505304661 01/30/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARC-ANDRE D'AOUST	05/20/2010
MANON COUTURE	05/21/2010
FREDERIC ORS	05/25/2010
SONIA TREPANIER	05/25/2010
PIERRE-OLIVIER LAVOIE	05/20/2010
MICHELE DARGIS	05/20/2010
LOUIS-PHILIPPE VEZINA	05/25/2010
NATHALIE LANDRY	05/20/2010

RECEIVING PARTY DATA

Name:	MEDICAGO INC.
Street Address:	1020 ROUTE DE L'EGLISE, SUITE 600
City:	QUEBEC
State/Country:	CANADA
Postal Code:	G1V 3V9

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15256119
Application Number:	16219306

CORRESPONDENCE DATA

Fax Number: (202)857-6395

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: (202) 857-6000

Email: patentdocket@arentfox.com

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Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	026806.00051/026806.00053
NAME OF SUBMITTER:	ALEXANDER H. SPIEGLER

PATENT REEL: 048193 FRAME: 0469 505304661

SIGNATURE: /Alexander H. Spiegler/	
DATE SIGNED:	01/30/2019
Total Attachments: 6	
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PATENT REEL: 048193 FRAME: 0470

ASSIGNMENT OF APPLICATION

WHEREAS, we,

MARC-ANDRE D'AOUST, whose full post office address is: 3925 Louise-Fiset, Quebec, Quebec, G1X 4N4, Canada

MANON COUTURE, whose full post office address is: 4765 rue de la Sarcelle, St-Augustin-de-Desmaures, Quebec, G3A 2A5, Canada

FREDERIC ORS, whose full post office address is: 3940 rue Mathieu d'Amour, Quebec, Quebec, G1Y 2J8, Canada

SONIA TREPANIER, whose full post office address is: 314 de la Seine, St-Nicholas, Quebec, G7A 2P8, Canada

PIERRE-OLIVIER LAVOIE, whose full post office address is: 621 Franklin, Quebec, Quebec, G1N 2L7, Canada

MICHELE DARGIS, whose full post office address is: 6358 St-Jacques, Quebec, Quebec, G2C 1M4, Canada

LOUIS-PHILIPPE VEZINA, whose full post office address is: 206 route 138, Neuville, Quebec, G0A 2R0, Canada and

NATHALIE LANDRY, whose full post office address is: 1877, Allee Cavaliere, St-Romuald, Quebec, G6W 0C1, Canada

(hereinafter called "ASSIGNORS") have invented certain new and useful improvements in the invention entitled RECOMBINANT INFLUENZA VIRUS-LIKE PARTICLES (VLPS) PRODUCED IN TRANSGENIC PLANTS EXPRESSING HEMAGGLUTININ, as fully described and claimed in international application no. PCT/CA2009/000032 filed January 12, 2009 claiming priority to: International application PCT/CA2008/001281 filed July 11, 2008 entitled Influenza Virus-Like Particles (VLPS) Comprising Hemagglutinin Produced within a Plant (Gowling Lafleur Henderson LLP Reference No. V81270WO),

Provisional application No. 61/022,775 filed January 22, 2008 entitled INFLUENZA VIRUS-LIKE PARTICLES COMPRISING HEMAGGLUTININ (Gowling Lafleur Henderson LLP Reference No. V81270US3), and

Canadian application No. 2,615,372 filed January 21, 2008 entitled Influenza Virus-Like Particles (VLPS) Comprising Hemagglutinin (Gowling Lafleur Henderson LLP Reference No. V81270CA) for which applications for Letters Patents have been made.

PATENT REEL: 0420193 FRANCE: 047218 V81270W01

and

WHEREAS, **MEDICAGOINC.**, having a place of business at **1020 Route de L'Eglise**, **Suite 600**, **Quebec**, **Quebec**, **G1V 3V9**, **Canada**, hereinafter called ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patents that may be granted therefor in and to all Conventions and Treaty rights of all kinds, in all countries throughout the world.

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, [we/I], by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right, title and interest in and to the said invention in and to all Conventions and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, non-provisional or substitute thereof, and any reissue, re-examination or extension of said Letters Patent.

We hereby authorize and request the Patent Office Officials in United States, Canada and throughout the world to issue any and all of said Letters Patents, when granted, to said ASSIGNEE as the assignee of our entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patents may be granted, as fully and entirely as the same would have been held by us had this Assignment and sale not been made.

Further, we agree that we will communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all papers relating to a continuation, division, continuation-in-part, extension, non-provisional or substitute thereof, and any reissue, re-examination or extension of said Letters Patent, execute all necessary assignment papers to cause any and all of said Letters Patents to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in United States, Canada and throughout the world.

PATENT REEL: 0421922 FRANCE: 04729

V81270WO1

The undersigned hereby authorizes the firm of GOWLING LAFLEUR HENDERSON LLP to correct errors in this Assignment or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in United States, Canada and throughout the world.

In witness whereof the Assignor MARC-ANDRE D'AOUST has executed this Assignment
this 20th day of May , 2010.
MARC-ANDRE D'AOUST
WITNESS:
On this, 2010, before me personally
appeared the above named MARC-ANDRE D'AOUST, to me known and known by me to be the
person described in and who executed the foregoing instrument, and acknowledged the same to
appeared the above named MARC-ANDRE D'AOUST, to me known and known by me to be the person described in and who executed the foregoing instrument, and acknowledged the same to be his own free act and declarate and
In witness whereof the Assignor MANON COUTURE has executed this Assignment this day of MAY, 2010. MANON COUTURE
WITNESS:
On this, 2010, before me personally appeared the above named MANON COUTURE, to me known and known by me to be the
person described in and who executed the foregoing instrument, and acknowledged the same to
be his own free act and deed BEAL'ASSER BOUNDAME BOUN
In witness whereof the Assignor FREDERIC ORS has executed this Assignment this
day of

PATIENIT REEL: 0:24992 FRAME: 0:4730

C DONS
FREDERIC ORS
WITNESS:
On this, 2010, before me personally
appeared the above named FREDERIC ORS, to me known and known by me to be the person
described in and who executed the foregoing instrument, and acknowledged the same to be his
described in and who executed the foregoing instrument, and acknowledged the same to be his own free act and deed. Own free a
In witness whereof the Assignor SONIA TREPANIER has executed this Assignment this
In witness whereof the Assignor SONIA TREPANIER has executed this Assignment this day of, 2010 .
SONIA TREPANIER
WITNESS:
On this, 2010, before me personally
appeared the above named SONIA TREPANTER, to me known and known by me to be the
person described in and who executed the foregoing instrument, and acknowledged the same to
be her own free act and deed at AL'ASSESSION A Notary Public in and for Quebec
In witness whereof the Assignor PIERRE-OLIVIER LAVOIE has executed this
Assignment this 20th day of wey , 2010.
PIERRE-OLIVIER LAVOIE
WITNESS:
On this <u>Loth</u> day of <u>Hay</u> , 2010, before me personally
appeared the above named PIERRE-OLIVIER LAVOIE, to me known and known by me to be

PATEINT REEL: 044922 FRANCE: 04934

V81270WO1

the person described in and who executed the foregoing instrument, and acknowledged the
same to be his own free act and deed. A Notary Public in and for Quebec
In witness whereof the Assignor MICHELE DARGIS has executed this Assignment this
2016 day of, 2010 .
MICHELE DARGIS
WITNESS:
On this, 2010, before me personally
appeared the above named MICHELE DARGIS, to me known and known by me to be the
person described in and who executed the foregoing instrument, and acknowledged the same to
be his own free act and deed REAL'ASSESSION A Notary Public in and for Quebec Outline Supplied on LOUIS-PHILIPPE VEZINA has executed this
Assignment this 25 day of, 2010 . LOUIS-PHILIPPE VEZINA
WITNESS:
On this, 2010, before me personally appeared the above named LOUIS-PHILIPPE VEZINA, to me known and known by me to be the person described in and who executed the foregoing instrument, and acknowledged the
same to be his own free act and deed. A Notary Public in and for Quebec Tous les districts publicaires du Quebec

V81270WO1

In witness whereof the Assignor N	ATHALIE LANDRY has executed this Assignment this
day of May	, 2010 .
	NATHALIÉ LANDRY
WITNESS:	
On thisday of	May, 2010, before me personally
appeared the above named NATHALIE	LANDRY, to me known and known by me to be the
person described in and who executed the	e foregoing instrument, and acknowledged the same to
be her own free act and deed.	
GUYLAINE POIRIER 185677 Tous les districts publicaires du Québec	A Notary Public in and for Quebec

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