501985915 07/12/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE	

CONVEYING PARTY DATA

Name	Execution Date
Columbia University New York Morningside	06/25/2012

RECEIVING PARTY DATA

Name:	National Science Foundation		
Street Address:	4201 Wilson Blvd		
Internal Address:	Room 1265		
City:	Arlington		
State/Country:	VIRGINIA		
Postal Code:	22230		

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US1164414

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PATENT 501985915 REEL: 028548 FRAME: 0762

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Invention Title: [2]	pelined ADC s	tage withou	it using big r	eference buff	er
Inventor(s). Pete	t Kinget, Jan	ua Shen			
U.S. Filing/Issue (Date: 12//2/	2011			
Patent or Applicat	tion Serial No.:	<u> PCT/US</u>	2011/06/419		
Grant/Contract No	umber(s): PHY061	2811			
Foreign Applicatio	ns filed/intended i	n (countries)			
at 37 CFR 401.14	4, FAR 52.227-11	or FAR 52.22	! <mark>7-12</mark> (if applicable	e) which are inclu	d the Standard Patent Rights claus ided among the terms of the abov int is confirmatory of:
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The Government application.	is hereby grante	d an irrevocal	ole power to insp	ect and make co	pies of the above-identified pater
Signed this	25	day of	June	.20 12	<u>.</u>
					/14pl
By(institu	Juonal Business C	ificial)		(Signature)	
Title					Scot G. Hamilton Senior Director
For COLUMBIA U	NITT RIDER VICES &	onpermente			Columbia Technology Ventures
	antee/Contractor (*********			
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