

Form **PTO-1595**





RTMENT OF COMMERCE

ent and Trademark Office

ocket No. 53893-5054US1 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

1. Name of conveying parties: 2. Name and address of receiving party(ies): The Trustees of the University of Pennsylvania James L. Riley Name: Carl H. June Address: 3160 Chestnut Street Robert H. Vonderheide Suite 200 Nicole Aqui Philadelphia, PA 19104 Megan M. Suhoski Additional name(s) of conveying party(ies) attached? □ Yes ■ No. 3. Nature of Conveyance: ■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other: Execution date(s): August 19, 22, 26, 2005 and September 16, Additional name(s) and address(es) attached? □ Yes ■ No 2005 4. Application number(s) or patent number(s): Patent Application No.(s): 11/137,807, filed May 25, 2005 A. Patent No.(s): Additional numbers attached? □ Yes ■ No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: Total fee (37 CFR 3.41) \$40.00 Kathryn Doyle ■ Enclosed DRINKER BIDDLE & REATH LLP One Logan Square ☐ Authorized to be charged to deposit account 18th & Cherry Streets Philadelphia, PA 19103 8. Deposit Account No. 50-0573 DO NOT USE THIS SPACE 9. Signature October 28, 2005 Darryl Pratcher Signature Date Name of Person Signing

Total number of pages including cover sheet, attachments and documents: 17

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PATENT IIIR BEL: 017171 FRAME: 0904

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ASSIGNMENT

WHEREAS, We, James L. Riley, Carl H. June, Robert H. Vonderheide, Nicole Aqui and Megan M. Suhoski, with respective post office addresses of 435 Creekside Drive, Downingtown, Pennsylvania 19335, 409 Baird Road, Merion Station, Pennsylvania 19066-1416, 518 Lafayette Road, Merion Station, Pennsylvania 19066, 2713 North 45th Street, Philadelphia, Pennsylvania 19131, 5176 Nuangola Road, Nuangola, Pennsylvania 18707, citizens of the United States of America, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR

for which I have executed a United States patent application, Application No.: 11/137,807, filed May 25, 2005, and

ASSIGNORS authorize ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing Date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, The Trustees of the University of Pennsylvania, with a principal place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104-6283, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the

 same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

(Seal)

Before me, a notary public in and for the State and County aforesaid, on this 2^{2ND} day of Avgust, 2005, personally appeared James L. Riley, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his/her free deed and act, signed, sealed and delivered by his/her for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

My Commission Expires: 1)()V, (0, 2005

Notarial Seal Chrystal Mackey, Notary Public Caln Twp., Chester County
My Commission Expires Nov. 10, 2005

Member, Pennsylvania Association of Notaries

		(Seel)
Date	Carl H. June	(Seal)
STATE OF	: ss.	
Before me, a notary pof, 200: known, and who having first me first duly sworn, did ac signed, sealed and delivered	oublic in and for the State and County aforesaid, on this	e personally ave been by eed and act,
Date	Notary Public My Commission Expires: Robert H. Vonderheide	(Seal)
STATE OF	:	
COUNTY OF	: ss.	
of, 2003 personally known, and who have been by me first duly s and act, signed, sealed and d	oublic in and for the State and County aforesaid, on this	peing to me resence and er free deed
	Notary Public My Commission Expires:	

Date	Nicole Aqui	(Seal)
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STATE OF	.	
	: ss.	
COUNTY OF	;	
of, 2005 known, and who having first me first duly sworn, did ac signed, sealed and delivered	ublic in and for the State and County aforesaid, on this	e personally have been by leed and act
	Notary Public	
	My Commission Expires:	
		(Seel)
Date	Megan M. Suhoski	(Seal)
STATE OF	:	
COUNTY OF	: SS. :	
of, 2000 personally known, and who have been by me first duly st and act, signed, sealed and d	ublic in and for the State and County aforesaid, on this	peing to me presence and her free deed
	Notary Public	
	My Commission Expires:	

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Data	Y I Dil	(Seal)
Date	James L. Riley	
STATE OF		
COUNTY OF	: SS.	
of, 200 known, and who having first me first duly sworn, did a signed, sealed and delivered	public in and for the State and County aforesaid, on this	e personally ave been by ed and act,
	Notary Public	
	My Commission Expires:	

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25 Ang Of Date	Carl H. June	(Seal)
COUNTY OF Montgoner	: : ss:	
of <u>hygost</u> , 2005, per known, and who having first exec me first duly sworn, did acknow	in and for the State and County aforesaid, on this sonally appeared Carl H. June, who being to me uted the foregoing instrument in my presence and hydedge the foregoing instrument as his/her free desis/her for the purpose therein stated and intending the said instrument be recorded. Notary Public My Commission Expires: Pr / OY/O	e personally ave been by eed and act, so be legally
Date	Robert H. Vonderheide	(Seal)
STATE OF	: : ss.	
COUNTY OF	:	
of, 2005, perspersonally known, and who having have been by me first duly sworn, and act, signed, sealed and deliver	in and for the State and County aforesaid, on thissonally appeared Robert H. Vonderheide, who beging first executed the foregoing instrument in my period did acknowledge the foregoing instrument as his/hed by his/her for the purpose therein stated and integer that said instrument be recorded.	resence and er free deed
	Notary Public	
	My Commission Expires:	

		(Seal)
Date	Nicole Aqui	(Sour)
STATE OF	:	
COUNTY OF	: ss. :	
of, 2005 known, and who having first me first duly sworn, did ac signed, sealed and delivered	ublic in and for the State and County aforesaid, on the personally appeared Nicole Aqui, who being executed the foregoing instrument in my presence knowledge the foregoing instrument as his/her to by his/her for the purpose therein stated and intenthat said instrument be recorded.	to me personally e and have been by free deed and act,
,	Notary Public	
	My Commission Expires:	
Date	Moon M Sub-uli	(Seal)
Date	Megan M. Suhoski	
STATE OF	: : ss.	
COUNTY OF	;	
of, 2005 personally known, and who have been by me first duly sy and act, signed, sealed and de	ablic in and for the State and County aforesaid, on the state of the state and County aforesaid, on the state of the foregoing instrument in worn, did acknowledge the foregoing instrument a elivered by his/her for the purpose therein stated a tending that said instrument be recorded.	who being to me a my presence and s his/her free deed
	Notary Public My Commission Expires:	

ATTORNEY DOCKET NO.: 538935054US1 **JOINT**

ASSIGNMENT

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PATENT REEL: 017171 FRAME: 0913

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Date	James L. Riley	_ (Seal)
STATE OF		
COUNTY OF	: SS. :	
of, 2005, known, and who having first e me first duly sworn, did ack signed, sealed and delivered b	polic in and for the State and County aforesaid, on this personally appeared James L. Riley , who being to executed the foregoing instrument in my presence are nowledge the foregoing instrument as his/her free by his/her for the purpose therein stated and intendinat said instrument be recorded.	o me personally nd have been by e deed and act,
-	Notary Public My Commission Expires:	

Date	Carl H. June	(Seal)
STATE OF	:	
COUNTY OF	: SS. :	
of, 2005, per known, and who having first exec me first duly sworn, did acknow	in and for the State and County aforesaid, on this resonally appeared Carl H. June , who being to me cuted the foregoing instrument in my presence and have vledge the foregoing instrument as his/her free decis/her for the purpose therein stated and intending to said instrument be recorded.	personally we been by d and act,
a/16/05	Notary Public My Commission Expires: Robert H. Vonderheide	(Seal)
STATE OF A MONTGOMERY	: : ss.	
of September, 2005, per personally known, and who havin have been by me first duly sworn, and act, signed, sealed and deliver	in and for the State and County aforesaid, on this	ing to me sence and free deed
	Notary Public My Commission Expires:	

PATENT

NOTARIAL SEAL
MARGARET SIMPSON, Notary Public
Lower Merion Twp Montgomery County
My Commisation Expires April 2, 2006

		(G 1)
Date	Nicole Aqui	(Seal)
STATE OF		
COUNTY OF	: SS. :	
of, 2005, known, and who having first me first duly sworn, did ack signed, sealed and delivered b	ablic in and for the State and County aforesaid, on this, personally appeared Nicole Aqui, who being to nexecuted the foregoing instrument in my presence and knowledge the foregoing instrument as his/her free oby his/her for the purpose therein stated and intending that said instrument be recorded.	have been by deed and act,
	Notary Public My Commission Expires:	
Date	Megan M. Suhoski	(Seal)
	Wegan W. Sanski	
STATE OF	: ss.	
of, 2005 personally known, and who I have been by me first duly sw and act, signed, sealed and de	blic in and for the State and County aforesaid, on this, personally appeared Megan M. Suhoski, who having first executed the foregoing instrument in my worn, did acknowledge the foregoing instrument as his elivered by his/her for the purpose therein stated and intending that said instrument be recorded.	being to me presence and her free deed
	Notary Public My Commission Expires:	

PATENT

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PATENT
■REEL: 017171 FRAME: 0917

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Date	James L. Riley	(Seal)
STATE OF	: SS.	
of, 2005, per known, and who having first exec me first duly sworn, did acknow	in and for the State and County aforesaid, on thissonally appeared James L. Riley, who being to me cuted the foregoing instrument in my presence and haveledge the foregoing instrument as his/her free decis/her for the purpose therein stated and intending to said instrument be recorded.	personally we been by ed and act,
	Notary Public My Commission Expires:	

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		(Seal)
Date	Carl H. June	(Dour)
STATE OF	:	
COUNTY OF	: ss. :	
of, 2005 known, and who having first me first duly sworn, did ac signed, sealed and delivered	bublic in and for the State and County aforesaid, on this	e personally have been by eed and act,
	Notary Public My Commission Expires:	
Date	Robert H. Vonderheide	(Seal)
STATE OF		
COUNTY OF	: ss. :	
of, 2005 personally known, and who have been by me first duly so and act, signed, sealed and d	sublic in and for the State and County aforesaid, on this	being to me resence and er free deed
	Notary Public My Commission Expires:	

	,
Date Nicole Aqui	(Seal)
STATE OF Tennsylvania:	
STATE OF <u>Fennsylvania</u> : COUNTY OF <u>Philadelphia</u> :	
Before me, a notary public in and for the State and County aforesaid, on this 19 to me per known, and who having first executed the foregoing instrument in my presence and have me first duly sworn, did acknowledge the foregoing instrument as his/her free deed signed, sealed and delivered by his/her for the purpose therein stated and intending to be bound thereby and intending that said instrument be recorded.	been by
Manylan Danka Notary Public My Commission Expires: 12-19-05	-
Date Megan M. Suhoski	(Seal)
STATE OF COUNTY OF The Lalphi SS.	
Before me, a notary public in and for the State and County aforesaid, on this of Lugust, 2005, personally appeared Megan M. Suhoski, who being personally known, and who having first executed the foregoing instrument in my present have been by me first duly sworn, did acknowledge the foregoing instrument as his/her frand act, signed, sealed and delivered by his/her for the purpose therein stated and intending legally bound thereby and intending that said instrument be recorded.	ee deed

Notary Public

My Commission Expires: 12-19-02

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