# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5454176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
OCTAVI SANTIAGO ESCALA SEMONIN	04/02/2019
DANIEL GUILFORD PATTERSON	04/02/2019
RETO ADRIAN FURLER	04/02/2019
ANDREW JAMES RITENOUR	04/02/2019

### **RECEIVING PARTY DATA**

Name:	ALTA DEVICES, INC.
Street Address:	545 OAKMEAD PARKWAY
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94085

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16373305

## CORRESPONDENCE DATA

Fax Number: (202)857-6395

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

Phone: 202-857-6000

Email: patentdocket@arentfox.com, Patrick.Lemus@arentfox.com

ARENT FOX LLP **Correspondent Name:** 1717 K STREET, NW Address Line 1:

Address Line 4: WASHINGTON, D.C. 20006-5344

ATTORNEY DOCKET NUMBER:	037620.00439
NAME OF SUBMITTER:	PATRICK LEMUS
SIGNATURE:	/Patrick Lemus/
DATE SIGNED:	04/02/2019

**Total Attachments: 1** 

source=037620.00439 Assignment as filed 04-02-2019#page1.tif

**PATENT** REEL: 048773 FRAME: 0501

Docket No. 037620.00439

# WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00 US), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

Name(s) and Address(es) Sunnyvelac Parkeys  (hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees a hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the to soue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the time the time of invention!  [Pif the assignment is being filled and the properties of the undersigned to the speciation, the templated of the application for Letters Patent of the United States was executed on even date herewith unless othe indicated below:  [Arout Fox LIP is breeby authorized to insert the series code, serial number and/or filling date, whon known)  and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substrained therefor the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuation with such applications delaining priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications of the regal proceeding. Which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications delaining priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary in connection with any interference, litigated other legal proceeding.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) af	[Insert ASSIGNEE's	ALTA DEVICES, INC.							
(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees I hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention titled  Tride of Invention  Tride of Invention  LASER-TEXTURED THIN-FILM SEMICONDUCTORS BY MELTING AND ABLATION  for which application for Letters Patent of the United States was executed on even date herewith unless othe indicated below:  after the fling of the application this section must be completed)  April 2, 2019  Serial No.:  16/373,305  filed on April 2, 2019  Serial No.:  16/373,305  the application of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, subspaces research in the reof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuation-in-part, reissue or reexamination applications thereof and any other applications of the applications thereof and any other applications of the provements, also to execute separate assignments in connewith such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with applications of the replications of the provements, also to execute separate assignments in connewith such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon,	Name(s) and	545 Oakmead Parkway							
(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees thereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention titled  LASER-TEXTURED THIN-FILM SEMICONDUCTORS BY MELTING AND ABLATION  for which application for Letters Patent of the United States was executed on even date herewith unless other indicated below:  and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substructions of the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuation-in-part, reissue or reexamination applications applications thereof and any other applications are hassignments in conne with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigatic other legal proceeding which may be declared concerning this application or any continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and other applications claiming priority thereto, including future inventions or improvements, and to cooperate with such applications claiming priority thereto, including ruture inventions or improvements, and to cooperate with such applications claiming priority thereto, including ruture inventions or improvements, and to cooperate with such applications claiming priority thereto, including ruture inventions or improvements, and to cooperate with such applications claiming priority thereto, including ruture inventions or improvements, and to cooperate with assignments.  [Signature(s)]  (Signature(s))  (Signature(s))  (Signature(s))  (Signature(s)	Address(es)]								
for which application for Letters Patent of the United States was executed on even date herewith unless othe indicated below:    Filed on   April 2, 2019   Serial No.: 16/373,305		(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees to and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right							
indicated below:  indicated below:  indicated below:  indicated below:  indicated below:  indicated below:  filed on April 2, 2019  Serial No.: 16/373,305  (Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)  and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substreaments, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with applications and any continuation-in-part, reissue or reexamination applications thereof and any other applications claim priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigated other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and other applications claiming priority thereto, including future inventions or improvements, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interfer litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Getavi Santiago Escala SEMONIN  (TYPE NAME)  (DATE)  Reto Adrian FURLER  (TYPE NAME)  (DATE)  Andrew James RITENOUR		LASER-TEXTURED THIN-FILM SEMICONDUCTORS BY MELTING AND ABLATION							
filed on April 2, 2019 Serial No.: 16/373,305  this section must be completed]  and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substreaming priority thereto, including future invention improvements, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuational, continuation-in-part, reissue or reexamination applications between any other applications and priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigatic other legal proceeding which may be declared concerning this application or any continuation, divisional applications claiming priority thereto, including future inventions or improvements, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interfer litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (Signature(s) of Assignor(s))  Octavi Santiago Escala SEMONIN  (TYPE NAME)  (DATE)  Paniel Guilford PATTERSON  (TYPE NAME)  (DATE)  Reto Adrian FURLER  (TYPE NAME)  (DATE)  Andrew James RITENOUR	is being filed	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:							
Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)  and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substreissue or reexamination thereof, and any other applications claiming priority thereto, including future invention improvements, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigatic other legal proceeding which may be declared concerning this application or any continuation, division continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and other applications claiming priority thereto, including future inventions or improvements, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interfer litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (Signature(s) (TYPE NAME) (DATE)  (Signature) (TYPE NAME) (DATE)  (Signature) (DATE)  (Signature) (DATE)  Andrew James RITENOUR	the application,	filed on	April 2, 2019	Serial No.;	16/373,305				
obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substreasue or reexamination thereof, and any other applications claiming priority thereto, including future invention improvements, for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with applications and any continuation-in-part, reissue or reexamination applications thereof and any other applications claimed priority thereto, including future inventions or improvements, also to execute separate assignments in connection with applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and other applications claiming priority thereto, including future inventions or improvements, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interfer litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Octavi Santiago Escala SEMONIN  (Signature(s) Octavi Santiago Escala SEMONIN  (Signature) (DATE)  Reto Adrian FURLER  (SIGNATURE) (TYPE NAME) (DATE)  Reto Adrian FURLER  (SIGNATURE) (TYPE NAME) (DATE)  Andrew James RITENOUR		(Arent Fox L	LP is hereby authorized to inse	rt the series code, serial number and	Jor filing date, when kno	wn)			
other legal proceeding which may be declared concerning this application or any continuation, division continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and other applications claiming priority thereto, including future inventions or improvements, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interfer litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Signature(s) of Assignor(s)]  Octavi Santiago Escala SEMONIN  (TYPE NAME)  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  Reto Adrian FURLER  (SIGNATURE)  (DATE)  Andrew James RITENOUR		obtained therefor of reissue or reexamin improvements, for the ASSIG divisional, continue priority thereto, inc	on said application or a ation thereof, and any othe he full term or terms for GNOR agrees to execute tion-in-part, reissue or reluding future inventions	ny continuation, divisional ner applications claiming pri which the same may be gran all papers necessary in conn eexamination applications to or improvements, also to e	, continuation-in-pa lority thereto, includ- ited. ection with applicati hereof and any othe execute separate assi	rt, renewal, substitute, ing future inventions or ion and any continuing, r applications claiming			
[Signature(s) of Assignor(s)]  (SIGNATURE)  (TYPE NAME)  (TYPE NAME)  (TYPE NAME)  (DATE)  Andrew James RITENOUR		other legal procee continuation-in-part other applications of ASSIGNEE in eve litigation, or other le	ding which may be de , reissue or reexaminate laiming priority thereto, ry way possible in obtain egal proceeding.	clared concerning this ap- on thereof or Letters Patent including future inventions on ning and producing eviden	plication or any co or reissue patent is or improvements, an ce and proceeding	ontinuation, divisional, ssued thereon, and any d to cooperate with the with such interference,			
Octavi Santiago Escala SEMONIN 7/2/16  (SIGNATURE) (TYPE NAME) (DATE)  Daniel Guilford PATTERSON 7/4/9  (SIGNATURE) (TYPE NAME) (DATE)  Reto Adrian FURLER 4/2/7  (SIGNATURE) (TYPE NAME) (DATE)  Andrew James RITENOUR 4/2/19	. w	DN 9741111	> winktooi, the and	noighed inventories) has the	(c) amven manenan	on signature(2).			
(SIGNATURE) (TYPE NAME) (DATE)  Daniel Guilford PATTERSON 7 19  (SIGNATURE) (TYPE NAME) (DATE)  Reto Adrian FURLER 4/2/2  (SIGNATURE) (TYPE NAME) (DATE)  Andrew James RITENOUR 4/2/19		in the second second	1100	Octavi Santiago E	scala SEMONIN	4/2/19			
(SIGNATURE) (TYPE NAME) (DATE)  Reto Adrian FURLER 4/2/2  (SIGNATURE) (TYPE NAME) (DATE)  Andrew James RITENOUR 4/2/19		/ (SJG	NATURE)			(DATE)			
Reto Adrian FURLER  (SNGNATURE)  (SNGNATURE)  (TYPE NAME)  (DATE)  Andrew James RITENOUR  4/2-/19	» /-	a front		Daniel Guilford	PATTERSON	4219			
(SIGNATURE) (TYPE NAME) (DATE)  Andrew James RITENOUR 4/2/19		(SIO	NATURE)	(TYPE)	NAME)	(DATE)			
Andrew James RITENOUR 4/2/19		WHO F		Reto Adrian	FURLER	-4/2/2019			
		A A (SAG	NATURE)	***************************************		(DATE)			
		Hatel H		Andrew James	RITENOUR	4/2/19			
(DATE)	:	(§1G	NATURE)	(TYPE)		(DATE)			

PATENT REEL: 048773 FRAME: 0502

**RECORDED: 04/02/2019**