503588618 11/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3635248

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MR. JOHN FOSTER	11/24/2015
MR. MICHAEL PATTERSON	11/24/2015

RECEIVING PARTY DATA

Name:	US GOVERNMENT ADMINISTRATOR OF NASA
Street Address:	300 E STREET SW
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20546-0001

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	10894225			

CORRESPONDENCE DATA

Fax Number: (216)433-6790

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: 216-433-3663

Email: ROBERT.EARP@NASA.GOV

Correspondent Name: ROBERT H. EARP, III

Address Line 1: 21000 BROOKPARK ROAD

Address Line 2: MS 142-7

Address Line 4: CLEVELAND, OHIO 44135

ATTORNEY DOCKET NUMBER:	LEW 17561-1
NAME OF SUBMITTER:	11/30/2015
SIGNATURE:	/ROBERT.H.EARPIII/
DATE SIGNED:	11/30/2015

Total Attachments: 4

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PATENT 503588618 REEL: 037167 FRAME: 0474

RECORDATION FORM COVER SHEET					
PATENTS ONLY					
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.					
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)				
	Name: United States Government Administrator of National Aeronautics and Space Administration				
John Foster	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes No					
3. Nature of conveyance/Execution Date(s):	Street Address: 300 E Street, SW				
Execution Date(s) 11/24/2015					
Assignment Merger Security Agreement Change of Name	City: Washington				
Joint Research Agreement	State: DC				
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: USAzip: 20546-0001				
Other	Additional name(s) & address(es) attached? Yes No				
4. Application or patent number(s):	document serves as an Oath/Declaration (37 CFR 1.63).				
A. Patent Application No.(s)	B. Patent No.(s)				
10/894,225					
Additional numbers at	ached? Yes No				
5. Name and address to whom correspondence	6. Total number of applications and patents				
concerning document should be mailed: Name: Robert H. Earp, III	involved:				
	7. Total fee (37 CFR 1.21(h) & 3.41) \$0				
Internal Address: MS 142-7	<u> </u>				
	Authorized to be charged to deposit account				
Street Address: 21000 Brookpark Road	Enclosed				
Street Address: 21000 Brookpark Road City: Cleveland	Enclosed				
	Enclosed None required (government interest not affecting title)				
City: Cleveland	Enclosed None required (government interest not affecting title) 8. Payment Information				
City: Cleveland State: OH Zip: 44135	Enclosed None required (government interest not affecting title)				
City: Cleveland State: OH	Enclosed None required (government interest not affecting title) 8. Payment Information				
City: Cleveland State: OH Zip: 44135 Phone Number: 216-433-3663 Docket Number: LEW 17561-1	Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number				
City: Cleveland State: OH Zip: 44135 Phone Number: 216-433-3663 Docket Number: LEW 17561-1 Email Address: Robert.Earp@nasa.gov 9. Signature: Signature	Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name				
City: Cleveland State: OH Zip: 44135 Phone Number: 216-433-3663 Docket Number: LEW 17561-1 Email Address: Robert.Earp@nasa.gov 9. Signature: Signature Robert H. Earp, III	Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name November 30, 2015 Date Total number of pages including cover				
City: Cleveland State: OH Zip: 44135 Phone Number: 216-433-3663 Docket Number: LEW 17561-1 Email Address: Robert.Earp@nasa.gov 9. Signature: Signature	Enclosed None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name November 30, 2015 Date Total number of pages including cover sheet, attachments, and documents:				

PATENT REEL: 037167 FRAME: 0475

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

Docket Number: 17561-1

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

Michael Patterson

PATENT REEL: 037167 FRAME: 0476



Assignment to the Government (by Government Employee)

Title of Invention:	LARGE AREA PI	LASMA SOURCE				
Invantor(s):	John Foster, Mich	ael Patterson				
NASA Case No.:	LEW 17561-1	Application No.*:	10/894,225	Fiii	ng Date*:	07/14/2004
WHEREAS, the par Dovernment (herea Administration;	ties to this Assignme fler Government), as	nt and Agreement an represented by the A	e the undersigned i dministrator of the	nventor(s National) and the Ur Aeronautics	illed States and Space
WHEREAS, the ma	king of this Assignme	ent and Agreement is	in accordance with	37 CFR	Part 501; en	đ
MHEREAS, the unc States Patent on the	iersigned inventor(s) above-entitled inver	has (have) exscuted, slipn.	on the date(s) indi	icaled be	ow, an appli	cation for United
 Assign to the America, its territoria 	(, in consideration of a Government my (our se and possessions, a nuation or divisional a	r) full and exclusive ri and my (our) entire ri	ght in and to said is ght, title and interes	nvention st in and	within the Un to said apolic	aited States of cation, and any
iccordance with 37 imended. If the Gov wuntry, in accordan ionexclusive, irrevo	nt to the Government CFR 501.9(d), includ remment chooses no res with 37 CFR 501. cable, royalty-free lice is of such reservation	ling rights of priority u it to file an application 9(d), and such rights ense in the invention	nder the internation in any foreign cou will be subject to the with power to grant	nal Convi ntry, I (w le reservi Llicenses	ention of Par s) may reque siton to the C for all cover	is (1883), as ast rights in that Severnment of a nmental
nformation to, and (expense of the Gove c) to cooperate in any by this Assignment er	y manner with the Go	te any document fo vernment in order t	r, (b) to c to allow t	eliver any re te Governm	quested ant to protect any
bove when refluire	Jarle-		pilcation to insert the state of the state o			and filing date
(Signefure of Inventor	,0	(D	ate Assignment Exec	uted)	(Data Applic	ation Executed)
lohn Fester (Inventor's Typed Nar	ne)	3095 Deat (Meiling Add	Creek Court, Ann	Arlsor M by)	ichigan, 483	09 USA
					8/	7/14/2004
(Signature of Inventor	} .	(0)	ste Assignment Exec	uted)		ellan Executed)
Michael Patterson (Invariar's Typed Nac	ini)	(Mailing Add	reas - Including Coun	tryj		······································
(Signature of Inventor	}	70	ate Assignment Exec	udedi	(Date Annile	alion Executed)
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(inventor's Typed Nac	ney	(Masing Add)	ress - Including Count	rry)		

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PATENT REEL: 037167 FRAME: 0477



Assignment to the Government (by Government Employee)

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Title of Invention:	LARGE AREA PL	ASMA SOURCE			
Inventor(s):	John Foster, Micha	el Patterson			
NASA Case No.	LEW 17561-1	Application No.*:	10/894,225	Filing Date*:	07/14/2004
			the undersigned inve dministrator of the Na		
WHEREAS, the make	king of this Assignmen	nt and Agreement is	in accordance with 37	CFR Part 501; and	Í
	ersigned inventor(s) has above-entitled inventor		on the date(s) indicat	ed below, an applic	ation for United
Assign to the America, its territorie	Government my (our es and possessions, a) full and exclusive ri ind my (our) entire ri	overnment, the under ght in and to said inve ght, title and interest in patent(s) that may is	ntion within the Uni	
accordance with 37 amended. If the Gov country, in accordan nonexclusive, irrevolutions	CFR 501.9(d), including rernment chooses not use with 37 CFR 501.9 cable, royalty-free lice	ng rights of priority u to file an application I(d), and such rights rnse in the invention	lusive foreign rights in nder the International in any foreign countr will be subject to the r with power to grant lic acticable, in any foreig	Convention of Parisy, I (we) may reque eservation to the Genses for all govern	s (1883), as st rights in that lovernment of a nmental
information to, and (manner with the Go	te any document for, (evernment in order to a		
*4. Authorize and above when required		s of record in the ap	plication to insert the		
(Signature of Inventor	······································	7/0	ate Assignment Execute		7/14/2004 ation Executed)
"John-Eoster	,	,c,	are manifestario es manosto.	a) (Duite repine	ecocs managed by
(Inventor's Typed-Nag	ne) s	(Mailing Add	ress - Including Country)		
-/23×< 4			11/24/2015	n-	7/14/2004
(Signature of Inventor	Carried Comments		ate Assignment Execute		stion Executed)
Michael Patterson	8		t 23rd Street, Clevelar		
(Inventor's Typed Nan	ne)		ress - Including Country)		
(Signature of Inventor)	{D	ate Assignment Execute	d) (Date Applica	stion Executed)
(inventor's Typed Nan	ne)	(Mailing Add	ress - Including Country)	<u>.</u>	

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PATENT REEL: 037167 FRAME: 0478

RECORDED: 11/30/2015