12-22-2004 U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Docket No. 3213/111 al documents or copy thereof. 102909497 of receiving party(ies) 1. Name of conveying party(ies): Name: Boyce Thompson Institute for Plant Research William D.O. Hamilton FINANCE SECTION Koen Hellendoorn Street Address: Tower Road Timothy D. Jones Dwayne D. Kirk City: Ithaca State: New York Zip: 14855-1801 Additional name(s) of conveying party(ies) attached? 
Yes 
No Country: U.S.A. Postal Code: \_\_ 3. Nature of conveyance: ✓ Assignment ☐ Merger Additional name(s) & address(es) attached? 

Yes 
No ☐ Change of Name ☐ Security Agreement ☐ Other Execution Date(s): 1<sup>st</sup> Inventor: October 18, 2004 2<sup>nd</sup> Inventor: October 19, 2004 3<sup>rd</sup> Inventor: October 19, 2004 4th Inventor: November 16, 2004 4. Application number(s) or patent number(s); If this document is being filed together with a new application, the filing date of the application is: B. Patent No.(s) Patent Application No.(s) 10/895,791 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: 7. Total fee (37 CFR 3.41) ...... \$40.00 Attorney Name: Michael L. Goldman, Esq. Enclosed Firm Name: Nixon Peabody LLP ☐ Authorized to be charged to deposit account Internal Address: 8. Deposit account number: 14-1138 Street Address: Clinton Square, P.O. Box 31051 (Attach duplicate copy of this page if paying by deposit account) City: Rochester State: NY Zip: 14603-1051 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Novem Kormoly Date Date Noreen L. Connolly Name of Person Signing Registration No. 48,987 Total number of pages including cover sheet, attachments, and documents: CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)] I hereby certify that this correspondence is being:

deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450

transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703)\_\_\_

December 16,2004 Date 12/21/2004 ECOOPER 00000021 10895791

Jo Ann Whalen Typed or printed name

01 FC:8021

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office, Attachment to Recordation Form Cover Sheet (Page 2) Docket No. <u>3213/111</u>

1. Name of conveying party(ies) (Cont.):

Hugh S. Mason Xiuren Zhang Charles J. Arntzen

3. Execution Dates of Assignment (Cont.):

5<sup>th</sup> Inventor: November 30, 2004 6<sup>th</sup> Inventor: December 7, 2004 7<sup>th</sup> Inventor: November 30, 2004

WHEREAS, We, William D.O. Hamilton, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, Koen Hellendoorn, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, Timothy D. Jones, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, Dwayne D. Kirk, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, Hugh S. Mason, a United States citizen, residing at 16833 S. 24<sup>th</sup> Place, Phoenix, Arizona 85048, Xiuren Zhang, a Chinese citizen, residing at 504 E. 63<sup>rd</sup> Street, Apt. 7S, New York, New York 10021, and Charles J. Arntzen, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS for which an application for Letters Patent in the United States, was filed as U.S. Serial No. 10/895,791 on July 21, 2004;

AND WHEREAS, Boyce Thompson Institute for Plant Research, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Boyce Thompson Institute for Plant Research, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Boyce Thompson Institute for Plant Research, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

enforce proper patent protection for said imp	provements in all countries.
IN TESTIMONY WHEREO of <u>October</u> , 2004.	F, I hereunto set my hand and seal this 19 day
	W. JG. Hamilton
	William D.O. Hamilton
Witnessed:	Witnessed:
Name JONATHAN HEAL	Name SIMON GRIMSHAW
Address 20 ASH G-ROVE,	Address 96 STANCEY RD
MAN-3417TOH	CAMBRIDGE
Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Date: <u>18/10/04</u>

R789315.1

of, 2004.	REOF, I hereumo set my hand and sear this day
	Koen Hellendoorn
Witnessed:	Witnessed:
NameAddress	NameAddress
Date:	Date:
IN TESTIMONY WHE	REOF, I hereunto set my hand and seal this day  Timothy D. Jones
Witnessed:	Witnessed:
NameAddress	Name Address
Date:	Date:
of, 2004.	REOF, I hereunto set my hand and seal this day  Dwayne D. Kirk
STATE OF	Dwayne D. Kirk
COUNTY OF SS:  This day of above-named <b>Dwayne D. Kirk</b> , to me same of his/her own free will for the pro-	, 2004, before me personally came the personally known as the individual who executed the urposes therein set forth.
	Notary Public Commission expires on

of	IN TESTIMONY WHERE, 2004.	EOF, I hereunto set my hand and seal this day
		Hugh S. Mason
STATE OF COUNTY O	F SS:	
above-named same of his/h	This day of d <b>Hugh S. Mason</b> , to me per ner own free will for the purp	, 2004, before me personally came the sonally known as the individual who executed the ooses therein set forth.
		Notary Public Commission expires on
of	IN TESTIMONY WHERE, 2004.	EOF, I hereunto set my hand and seal this day
		Xiuren Zhang
STATE OF COUNTY Ō	OF SS:	
above-named same of his/l	This day of d Xiuren Zhang, to me personer own free will for the purp	, 2004, before me personally came the onally known as the individual who executed the poses therein set forth.
		Notary Public

of	IN TESTIMONY WHERE, 2004.	OF, I hereunto set my hand and seal this day
		Charles J. Arntzen
STATE OF COUNTY Ō	OF SS:	
		, 2004, before me personally came the personally known as the individual who executed urposes therein set forth.
		Notary Public Commission expires on

WHEREAS, We, William D.O. Hamilton, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, Koen Hellendoorn, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, Timothy D. Jones, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, Dwayne D. Kirk, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, Hugh S. Mason, a United States citizen, residing at 16833 S. 24<sup>th</sup> Place, Phoenix, Arizona 85048, Xiuren Zhang, a Chinese citizen, residing at 504 E. 63<sup>rd</sup> Street, Apt. 7S, New York, New York 10021, and Charles J. Arntzen, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS for which an application for Letters Patent in the United States, was filed as U.S. Serial No. 10/895,791 on July 21, 2004;

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	IN TESTIMONY WHEREOF, I hereunto set my hand and seal this da, 2004.	
•	William D.O. Hamilton	
Witnessed:	Witnessed:	
NameAddress	Name Address	
Date:	Date:	

R789315.1

of Ectober	STIMONY WHEREOF	F, I hereunto set my hand and seal this <u>lg</u> day
01	, 2004.	18/10 -
	•	Mille
		Koen Hellendoorn
Witnessed:	2/2	- Witnessed: Abenbridge
Name Wendy Address 67 Oxfo	Phillips ord Road	Name <u>Dawn Benbridge</u> Address <u>4 Owen Drive</u>
	Tage CB4 3PH	Royston, Herts. SG85U
Date: <u>Oct 19</u>	2004	Date: 19th October 2004.
of	STIMONY WHEREOF , 2004.	f, I hereunto set my hand and seal this day
		Timothy D. Jones
Witnessed:		Witnessed:
		Name
		Address
Date:		Date:
of	STIMONY WHEREOF , 2004.	, I hereunto set my hand and seal this day
		Dwayne D. Kirk
STATE OF	SS:	
This _ above-named <b>Dwayn</b> same of his/her own t	day of	, 2004, before me personally came the hally known as the individual who executed the stherein set forth.
		Notary Public Commission expires on

of	IN TESTIMONY WHERE , 2004.	EOF, I hereunto set my hand and seal this day
		Hugh S. Mason
STATE OF COUNTY O	SS:	
above-named same of his/h	This day of <b>Hugh S. Mason</b> , to me perser own free will for the purp	, 2004, before me personally came the sonally known as the individual who executed the oses therein set forth.
		Notary Public Commission expires on
of	IN TESTIMONY WHERE, 2004.	EOF, I hereunto set my hand and seal this day
		Xiuren Zhang
STATE OF COUNTY O	SS:	
above-named same of his/h	This day of <b>Xiuren Zhang</b> , to me person er own free will for the purp	, 2004, before me personally came the onally known as the individual who executed the oses therein set forth.
		Notary Public Commission expires on

of	in Testimony whe , 2004.	REOF, I hereunto set my hand and seal this day
	•	
		Charles J. Arntzen
STATE OF		
COUNTY ŌĪ	SS:	
above-named the same of h	Charles J. Arntzen, to m	, 2004, before me personally came the ne personally known as the individual who executed purposes therein set forth.
		Notary Public
		Commission expires on

WHEREAS, We, William D.O. Hamilton, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, Koen Hellendoorn, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, Timothy D. Jones, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, Dwayne D. Kirk, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, Hugh S. Mason, a United States citizen, residing at 16833 S. 24<sup>th</sup> Place, Phoenix, Arizona 85048, Xiuren Zhang, a Chinese citizen, residing at 504 E. 63<sup>rd</sup> Street, Apt. 7S, New York, New York 10021, and Charles J. Arntzen, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS for which an application for Letters Patent in the United States, was filed as U.S. Serial No. 10/895,791 on July 21, 2004;

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of	IN TESTIMONY WHEREOF, I hereunto set my hand and seal this da, 2004.	
	William D.O. Hamilton	
Witnessed:	Witnessed:	
Name	Name	
Address	Address	
Date:	Date:	

	Notary Public Commission expires on
This day of, 200 above-named <b>Dwayne D. Kirk</b> , to me personally same of his/her own free will for the purposes the	04, before me personally came the known as the individual who executed the rein set forth.
STATE OF SS:	
•	Dwayne D. Kirk
IN TESTIMONY WHEREOF, I he of, 2004.	ereunto set my hand and seal this day
Date: 19th october 2004	Date: 1914 OCTOPER 2004
Name MATTHEW BANK ) Address THE HOUTS SARGESTS VARIO	Address 22 (JULIN LEGIENT
Witnessed:	Witnessed:
	Timothy D. Jones
, 200 i.	1 There
IN TESTIMONY WHEREOF, I he of Octobe, 2004.	ereunto set my hand and seal this 19 day
Date:	Date:
Address	Name Address
Witnessed: Name	Witnessed:
	Koen Hellendoorn
·	
of, 2004.	ereunto set my hand and seal this day

of	IN TESTIMONY WHERE, 2004.	OF, I hereunto set my hand and seal this day
		Hugh S. Mason
STATE OF COUNTY OF	SS:	
above-named same of his/h	This day of Hugh S. Mason, to me perser own free will for the purper	, 2004, before me personally came the onally known as the individual who executed the oses therein set forth.
		Notary Public Commission expires on
of	IN TESTIMONY WHERE , 2004.	OF, I hereunto set my hand and seal this day
		Xiuren Zhang
STATE OF COUNTY OF	SS:	
	This day of Xiuren Zhang, to me perso er own free will for the purpo	nally known as the individual who executed the
		Notary Public Commission expires on

of	IN TESTIMONY WHEREC	OF, I hereunto set my hand and seal this day
		Charles J. Arntzen
STATE OF COUNTY O	OF SS:	
		, 2004, before me personally came the ersonally known as the individual who executed irposes therein set forth.
		Notary Public Commission expires on

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	IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day, 2004.		
	William D.O. Hamilton		
Witnessed:	Witnessed:		
Name Address	Name Address		
Date:	Date:		

of, 2004.	CEOF, I hereunto set my hand and seal this day
	Koen Hellendoorn
Witnessed:	Witnessed:
Name Address	Name Address
Date:	Date:
IN TESTIMONY WHEI of, 2004.	REOF, I hereunto set my hand and seal this day  Timothy D. Jones
Witnessed:	Witnessed:
NameAddress	Name Address
Date:	Date:
of November, 2004.	REOF, I hereunto set my hand and seal this
STATE OF Wyola COUNTY OF Koruspass:	
	mbl, 2004, before me personally came the personally known as the individual who executed the
above-named <b>Dwayne D. Kirk</b> , to me pasame of his/her own free will for the pu	personally known as the individual who executed the proses therein set forth.

Notary Public Commission expire

OFFICIAL SEAL

ELIZABETH A. SCOTT

NOTARY PUBLIC - ARIZONA

MARICOPA COUNTY

My Comm. Expires Feb. 21, 2008

R789315.1

of Novembry, 2004.	eal this <u>\$3</u> day
Hugh S. Mason	
STATE OF ARIZONA COUNTY OF MARIOUPA SS:	
This 30 day of November, 2004, before me personally cabove-named Hugh S. Mason, to me personally known as the individual was same of his/her own free will for the purposes therein set forth.	ame the ho executed the
OFFICIAL SEAL NICKES PRINTS	true
GWEN J. STOWE  GWEN J. STOWE  HOTARY PUBLIC-ARIZONA  MARICOPA COUNTY  My Comm. Expires Oct. 31, 2008	n 10-31-04.
IN TESTIMONY WHEREOF, I hereunto set my hand and so of, 2004.	eal this day
Xiuren Zhang	
STATE OF SS:	
This day of, 2004, before me personally cabove-named <b>Xiuren Zhang</b> , to me personally known as the individual who same of his/her own free will for the purposes therein set forth.	ame the executed the
Notary Public Commission expires o	n .

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30 day of November, 2004.

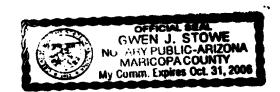
harles J. Arntzen

STATE OF ARIZON ~ COUNTY OF MARICOPA SS:

This 30 day of November, 2004, before me personally came the above-named Charles J. Arntzen, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public

Commission expires on 10-31-06.



WHEREAS, We, William D.O. Hamilton, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, Koen Hellendoorn, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, Timothy D. Jones, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, Dwayne D. Kirk, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, Hugh S. Mason, a United States citizen, residing at 16833 S. 24<sup>th</sup> Place, Phoenix, Arizona 85048, Xiuren Zhang, a Chinese citizen, residing at 504 E. 63<sup>rd</sup> Street, Apt. 7S, New York, New York 10021, and Charles J. Arntzen, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS for which an application for Letters Patent in the United States, was filed as U.S. Serial No. 10/895,791 on July 21, 2004;

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of	IN TESTIMONY WHEREOF, I hereunto set my hand and seal this da, 2004.		
	William D.O. Hamilton		
Witnessed:	Witnessed:		
NameAddress	Name Address		
Date:	Date:		

of, 2004.	, I nereunto set my hand and seal this day
	Koen Hellendoorn
Witnessed:	Witnessed:
NameAddress	NameAddress
Date:	Date:
IN TESTIMONY WHEREOF of, 2004.	Timothy D. Jones
Witnessed:	Witnessed:
Name	NameAddress
Date:	Date:
IN TESTIMONY WHEREOR of, 2004.	F, I hereunto set my hand and seal this day
	Dwayne D. Kirk
STATE OF SS:	
This day of above-named <b>Dwayne D</b> . Kirk, to me perso same of his/her own free will for the purpose	, 2004, before me personally came the nally known as the individual who executed the es therein set forth.
	Notary Public Commission expires on

of,	ONY WHEREOF, I hereunto set my hand and seal this day 2004.
	Hugh S. Mason
STATE OF	SS:
This <u>da</u> above-named <b>Hugh S. Mas</b> same of his/her own free wi	y of, 2004, before me personally came the on, to me personally known as the individual who executed the ll for the purposes therein set forth.
	Notary Public Commission expires on
of <u>December</u> ,	ONY WHEREOF, I hereunto set my hand and seal this Z day 2004.  Xiuren Zhang
STATE OF New Jork	Ss:
above-named Xiuren Zhan;	y of <u>Decen ber</u> 2004, before me personally came the g, to me personally known as the individual who executed the ll for the purposes therein set forth.
	Notary Public Commission expires on 08/3/2006
	MARGUERITE T. NULTY Notary Public, State of New York No. 41-4638775 Qualified in Nassau County Commission Expires August 31, 2006

of	IN TESTIMONY WHERE , 2004.	OF, I hereunto set my hand and seal this of	lay
		Charles J. Arntzen	
STATE OF COUNTY O	F SS:		
	This day of	, 2004, before me personally came the personally known as the individual who execute urposes therein set forth.	:d
		Notary Public	
		Commission expires on	

**RECORDED: 12/20/2004**