

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Arkady Bablumyan</td><td>02/12/2010</td></tr><tr><td>Pierre-Alexandre Jean Blanche</td><td>02/15/2010</td></tr><tr><td>Nasser N Peyghambarian</td><td>02/12/2010</td></tr></tbody></table>		Name	Execution Date	Arkady Bablumyan	02/12/2010	Pierre-Alexandre Jean Blanche	02/15/2010	Nasser N Peyghambarian	02/12/2010		
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TIPD, LLC</td></tr><tr><td>Street Address:</td><td>1430 N. 6th Ave.</td></tr><tr><td>City:</td><td>Tucson</td></tr><tr><td>State/Country:</td><td>ARIZONA</td></tr><tr><td>Postal Code:</td><td>85705-6644</td></tr></table>		Name:	TIPD, LLC	Street Address:	1430 N. 6th Ave.	City:	Tucson	State/Country:	ARIZONA	Postal Code:	85705-6644
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PROPERTY NUMBERS Total: 1											
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Application Number:	12705897										
CORRESPONDENCE DATA											
Fax Number:	(520)844-8644										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	520-760-1754										
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Correspondent Name:	ERIC A. GIFFORD										
Address Line 1:	11770 E. CALLE DEL VALLE										
Address Line 4:	TUCSON, ARIZONA 85749										

OP \$40.00 12705897

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PATENT  
REEL: 023936 FRAME: 0528

ATTORNEY DOCKET NUMBER:	550-01-1-005
NAME OF SUBMITTER:	Eric Gifford
Total Attachments: 3 source=550-01-1-005_TIPD_Asgn#page1.tif source=550-01-1-005_UA_Asgn#page1.tif source=550-01-1-005_UA_Asgn#page2.tif	

**ASSIGNMENT**

Attorney Docket Reference: 550-01-1-005

Client Reference:

**WHEREAS**, each undersigned inventor (hereinafter "ASSIGNOR") of the address indicated *vide infra* is an original and first inventor of "SYSTEM AND METHOD FOR SYNCHRONIZING A SPATIAL LIGHT MODULATOR WITH A PULSED LASER TO RECORD A HOLOGRAM AT THE REPETITION RATE OF THE PULSED LASER", for which an application for Letters Patent of the United States will be filed;

**AND WHEREAS**, TIPD, LLC. (hereinafter "ASSIGNEE"), an entity having its principal place of business and mailing address at 1430 N. 6<sup>th</sup> Ave. Tucson, Arizona, USA, 85705-6644 is desirous of memorializing its interest therein;

**NOW, THEREFORE**, the undersigned ASSIGNOR hereby confirms ASSIGNEE owns the invention as described in the aforesaid application. Nevertheless, to comport with Patent and Trademark Office procedures, ASSIGNOR memorializes that transfer in the form of this Assignment and;

**THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right and title to the invention as described in the aforesaid application, in the United States and all foreign countries, together with any related applications or rights, including any Provisional, Non-provisional, Continuation, Divisional, Reissue, Reexamination, foreign, PCT, or other patent application or like document or right, as well as any right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND HEREBY AGREES** to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and continuing applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

**AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

**EXECUTED** as of the date indicated *vide infra* by ASSIGNOR:

Inventor: Arkady Bablumyan

Signature: [Signature] Date: 02.12.10

Residence address: 9073 Covina St. San Diego, CA 92126-3717

STATE OF CALIFORNIA )

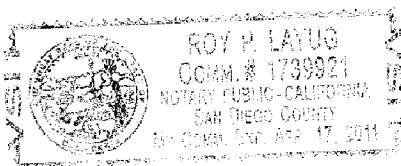
) ss.

COUNTY OF SAN DIEGO )

On this 12 day of FEB, 2010, before me, a notary public in and for said county, appeared Arkady Bablumyan, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and ~~he~~he acknowledges that ~~he~~he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

[Signature]  
Notary Public



**PATENT**  
**REEL: 023936 FRAME: 0530**

**ASSIGNMENT**

Attorney Docket Reference: 550-01-1-005

Client Reference:

**WHEREAS**, each undersigned inventor (hereinafter "ASSIGNOR") of the address indicated *vide infra* is an original and first inventor of "SYSTEM AND METHOD FOR SYNCHRONIZING A SPATIAL LIGHT MODULATOR WITH A PULSED LASER TO RECORD A HOLOGRAM AT THE REPETITION RATE OF THE PULSED LASER", for which an application for Letters Patent of the United States will be filed;

**AND WHEREAS**, THE ARIZONA BOARD OF REGENTS on behalf of THE UNIVERSITY OF ARIZONA (hereinafter "ASSIGNEE"), an entity having its principal place of business and mailing address at 888 N. Euclid Ave., Rm. 204 Tucson, Arizona, USA, 85721 is desirous of memorializing its interest therein;

**NOW, THEREFORE**, the undersigned ASSIGNOR hereby confirms ASSIGNEE owns the invention as described in the aforesaid application. Nevertheless, to comport with Patent and Trademark Office procedures, ASSIGNOR memorializes that transfer in the form of this Assignment and;

**THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right and title to the invention as described in the aforesaid application, in the United States and all foreign countries, together with any related applications or rights, including any Provisional, Non-provisional, Continuation, Divisional, Reissue, Reexamination, foreign, PCT, or other patent application or like document or right, as well as any right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND HEREBY AGREES** to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and continuing applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

**AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

**EXECUTED** as of the date indicated *vide infra* by ASSIGNOR:

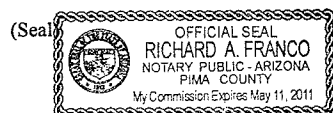
Inventor: Pierre-Alexandre Jean Blanche


Signature:  Date: 02/15/2010

Residence address: 624 S. Santa Ana Dr., Tucson, Arizona 857120

STATE OF Arizona )  
 ) ss.  
COUNTY OF Pima )

On this 15<sup>th</sup> day of February, 2010, before me, a notary public in and for said county, appeared Pierre-Alexandre Jean Blanche, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.



  
Notary Public

Inventor: Nasser N. Peyghambarian

Signature: [Signature]

Date: 2-12-10

Residence address: 5507 N. Paseo Ventoso, Tucson Arizona 85750

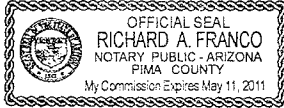
STATE OF Arizona )

) ss.

COUNTY OF Pima )

On this 12<sup>th</sup> day of February, 2010, before me, a notary public in and for said county, appeared Nasser N. Peyghambarian, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and s/he acknowledges that s/he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)



[Signature]  
Notary Public