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FORM PTO-1595
Rev. 04/2003

05-09-2006



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PU030099

10/551084

10 27 SEP 2005
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
ROBERT ALLEN CASTLEBARY

Additional name(s) of
conveying party(ies)
attached: ☒ Yes ☐ No

3. Nature of convenience:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date February 6, 2004

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):

PCT/US2004/003773

Additional numbers attached?

Yes ☐ No ☒ X

2. Name and address of receiving party(ies):

Name: **GRASS VALLEY (U.S.) Inc.**

Internal Address:

Street Address: **400 Providence Mine Road**

City: **Nevada City**

State: **California**

Zip: **95959**

Additional name(s) & address(es) attached?

☒ Yes ☐ No

5. Name and address of party to whom correspondence

concerning document should be mailed:

Name: **JOSEPH S. TRIPOLI**
Internal Address: **PATENT OPERATIONS**
THOMSON LICENSING INC.

Street Address: **P. O. Box 5312**

City: **PRINCETON** State: **NEW JERSEY** Zip: **08543-5312**

6. Total number of applications and patents involved: **1**

7. Total Fee (37 CFR 3.41): **\$40.00**

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

07-0832

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT B. LEVY

Name of Person Signing

Signature - Registration No.28,234

Date

Total number of pages including cover sheet, attachments, and document **2**

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PATENT
REEL: 017832 FRAME: 0966

ASSIGNMENT AND AGREEMENT

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of _____ joint inventors
(if plural inventors are named below) of the inventions relating to ASYNCHRONOUS JITTER REDUCTION TECHNIQUE

and described in Docket No. **PU030099** and the thereupon-based International (Patent Cooperation Treaty) Application for patent about to be filed or lately filed by said corporation naming me/us as inventor(s).

For valuable consideration received, I hereby sell, assign and transfer to **GRASS VALLEY (U.S.) Inc.**, a corporation duly organized and existing under the laws of the State of Delaware, United States of America, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions and application, and all the rights and privileges under any and all Patents that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

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

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

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

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

I covenant with **GRASS VALLEY (U.S.) Inc.**, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Nevada City, California USA</u>	Date	<u>2/6/2004</u>
Inventor (1)	<u>ROBERT ALLEN CASTLEBARY</u> (Type or Print)	<u>Robert Allen Castlebary</u> (Signature in Full. No initials.)	
Post Office Address	<u>10915 Peaceful Valley Road, Nevada City, California 95959 USA</u>		
1st Witness	<u>IZ VALYIDEN OLMEZ</u> (Type or Print)	<u>Iz Valyiden Olmez</u> (Signature in Full. No initials.)	
2nd Witness	<u>BARRY MICHAEL UNRUH</u> (Type or Print)	<u>Barry Michael Unruh</u> (Signature in Full. No initials.)	
Signed at	_____	Date	_____
Inventor (2)	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
Post Office Address	_____		
1st Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
2nd Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
Signed at	_____	Date	_____
Inventor (3)	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
Post Office Address	_____		
1st Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
2nd Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

Patent Operations
Thomson Licensing Inc.
P. O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT

WHEREAS, **Grass Valley (U.S.) Inc.**, a corporation duly organized and existing under the laws of Delaware, having offices at 400 Providence Mine Road, Nevada City, California 95959 USA and **THOMSON LICENSING**, a corporation organized and existing under the laws of France and having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France, entered into an agreement calling for the assignment of certain inventions, to **THOMSON LICENSING**;

NOW THEREFORE, **Grass Valley (U.S.) Inc.**, in consideration of the mutual covenants of said agreement, does hereby assign to **THOMSON LICENSING**, its successors and assigns, Thomson Licensing S.A.'s entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

US Provisional Application No.60/458,649 filed March 28, 2003
PCT Application No. PCT/US04/003773, filed February 10, 2004
Title: ASYNCHRONOUS JITTER REDUCTION TECHNIQUE

GRASS VALLEY (U.S.) Inc.

By: _____

THOMSON LICENSING

By: _____

Harvey D. Fried	Harvey D. Fried
Sr. Patent Counsel, Reg. No. 28,298	Sr. Patent Counsel, Reg. No. 28,298
Thomson Licensing Inc.	Thomson Licensing Inc.
And Attorney in Fact for	And Attorney in Fact for
Grass Valley	Thomson Licensing

NOTARIAL CERTIFICATE

State of New Jersey)
) :ss
 County of Middlesex)

I do hereby certify that **GRASS VALLEY (U.S.)**, Inc. and **THOMSON LICENSING**, mentioned in the foregoing Assignment, both having offices at the addresses listed above, and that **Harvey D. Fried**, who signed the foregoing Assignment this day, is/are fully authorized to execute the document on behalf of **GRASS VALLEY (U.S.) Inc.** and **THOMSON LICENSING** respectively for this purpose.

Signed and sealed this 13th day of September 2005.


 Notary Public

PATRICIA M. FEDOROWYCZ
 NOTARY PUBLIC OF NEW JERSEY
 My Commission Exp. July 23, 2008

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FORM PTO-1595
9-21-95

PU030099

A/D 581-40

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Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

10/27/2005 SEP 2005

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1. Name of conveying party(ies):

Grass Valley (U.S.) Inc.

Additional name(s) of
conveying party(ies)
attached:

Yes

No X

3. Nature of conveyance:

X Assignment

Merger

Security Agreement

Change of Name

Other

Execution Date: September 13, 2005

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) PCT/US04/003773

2. Name and address of receiving party(ies):

Name: Thomson Licensing

Internal Address:

Street Address: 46 Quai A. Le Gallo

F-92100 Boulogne-Billancourt, France

City:

State:

Zip:

Additional name(s) & address(es) attached?

Yes

No X

Additional numbers attached?

Yes

No

X

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: JOSEPH S. TRIPOLI

Internal Address: PATENT OPERATIONS
Thomson Licensing Inc.

Street Address: P.O. Box 5312

City: PRINCETON State: NEW JERSEY Zip :08543-5312

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ROBERT B. LEVY

Name of Person Signing

Signature - Registration No. 28,234

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PATENT

RECORDED: 09/27/2005

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