0038] Once the broadcast data is stored in the gateway cache 136, the gateway server 134 then transmits that data to the multiple user computers 104, which then store that data on the storage device 110. Thus, the storage device 110 can be synchronized with the gateway cache 136 so that they both store the same information. However, the local storage device 110 can also store client-specific content that is not present in the gateway cache 136 to provide faster access to client-unique requirements and flexibility and support of the gateway cache 136.

[0039] As the broadcast sites are updated, the updated sites are cached 136 and sent to the user computers 104. The gateway server 134 can track the updates in several ways. For instance, the server 134 can continuously capture the broadcast data at the networks 150, 152. Or, the gateway server 134 can continuously or periodically compare the broadcast data stored in the cache 136 with the broadcast data at the networks 150, 152 and re-capture any broadcast data which is updated. As the information is updated, the updated broadcast data is compressed, saved to cache 136, broadcast to the user computers 104, and stored in the storage device 110.

[0040] Accordingly, the broadcast mode operates proactively, before the user requests any broadcast data, so that the information is immediately available for display in the browser 106 when the user subsequently desires to access it. The data can also (or alternatively) be stored at the user's computer 104 (or from the gateway server 136) to a CD, DVD, downloadable file, ftp site, or USB memory stick, such as one having a terabyte capacity, so that the information is available at any computer 104 that the user may access.

[0041] Thus, in the broadcast mode, the gateway server 134 accesses a website at the network 150, 152, then broadcasts that data to multiple user computers 104 at one time. For instance, the

server 134 can broadcast thousands of websites to millions or tens of millions of user computers 104. That broadcast then eliminates the need to transmit the same information from those websites back and forth millions of times from the clouds 150, 152 to the user computers 104. That, in turn, reduces the bandwidth needed to communicate that information, reduces traffic on the satellite 102, and significantly improves the user experience.

[0042] As noted above, communications between the computers 104 and the gateway server 134 are over various unidirectional links 120, 122 and bidirectional links 124. Specifically, the unidirectional links include a Broadcast Communication Channel (Bcc) 120 and a Differential Burst Video Communication Channel (DBVcc) 122, while the bidirectional links include a Tag Communication Channel (Tcc) 124. Though only a single Bcc, DBVcc and Tcc channels are shown, multiple channels can be provided for each.

[0043] The Broadcast Communication Channel (Bcc) 120 is a multi-cast channel which is configured to forward broadcast data to a plurality of user computers 104. It is only used in the broadcast mode of operation. Though only one channel 120 is shown, there may be multiple broadcast channels 120 provided. Accordingly, the gateway server 134 sends the broadcast data that is stored in the gateway cache 136, over the Bcc 120 to several or all of the user computers 104₁-104_n. The broadcast information is sent from the gateway cache 136 at one of the gateway platforms 130₁-130_n, on the forward broadcast communication channel 120 to the satellite 102. The satellite 102, in turn, retransmits that data on the forward broadcast communication channel 120 to the browsers 106 of every user computers 104₁-104_n. Thus, only one of the gateway servers 134 in communication with each satellite 102 needs to store web data in its cache 136, since the satellite 102 can retransmit that data to all of the computers 104 with which it communicates. So, each satellite 102 only needs to be in communication with a single the

gateway server 134 which has a cache 136, though preferably more than one server 134 stores Internet data in a cache 136 for redundancy and to better distribute communication channels for that server 134. Accordingly, the server 134 which is closest to a particular data center can access information for a given website. For instance, the first gateway platform 130₁ may be
5 closest to the data center for the CNN site, and the second gateway platform 130₂ can be closest to the data center for the BBC site. So, the first platform 130₁ will store the CNN site in its cache 136 and the second platform 130₂ will store the BBC site in its cache 136.

[0044] Once the broadcast data is stored at the user computer 104, that information is immediately available for display on the browser 106 when the user subsequently desires to
10 access that data. Each user computer 104 stores all of the broadcast data. The broadcast channel 120 is unidirectional since it is only used to broadcast information to a large number of potential users. By broadcasting the broadcast data to a large number of user computers 104, the system 100 avoids having to bog down the satellite 102 (as well as the gateway server 134) with repeated individual requests from a large number of user computers 104 for those frequently-
15 viewed sites.

[0045] Instead, those individual requests are handled immediately at the user computer 104 itself and the requested data is retrieved from the user storage device 110. This improves the overall communication flow and maximizes the efficiency of the system 100 by reducing the use of the satellite 102; which also optimizes the cost-effectiveness of the system 100 by minimizing the
20 cost which is typically associated with the use of a satellite 102. Thus, it is advantageous to broadcast as many sites as possible in the broadcast mode to as many user computers 104 as possible. The cost of storage devices 110 continues to become exponentially cheaper, so that a large amount of broadcast data (*i.e.*, compressed imaged websites) can easily be stored at the

local storage device 110 in a cost-effective manner.

[0046] The broadcast channel 120 synchronizes the information that is transmitted. Periodically or as desired, based on user profiles, the gateway 134 may push the cache 136 to the multiple users. The gateway server 134 preferably broadcasts all of the broadcast data stored in the cache 136 to all of the user computers 104, which includes all updated sites. By sending the cache 136 to the users, bandwidth is conserved and fewer images are re-transmitted. By transmitting the cached sites over the broadcast channel 120, the system 100 need not continuously transmit the same information from those sites to each requesting computer 104 individually, which in turn reduces the bandwidth and time to view a page. That also reduces the number of times the websites themselves need to be accessed through the network cloud 150, 152.

[0047] As an illustrative example, the gateway server 134 at the first gateway platform 130₁ may be provided with a cache 136, but the second and nth gateway platforms 130₂-130_n need not have caches 136 and need not communicate on a broadcast communication channel 120. That first gateway platform 130₁ can then determine that the website for the news organization CNN is a popular site. The gateway server 134 can track the CNN site on the Internet cloud 150 and store the site to the gateway cache 136 whenever the site is modified and/or at predetermined periodic intervals. The server 134 at the first gateway platform 130₁ can then transmit the CNN site on the broadcast communication channel 120 to the satellite 102. The satellite 102 then transmits the CNN site to each of the user computers 104₁-104_n over the broadcast communication channel 120. The user computers 104₁-104_n are then able to display the CNN site whenever it is called up by the browser 106 at the user computer 104₁-104_n.

[0048] To further illustrate a feature of the invention, the gateway server 134 at the first platform 130₁ (or the second platform 130₂), may detect that users in the state of Florida access CNN in

Spanish. The system 100 can then have the first platform 130₁ server 134 cache and broadcast the CNN site in Spanish to Florida users, which is a subgroup of all the user computers 104₁-104_n. The CNN site can be stored in a local hard drive of the user computers 104₁-104_n, if desired. This methodology conserves bandwidth because websites are transmitted as video images and the data is compressed and transmitted to several user computers 104₁-104_n, at once rather than the same information being transmitted multiple times by legacy Internet-based systems using HTTP, HTTPS, and TCP/IP.

[0049] The system 100 also has a Differential Burst Video Communication Channel (DBVcc) 122 which is used only in the unicast mode of operation. The DBVcc 122 is also a unidirectional channel. Though only one channel 122 is shown, there may be multiple DBVcc channels 122 provided. It is used to transmit digital video images of a web page from the gateway server 134 to one of the user computers 104₁-104_n via the satellite 102. Thus, the Differential Burst Video Communication Channel 122 is similar to the Broadcast Communication Channel 120, except that the DBVcc 122 is used to send video data to a single user computer 104 in the unicast operational mode, and the Bcc 120 is used to send video data to multiple user computers 104 in the broadcast operational mode. The DBVcc 122 is preferably a priority channel of communication, and is given priority over the Bcc 120. This can be accomplished, for instance, by setting aside a certain number of channels just for the DBVcc 122, and/or by giving priority to unicast mode communications under a COS (Class Of Service) or QOS (Quality Of Service) protocol. The priority protocol can be implemented by the server 134 and/or by the browser 106.

[0050] The Tag Communication Channel (Tcc) 124 is a two-way channel which is utilized in both the unicast mode and the broadcast mode. The Tag Communication Channel 124 transmits information related to the tag data or action points of a web page like tags and local echo for

typing. Though only one channel 120 is shown, there may be multiple broadcast channels 120 provided. More specifically, the Tcc 124 provides a forward channel from the gateway server 134 to the user computer 104. The tag file includes the action points associated with a web page. The tag file is sent on the forward Tcc channel 124 so that the virtual browser 106 (as a client of the gateway server 134) can identify the action points of the website being viewed by the user. The tag file and compressed video file can also include information (such as a time stamp, ID, code, or the like) which facilitates synchronization of the tag file to the video. For instance, for a given search site, the tag file can include at least the domain name for the web page and the location (x pixels down and y pixels over) of the action taken. It can also include the action type and the action taken.

[0051] The browser 106 then creates a tag file which includes the domain name for the web page, the location where the action is taken (x pixels down and y pixels over) and the action taken (such as the movement or click of the mouse, the typing of a letter or command (tab, backspace, etc.) on the keyboard, etc.). That tag file is sent to the gateway server 134 via the satellite 102 on the return Tcc channel 124. In this manner, the browser 106 communicates the user's actions to the gateway server 134. The gateway server 134 can then replicate that action on the website on the Internet cloud 150 or private cloud 152. However, certain actions, such as scrolling the web page, can be handled by the browser 106 itself since the entire web page is imaged and saved in the local storage device 110; so that the browser 106 need not be sent to the gateway server 134.

[0052] The Tcc 124 operates in conjunction with the Bcc 120 and the DBVcc 122 to provide the complete virtual appearance of the website being accessed by the user via the gateway server 134. That is, the Tcc 124 provides the functionality of the website being accessed and either the

Bcc 120 or the DBVcc 122 provides the image of the website. More specifically, the Bcc 120 provides the image of the website when the browser 106 views a site (via the satellite 102 and gateway server 134) which is sent over the broadcast channel 120 in the broadcast mode. And, the DBVcc 122 provides the image of the website when the browser 106 views a site (via the satellite 102 and the gateway server 134) which is sent over the Differential Burst Video Communication Channel 122 in the unicast mode.

[0053] The system 100 can switch between the broadcast mode and the unicast mode as the user moves between different web pages or even within subpages of a single website. For instance, if the user has accessed the CNN site in broadcast mode and clicks on a CNN link to a page which is not frequently accessed or which is customized to the user, the system 100 can switch to the unicast mode. One alternative feature of the invention is to provide one or more unidirectional Multi-cast Communication Channels (Mcc), each of which carries transmissions to a predetermined a group or subset of users. For example, users may decide to join a multi-cast group, and communications unique to that group would be transmitted to those user computers 104₁-104_n over that multi-cast channel. For example, the caching engine at the gateway server 134 may push the cache 136 periodically onto the computers 104 by multi-casting it to subscribers. In the example above, the user computers 104₁-104_n located in Florida can be assigned to a common multi-cast group having a designated multi-cast channel. By storing a portion or all of the gateway cache 136 at the gateway 134, the retransmission of video images associated with pages can be eliminated, which results in greater speed. This configuration also enables the immediate start of video, which enhances the user's experience.

[0054] All of the unicast and broadcast data are communicated over the broadcast device 102. There may be periods of high volume use which challenge the transmission capabilities of the

broadcast device 102. Thus, as with the DBVcc 122, the Tcc 124 can be designated as a priority channel when the communication is in the unicast mode, so that it has priority over the Bcc 120 and over other Tcc communications which are in the broadcast mode. Thus, the order of priority for the transmissions is as follows: (a) Bcc when used for live broadcasting, (b) Tcc, (c) DBVcc, and (d) Bcc when not used for live broadcasting. In addition, all of the Tcc information can have the assigned priority, or only the tag files from the user computer 104 and when used for DBVcc can have the assigned priority; and tag files associated with the broadcast data can have a lower priority. This priority protocol can be implemented by the server 134, for instance, by setting aside a certain number of channels just for the priority channels, such as Bcc for live broadcasting, unicast Tcc 124 communications, and/or by giving priority to unicast mode communications under a COS or QOS protocol. The channels can be dedicated channels, or non-dedicated channels.

[0055] The private cloud 152 can be maintained by the operator of the gateway platform 130. Although it is globally accessible, it is a private cloud. Users at remote computer 104 can access the private cloud 152 via a private link, via the gateway 130. The private link is established by a dedicated IPL (International Private Line) or MPLS (MultiProtocol Layered Switching links) established between the gateway server 134 and the private cloud 152.

[0056] One exemplary feature of the invention provides that the gateway server 134 maintains a list of the broadcast data which is to be broadcast to the user computers. This may be, for instance, a list of the web pages which is to be regularly imaged, compressed and broadcast. That list can be updated manually and/or automatically, such as by utilizing artificial intelligence at the gateway server 134 to improve the information that is determined to be broadcast data. The user computer 104 can track the percentage of success of the requested information being

stored in the storage device 110. It can send those statistics to the gateway server 134 to learn what information or web pages should be designated as broadcast data.

[0057] Another exemplary feature of the invention enables the browser 106 to apply a one-time unique login for a user. Through this feature, the user is only required to authenticate once,

5 namely the first time the user accesses the gateway server 134. The server 134 identifies allowable computers 104 by its MAC address and provides access to authorized computers 104.

The gateway server 134 can also maintain an account history to determine how many times a computer 104 connects to the gateway server 134 for billing or other purposes. The user only needs to log in one time, during which the user can download the browser 106 to the user

10 computer 104. When the browser 106 initially connects to the gateway server 134, it sends the MAC address for the computer 104 to the gateway server 134. All subsequent communications are based on the MAC address.

[0058] Figure 2 illustrates exemplary method steps performed by the system 100 of the present invention. First, in step 200, the system recognizes that a web page option has been selected by a

15 user at the browser 106. At step 202, the browser 106 determines if the desired web page (based on the domain name for the web page) is stored locally at the memory or storage device 110 of the computer 104. If the site is not stored at the computer 104, the browser 106 (in unicast mode) at step 204 connects to the gateway server 134 via the browser 106 and the satellite 102.

At step 206, the gateway server 134 checks the cache 136 for the requested information and, if
20 not found, searches for the closest point of access (such as a data center) to the desired web page on the cloud 150, 152. The gateway server 134 then connects to the site over the cloud 150, 152 and renders the site.

[0059] At step 208, the server 134 creates a compressed video format of the web page. The

compressed video format may include all of the page's graphical information and data from different sources in a single video signal representing the image of the web page. The data may include Java, html, flash, or other programs known to those of skill in the art. Also at step 208, the server 134 creates a tag file which maps the desired website. The tag file may include

5 positions of the scroll bar click, prompt locations, and any other action points of the web page.

As mentioned above, the tag file retains the functionality of the website on the browser 106. The tag file may be periodically updated at the gateway server 134 and the computer 104 as the web page at the network 150, 152 changes, so that both views of the page are synchronized. The system can optionally store the compressed video format and the tag file in the gateway cache
10 136 at the gateway server 134.

[0060] At step 210, the tag file data is then transmitted to the computer 104 using the Tag Communication Channel 124, and the compressed video data is transmitted to the computer 104 using the DBVcc 122. The tag file is preferably transmitted to the user computer 104 with the compressed video data, so that the information is synchronized. At step 212, the browser 106
15 receives the compressed video data and the tag file from the gateway server 134 and displays the web page.

[0061] Returning to step 202, if the computer 104 determines that the requested web page is locally available in the computer memory 110, then the locally available version of the web page is used in the browser 106. The requested web page would be in the memory of the computer
20 104 (or the cache 136) if it is broadcast data which has been previously imaged, compressed, tagged, cached and broadcast over the Bcc 120 to the user computer 104; and the associated tag file was sent over the Tcc 124. The broadcast data can then be immediately displayed to the user in step 212, and the system 100 need not perform steps 204-210.

[0062] Although the steps in Figure 2 have been described in sequential order for ease of understanding, it is important to note that many, if not all, of these steps may be performed in varying orders and/or in parallel. For instance, the server 134 can operate in the broadcast mode and the unicast mode at the same time. All such combinations of steps are within the scope of the present invention.

[0063] One of the benefits of the present invention is that no local process on the computer 104 is required, other than the effective display of the web page images. The gateway 130 does all the processing, so that the computer 104 can be a dumb terminal.

[0064] Accordingly, the present invention provides a gateway server 134 and a gateway cache 136 which provides public or private information from a public or private network to the browser 106 in real time. In addition, the system 100 enables a reduced, and near-zero, latency of the satellite 102. Thus, the gateway server 134, cache 136 and browser 106 provide a near-zero latency.

[0065] The gateway server 134, as well as the broadcast device 102, can be implemented by a computer having a processor to perform various functions and operations in accordance with the invention. The computer can be, for instance, a personal computer (PC), server or mainframe computer. The processor may also be provided with one or more of a wide variety of components including, for example, input device, display or monitor, and a memory or storage device such as a cache 136 or database. The system and processes implemented at the gateway platform 130, the broadcast device 102 and/or the user computer 104, can be stored on or read from computer-readable media which stores machine executable instructions for performing the processes described. Computer readable media may include, for instance, hard disks, floppy disks, DVD, memory stick, CD-ROM, downloadable file, read-only memory (ROM) or random-

access memory (RAM).

[0066] As shown and described herein, the gateway platform 130 is preferably separate from the broadcast device 102. However, all or part of the gateway platform 130, including the server 134 and the cache 136 and its associated functionality, can be integrated with and located together with the broadcast device 102. In an embodiment where the broadcast device 102 is a satellite, the satellite can have the features discussed in co-pending application serial no. 61/350,211, filed June 1, 2010, the entire contents of which are hereby incorporated by reference.

[0067] In addition, a firewall can be provided at the gateway server 134, so that any forward communications from the gateway server 134 have to pass through the firewall before being transmitted to the satellite 102. This greatly simplifies security by reducing the number of security points and firewalls that might otherwise be needed. The system 100 also provides a secure access for public and private cloud 150, 152 services.

[0068] Other features of the invention can include time stamping the data stored in cache 136, and/or time stamping the access made by the users and storing that information in the user's account.

[0069] Finally, while the preferred embodiment of the invention has been described to communicate websites over a broadcast system, other information may be communicated. For instance, movies, database and HD movies can be broadcast to user computers 104.

[0070] Numerous modifications and variations of the present invention are possible in light of the above teachings. It is therefore to be understood that within the scope of the appended claims, the invention may be practiced otherwise than as specifically described herein.

CLAIMS:

1. A system for communicating data from a first computer to a second computer remotely located from the first computer, the system comprising:

a gateway platform configured to capture the data in a video frame format, and cause the second computer to display the captured data in the video frame format.

2. The system of claim 1, wherein the data is provided by the first computer in a first format, and said gateway platform captures at least a portion of the data in a video frame format, and the video frame format is different from and independent of the first format.

3. The system of claim 2, wherein the first format is an HTTP format.

4. The system of claim 2, wherein said gateway platform captures the entirety of the data to a video frame format.

5. The system of claim 1, wherein there are a plurality of second computers and said gateway platform is further configured to transmit the data over a satellite using a differential burst video transmission to no more than one of the second computers for display in substantially real time.

6. The system of claim 1, wherein there are a plurality of second computers and said gateway platform is further configured to broadcast the captured data to the plurality of second computers.

7. The system of claim 6, wherein said gateway platform is further configured to broadcast the captured data over a satellite to the plurality of second computers.

8. The system of claim 1, wherein the first computer is a server accessible through a global network, and the second computer is dumb terminal.

9. The system of claim 1, wherein the data is a web page and said gateway platform causes the second computer to display a virtual image of the web page.

5 10. The system of claim 1, wherein said gateway platform comprises a processor.

11. The system of claim 1, wherein said gateway platform comprises a storage device for storing the captured data.

12. The system of claim 1, wherein said gateway platform comprises a processor in communication with a storage device and said processor stores the captured data in said storage
10 device.

13. The system of claim 1, wherein the second computer is configured to receive a user input action command, and in response to the user input action command create a tag file comprising a location of the user input action command, a type of the user input action command, and the user input action command.

15 14. The system of claim 13, wherein the location of the user input action command comprises an x coordinate and a y coordinate.

15. The system of claim 13, wherein the type of the user action input comprises a keyboard entry or a mouse entry.

16. The system of claim 13, wherein the user input action command comprises a
20 mouse click, a scroll, or a typed key command.

17. The system of claim 13, wherein said gateway platform further receives the tag file and performs the user input action command on the first computer.

18. A system for virtually replicating a web page of an web server on a user computer remotely located from the web server, the system comprising:

5 a gateway storage device; and,

a gateway processor in communication with said gateway storage device, said gateway processor configured to access the web page from the web server in an HTTP format, create a web page image of the web page in a graphics format, store the web page image to said gateway storage device, and transmit the web page image to the user computer.

10 19. The system of claim 18, said gateway processor further configured to display the web page image at the user computer.

20. The system of claim 18, further comprising a plurality of user computers, said gateway processor broadcasting the same web page image to each of the plurality of user computers.

15 21. The system of claim 18, said gateway processor further creating a tag file identifying an action point of the website and a location of the action point.

22. The system of claim 21, said gateway processor transmitting the tag file to the user computer to display the action point on the user computer.

20 23. The system of claim 22, wherein the tag file is synchronized with the web page image.

24. The system of claim 18, wherein there is a first web page and a second web page, and said gateway processor operates in a broadcast mode to broadcast the first web page to a plurality of user computers, and said gateway processor operates in a unicast mode to transmit the second web page to one of the plurality of user computers.

5 25. A client server architecture for browsing information including internet, video, and other cloud content, the architecture comprising: a client server browsing the information and transmitting the information to a client using a differential burst video transmission.

26. A client server architecture that transmits information to multiple clients each having a local cache, the architecture comprising: a client server having a master cache, said
10 client server synchronizing the master cache via a broadcast channel to the local cache of the multiple clients.

27. The architecture of claim 26, wherein the information comprises a complete web page, wherein the client only displays a portion of the complete web page.

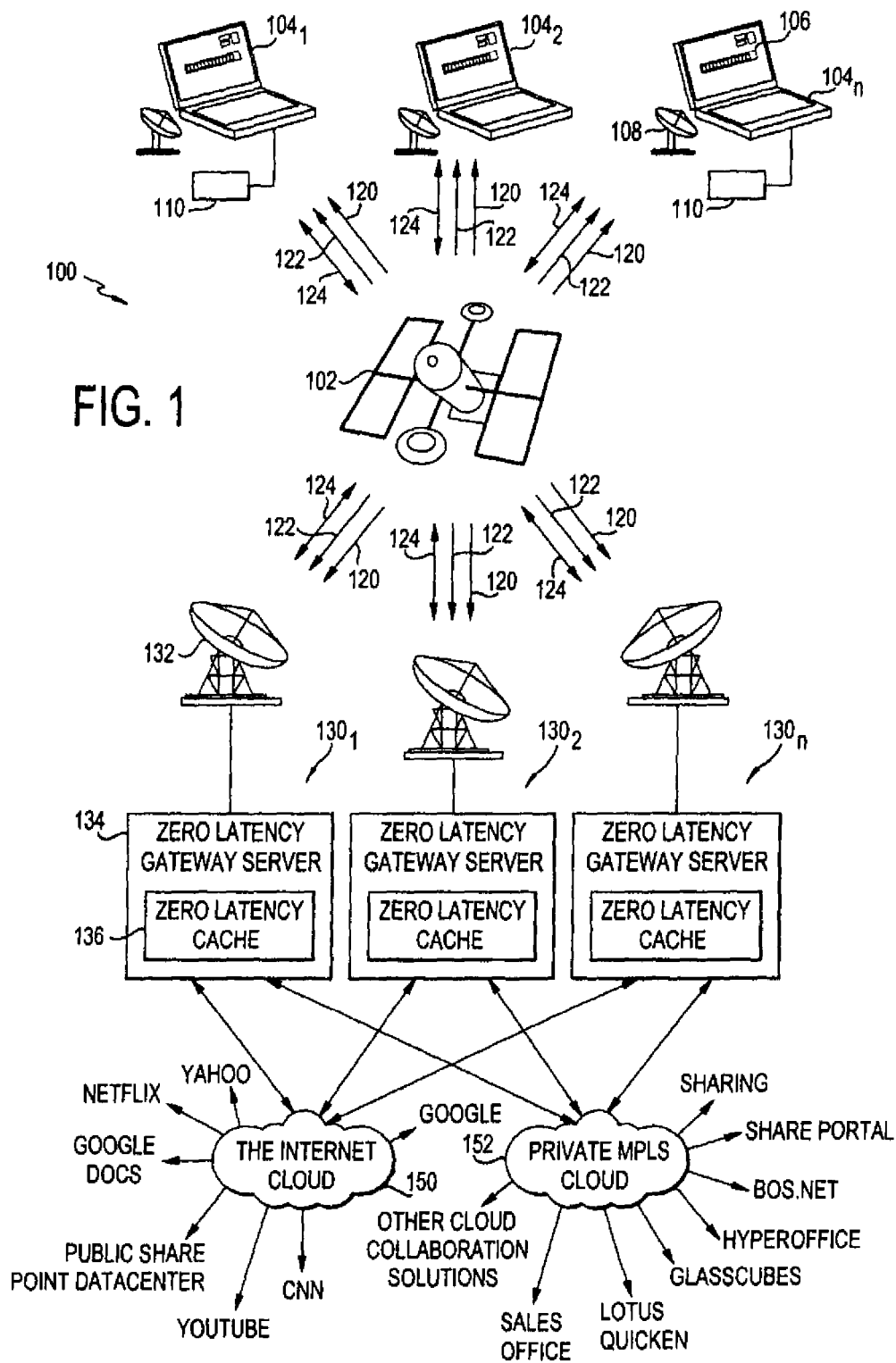
28. The architecture of claim 26, wherein the master cache includes most visited web
15 pages and their sub-links.

29. The architecture of claim 28, wherein the local cache is client specific and includes information that is not in the master cache to provide faster access to client unique requirements and flexibility and support of the master cache.

30. The architecture of claim 26, further storing a replica of the master cache in a
20 mobile storage device.

ABSTRACT

A system replicates Internet websites on a large number of user computers having browsers. The system includes a gateway platform having a gateway server and a cache. In the broadcast mode, the gateway server periodically or continuously images broadcast data (*e.g.*, popular websites), compresses the website images, and stores the compressed website images in the gateway cache. The gateway server then broadcasts all of the compressed broadcast data to all (millions) of the user computers over a broadcast device (such as a satellite), for subsequent display by the user in the browser. In the unicast mode, the user requests unicast data (*e.g.*, less-popular websites or websites having highly user-customized information) at the browser. The gateway server images that one web page, compresses the unicast data, and transmits the compressed unicast data over the broadcast device substantially in real time to the one requesting user computer.



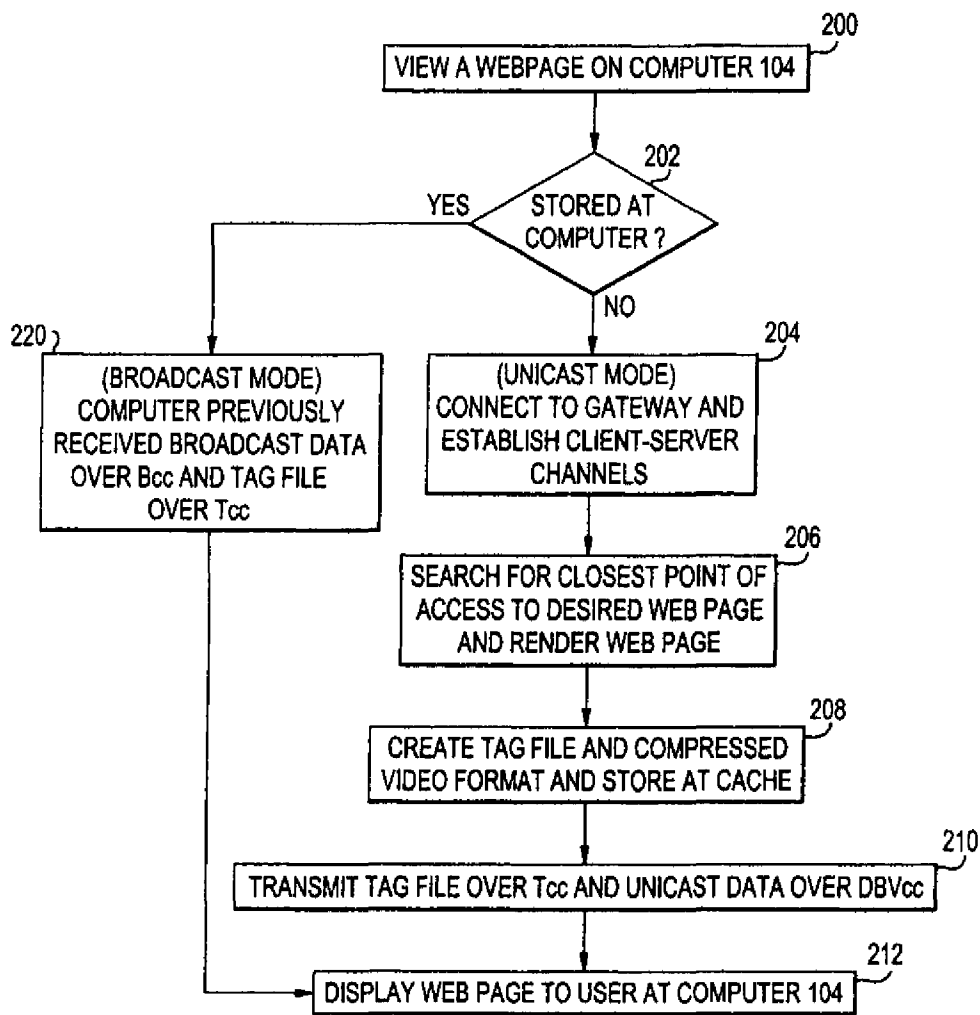


FIG. 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent of Abel Avellan et al.	:Group Art No.: TBD :
Application No. TBA	:Confirmation No.: TBD
Filed: Herewith	:Examiner: Not Yet Assigned
For: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING	:Attorney Docket: 113776.00126

PRELIMINARY AMENDMENT UNDER 37 C.F.R. 1.115

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

Dear Sir:

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification on page 1, paragraph [0001] with the following:

RELATED APPLICATIONS

[0001] This application is a Continuation of U.S. Patent Application Serial No. 13/109,581, filed May 17, 2011, which claims priority to U.S. Provisional Patent Application Serial No. 61/434,089, filed January 19, 2011, the entire contents of which are incorporated herein by reference.

REMARKS

Applicants submit this Preliminary Amendment in order to correct the priority claim. In view of the above Preliminary Amendment, Applicants believe the pending application is in condition for examination.

In the event that there are any questions relating to this Response or to the application in general, it would be appreciated if the Examiner would telephone the undersigned attorney concerning such questions so that prosecution of this application may further be expedited.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 23-2185, under Order No. 113776.0126 from which the undersigned is authorized to draw.

Dated: March 2, 2012

Respectfully submitted,



Electronic signature: /Peter S. Weissman/
Peter S. Weissman

Registration No.: 40,220

BLANK ROME LLP

Correspondence Customer Number: 27557

Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	)	Conf. No.: TBD
	)	
Abel AVELLAN, et al.	)	Group Art Unit: TBD
	)	
Serial No.: TBD	)	Examiner: TBD
(CIP of 13/108,581)	)	
Filed: Herewith	)	Atty. Dkt. No.: 113776-00126
	)	
For: SYSTEM AND METHOD	)	
FOR ZERO LATENCY	)	
BROWSING	)	

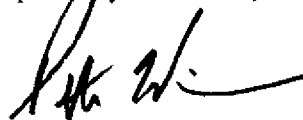
AUTHORIZATION TO CHARGE ADDITIONAL REQUIRED FEES

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

Sir:

The above referenced Patent Application and a *Certification and Request for Prioritized Examination* under 37 CFR 1.102(e) are submitted herewith. Authorization to charge Deposit Account No. 23-2185 in the amount of \$2,400.00, is hereby given. Authorization is also given for any shortage or credit any overpayment of fees to BLANK ROME LLP, (Atty. docket no. 113776.0126) Deposit Account No. 23-2185.

Respectfully submitted,



Date: March 2, 2012

By: /Peter S. Weissman/

Peter S. Weissman
Registration No. 40,220
Attorney for Applicants

BLANK ROME LLP
600 New Hampshire Ave., NW
Washington, DC 20037
Tel: (202) 772-5800
Fax: (202) 572-8398

FEE TRANSMITTAL		Complete if Known	
		Application Number	Not Yet Assigned
		Filing Date	
		First Named Inventor	Abel AVELLAN
		Examiner Name	Not Yet Assigned
		Art Unit	N/A
☒ Applicant claims small entity status. See 37 CFR 1.27		Attorney Docket No.	113776.00126
TOTAL AMOUNT OF PAYMENT		(\$) 3,450.00	

METHOD OF PAYMENT (check all that apply)

☐ Check
 ☐ Credit Card
 ☐ Money Order
 ☐ None
 ☐ Other (please identify): _____

☒ Deposit Account
 Deposit Account Number: 23-2185
 Deposit Account Name: Blank Rome LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below
 ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	380	190	620	310	250	125	625
Design	250	125	120	60	160	80	
Plant	250	125	380	190	200	100	
Reissue	380	190	620	310	750	375	
Provisional	250	125	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	60	30
Each independent claim over 3 (including Reissues)	250	125
Multiple dependent claims	450	225

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
30	- 20 or HP	10 x 30.00 =	300.00	Fee (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
4	- 3 or HP	1 x 125.00 =	125.00

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

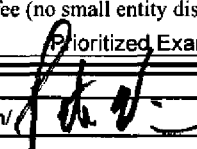
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
32	- 100 =	/50 = (round up to a whole number) x		

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Prioritized Exam Request Fees Paid (\$)
\$2,400.00

SUBMITTED BY			
Signature	/Peter S. Weissman/ 	Registration No. (Attorney/Agent)	40,220
Name (Print/Type)	Peter S. Weissman	Telephone	(202) 772-5800
		Date	March 2, 2012

DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SYSTEM AND METHOD FOR ZERO LATENCY BROWSING

the specification of which

☐ is attached hereto

☒ was filed on 05/17/2011 as United States Application Number or PCT International Application Number 13/109,581 and (if applicable) was amended on _____

I hereby authorize our attorneys to insert the serial number assigned to this application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 USC §119			
APPLICATION No.	COUNTRY	DAY/MONTH/YEAR FILED	PRIORITY CLAIMED

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. §119(e)	
Application Number	Filing Date
61/434089	January 19, 2011

I hereby claim the benefit under 35 U.S.C. §120 of any United States application, or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

PRIOR U.S./PCT INTERNATIONAL APPLICATION(S) DESIGNATED FOR BENEFIT UNDER 35 U.S.C. §120		
Application No.	Filing Date	STATUS — PATENTED, PENDING, ABANDONED

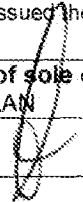
Power of Attorney:

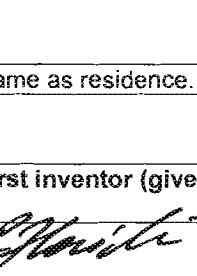
I hereby appoint those registered practitioners associated with Customer Number 27557 as my attorneys and/or agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Correspondence Address:

Please recognize or change the correspondence address for the above-identified application to the address associated with Customer Number 27557. Communications can also be directed to telephone (202) 772-5800 or facsimile (202) 572-8398

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

Full Name of sole or first inventor (given name, family name): Abel AVELLAN	
Signature: 	Date: 15 June 2011
Residence: 333 South Hibiscus Drive Miami, Florida 33139	Citizenship: US
Mailing Address: Same as residence.	

Full Name of sole or first inventor (given name, family name): Payam HERISHI	
Signature: 	Date: 15 June 2011
Residence: 951 Brickell Avenue, #3710 Miami, Florida 33131	Citizenship: US
Mailing Address: Same as residence.	

or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this sale and assignment not been made.

AND for the same consideration, the said Assignor hereby covenants and agrees to and with the said Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the said Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that the said assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, the said Assignor hereby covenants and agrees to and with the said Assignee, its successors, legal representatives and assigns, that the said Assignor will, whenever counsel of the said Assignee or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, that any division, continuation or continuation-in-part of any application for Letters Patent, or reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required

to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to the said Assignor, its successors, legal representatives and assigns, but at the cost and expense of the said Assignee, its successors, legal representatives and assigns.

AND said Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to the said Assignee, as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said assignee, its successors, legal representatives and assigns.

The undersigned hereby grants the firm of Blank Rome LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 6/15/2011

Abel Avellan

STATE OF *Florida*
COUNTY OF *Miami-Dade*

On this *15* day of *June* 2011, personally before me came Abel AVELLAN, known to me, and known to me to be the person described in and who signed the annexed Assignment, and being duly sworn, acknowledged that they executed the same.



THOMAS J. HESS
MY COMMISSION # DD 850780
EXPIRES: January 26, 2013
Bonded Thru Budget Notary Services

NOTARY PUBLIC

My Commission Expires: *26 JAN 2013*

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	SYTEM AND METHOD FOR ZERO LATENCY BROWSING			
First Named Inventor/Applicant Name:	Abel AVELLAN			
Filer:	Peter S. Weissman/Pamela Abachiche			
Attorney Docket Number:	113776.00126			
Filed as Small Entity				
Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Request for Prioritized Examination	2817	1	2400	2400
Pages:				
Claims:				
Claims in excess of 20	2202	10	30	300
Independent claims in excess of 3	2201	1	125	125

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous-Filing:				
Publ. Fee- early, voluntary, or normal	1504	1	300	300
Processing Fee, except for Provis. apps	1808	1	130	130
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				3785

Electronic Acknowledgement Receipt

EFS ID:	12211615
Application Number:	13410599
International Application Number:	
Confirmation Number:	9863
Title of Invention:	SYTEM AND METHOD FOR ZERO LATENCY BROWSING
First Named Inventor/Applicant Name:	Abel AVELLAN
Customer Number:	27557
Filer:	Peter S. Weissman/Pamela Abachiche
Filer Authorized By:	Peter S. Weissman
Attorney Docket Number:	113776.00126
Receipt Date:	02-MAR-2012
Filing Date:	
Time Stamp:	13:40:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$3785
RAM confirmation Number	11436
Deposit Account	232185
Authorized User	

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

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	UtilTrans.PDF	35385	no	1
			390838c0b9d2fe952c4946acd2f98a3c8bde d0dc		

Warnings:

Information:

2	Application Data Sheet	ADS.pdf	1093043	no	5
			d9f199530cd6648029e895266193c9933a8 ebefc		

Warnings:

Information:

3	TrackOne Request	PrioritizeReq.pdf	141326	no	2
			f5c26abaa2d7604e47bbc2bdd476d829b24 235f5		

Warnings:

Information:

4		ApplnDraw.pdf	229508	yes	34
			715935c1863f28b4442c96b5086bb6c299b 70cbb		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Specification	1	27
	Claims	28	31
	Abstract	32	32
	Drawings-only black and white line drawings	33	34

Warnings:

Information:

5	Preliminary Amendment	PrelimAmend2.pdf	109699	no	3
			035c7da2bf73783c16cfc911f4f01e7647b56 405		

Warnings:

Information:

6	Miscellaneous Incoming Letter	PrioritizeFeeTrans.PDF	18085	no	1
			81650fb1da4ce40278b350450558acfa7be650e4		
Warnings:					
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Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	43388	no	2
			831692621b1a83909ed28f493571c6b48f84e186		
Warnings:					
Information:					
Total Files Size (in bytes):			1931470		

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New Applications Under 35 U.S.C. 111

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