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O:DAVID L. PROVENCE COMPANY:111 3RD AVENUE SOUTH

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		PATENT ASSIGNMEN	I T
lectronic Version tylesheet Version	1 V 1. 1	05/11/2011 02/06/20/118 501440223	COPY
SUBMISSION TYPE	CORRECTIVI	ASSIGNMENT - to correct Execute to 02/07/2011) as previously re	oution Date of Inventor Digvir S. Jayas corded on 02/16/2011 at Reel/Frame: 025817/060
NATURE OF CONV		ASSIGNMENT	
CONVEYING PART	Y PATA	· · · · · · · · · · · · · · · · · · ·	
	-	Nama	Execution Date
SURESHRAJA NE	ETHIRAJAN		02/03/2011
MICHAEL S, FREL	IND		02/04/2011
DIGVIR 9. JAYAS			02/04/2011
RECEIVING PART)	/ DATA		Should be 02/07/20
Name:	UNIVERSITY	F MANITOBA	
Street Address:	631 DRAKE CE	NTRE	
Internal Address:	191 FREEDMA	V CRESCENT	
City:	WINNIPEG, MANITOBA		
State/Country:	CANADA		
Postal Gode:	RST 5VR	4	
PROPERTY NUMB	ERS Total: 1		
Property	Туре	Num	ber
Application Numbe			
CORRESPONDENC	CE DATA		
Fax Number:	(612)305-1	228	
Carrespondence wi	li be sent via US Ma	all when the fax attempt is unsuccess	sful.
Phone:	61230510		
Emeil: Correspondent Norr	·	moo.wolqigm	
Correspondent Norr Address Line 1:		enye South	
Address Line 2:	Suite 350		
Address Line 4:	Minneapol	s. MINNESOTA 55401	
ATTORNEY DOCKE	T NUMBER:	352,00080101	
VAME OF SUBMIT	TER:	David L. Provence	
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PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 02/16/2011 501440223

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SURESHRAJA NEETHIRAJAN	02/03/2011
MICHAEL S. FREUND	02/04/2011
DIGVIR S. JAYAS	02/04/2011

RECEIVING PARTY DATA

Name:	UNIVERSITY OF MANITOBA
Street Address:	631 DRAKE CENTRE
Internal Address:	191 FREEDMAN CRESCENT
City:	WINNIPEG, MANITOBA
State/Country:	CANADA
Postal Gode:	R3T 5VR

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number.	12873835	

CORRESPONDENCE DATA

(812)305-1228 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

0123051005

Email:

struehart@mrgiplaw.com

Correspondent Name:

David L. Provence

Address Une 1:

111 3rd Avenue South

Address Line 2:

Suite 350

Address Line 4:

Minneapolis, MINNESOTA 55401

352,00080101 ATTORNEY DOCKET NUMBER:

NAME OF SUBMITTER:

David L. Provence

Total Atlachments: 6

PATENT REEL: 026406 FRAME: 0653 06/07/2011 03:15 FAX 6123051228

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O:DAVID L. PROVENCE COMPANY: 111 3RD AVENUE SOUTH

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Docket No: 352,00080101

ASSIGNMENT

Whereas We. SURESHRAJA NEETHORAJAN, MICEAEL S. FREUND, AND DIGVIR J. JAYAS, with residences and citizenships as indicated below; have made an invention in

POLY(ANILINE BORONIC ACID) POLYMERS AND METHODS OF USE

Filing Date: September 1, 2010

Serial No.: 12/873,835

CARRON DIOXIDE DETECTOR AND METHODS OF USE

Filing Data: September 1, 2009 .

Serial No.: 61/238,914

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto University of Manitoba ("Company"), a corporation of Manitoba, Canada, having its principal office at 631 Drake Centre, 191 Freedman Crescent, Winnipeg, Manitoba R3T 5V4, Canada, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries:

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to University of Manitoba as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Name: Sureshraja Neethirajan Suite 103 - 513 Brotton Woods Drive Address: Knoxville, TN 37919 CANADA Citizenship:

PATENT

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For: POLY(ANILINE BORONIC ACID) POLYMERS A	AND METHODS OF USE
	· · · · · · · · · · · · · · · · · · ·
Name: Michael S. Freund	Dete
Address: 329 Chrpathia Road Winnipeg, MB, R3N 174, Canada	
Citizenship: CANADA	
Witness 1	Date
<u></u>	
Witness 2	Date
•	
•	
Name: Digvir S. Jayas	Date
Address: 49 Westwater Drive Winnipeg, MB, R3X 2G2, Canada	
Citizenship: CANADA	
Wimess 1	Date
	·
Witness 2	Date

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ASSIGNMENT

Docket No: 352,00080101

Whereas We, Sureshraja Neethirajan, Michael S. Freund, and Digvir J. Jayas, with residences and citizenships as indicated below; have made an invention in

POLY(ANILINE BORONIC ACID) POLYMERS AND METHODS OF USE

Serial No.: 12/873,835 Filing Date: September 1, 2010

CARBON DIOXIDE DETECTOR AND METHODS OF USE

Scrial No.: 61/238,914 Filing Date: September 1, 2009

and executed an application for Letters Patent of the United States of America based thereon;

5/23/2011 8:20:19 AM

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto University of Manitoba ("Company"), a corporation of Manitoba, Canada, baving its principal office at 631 Drake Centre, 191 Freedman Crescent, Winnipeg, Manitoba R3T 5V4, Canada, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made igingly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in funcion countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, recammination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and onjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other sets as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to University of Manitoba as the assignce of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Namo: Address:	Suresharja Noethirajan Suita 103 - 513 Bretton Woods Drive Knozville, TN 37919	Date
Citizenship;	CANADA	
Witness 1	 	Date
	•	
Witness 2	t	Date

PATENT REEL: 026406 FRAME: 0657 06/07/2011 03:17 FAX 6123051228 MUETING RAASCH GEBHARDT Ø 009 5/23/2011 8:20:19 AM PAGE 9/018 Fax Server USPTO

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Assignment Serial No. 12/873,85\$ Filed: September 1, 2010 For: POLY(ANILINE BORONIC ACID) POLYMERS A	Pogs 2 o
Name: Michael S. Freund Address: 329 Carpathia Road Winnipeg, MB. R3N 1T4, Canada Cifizenship: CANADA	T=6 4, 2011
Witness 2 Witness 2	FEB 4, 2011 Date -706 4, 2011 Date
Name: Digvir S. Jayas Address: 49 Westwater Drive Winnipag, MB, R3X 2G2, Canada Citiz≒nship: CANADA	Date
Wimess I	Date

Date

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MUETING RAASCH GEBHARDT

M 014

Docket No: 352.00080101

ASSIGNMENT

Whereas We, SURESHRAIA NEETHIRAJAN, MICHAEL S. FREUND, AND DIGVIR J. JAYAS, with residences and citizenships as indicated below; have made an invention in

POLY(ANTLINE BORONIC ACID) POLYMERS AND METHODS OF USE

Piling Date: September 1, 2010 Serial No.: 12/873,835

CARBON DIOXIDE DETECTOR AND METHODS OF USE

Filing Date: September 1, 2009 Serial No.: 61/238,914

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto University of Manitoba ("Company"), a corporation of Manitoba, Canada, having its principal office at 631 Drake Centre, 191 Freedman Crescent, Winnipeg, Manitoba R3T 5V4, Canada, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are emittled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to University of Manitoba as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereinto signed our names on the days and years set forth below.

Name: Address:	Sureshraja Neethirajan Suite 103 - 513 Bretton Woods Drive Knoxville, TN 37919	Date	
Citizenship:	CANADÁ		
Witness 1		Date	-
Witness 2		Date	

PATENT REEL: 026406 FRAME: 0659 06/07/2011 03:17 FAX 6123051228 MUETING RAASCH GEBHARDT Ø 011

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ame: Michael S. Freund ddress: 329 Carpathia Road Winnipeg, MB, R3N 1T4, Canada dtizenship: CANADA	Date
itness 1	Date
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lame: Digvir S. Jayes ddress: 49 Westwater Drive Winnipeg, MB, R3X 2G2, Canada itizenship: CANADA	Feb 07/2011