PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6865421

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INNOTECH ALBERTA INC.	02/15/2017

RECEIVING PARTY DATA

Name:	CANADIAN NATIONAL RAILWAY COMPANY
Street Address:	935 DE LA GAUCHETIERE STREET WEST
City:	MONTREAL, QC
State/Country:	CANADA
Postal Code:	H3B 2M9

PROPERTY NUMBERS Total: 10

Property Type	Number
Application Number:	15435948
Application Number:	15436244
Application Number:	15436292
Application Number:	16133123
Application Number:	16985144
Application Number:	62304589
Application Number:	62323240
Application Number:	62409200
Application Number:	62411888
Application Number:	62449310

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: (617) 542-5070 Email: apsi@fr.com SEAN M. DEAN Correspondent Name:

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER: 31252 0009001

PAIENI **REEL: 057185 FRAME: 0269** 506818600

NAME OF SUBMITTER:	SEAN M. DEAN
SIGNATURE:	/Sean M Dean/
DATE SIGNED:	08/16/2021

Total Attachments: 3

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PATENT REEL: 057185 FRAME: 0270

CONFIRMATORY ASSIGNMENT

WHEREAS INNOTECH ALBERTA INC., a corporation organized and existing under the laws of Alberta, Canada, and having a place of business at 250 Karl Clark Road, Edmonton, Alberta T6N 1E4, Canada (hereinafter referred to as the "Assignor") is the owner of the creations, works, inventions, concepts, improvements, discoveries and technical developments as described or claimed in the patent, patent application, copyright, copyright application, industrial design, industrial design application, or trade secret, in furtherance to a Project Services Agreement dated March 11, 2015, as amended, and an Assignment and Assumption Agreement dated October 31, 2016, as amended, (collectively, the "Agreements") that was entered into by the parties to this Assignment (hereinafter referred to as the "Assigned Intellectual Property");

WHEREAS CANADIAN NATIONAL RAILWAY COMPANY, a Canadian corporation having a place of business at 5331, 5359 27 Street SE, Calgary, Alberta, T2C 1M7 Canada (hereinafter referred to as the "Assignee") is desirous of confirming acquisition of the entire right, title, and interest in and to (a) the works, creations, developments and inventions as described or claimed in the Assigned Intellectual Property, (b) any and all patent applications filed, or patents issuing, based on the Assigned Intellectual Property, including, without limitation, the patent and patent applications listed in Annex A (collectively, hereinafter referred to as the "Patent Assets"), (c) any and all continuations, continuations-in-part, divisionals, re-issuances, substitutions, extensions, reexaminations, and renewals thereof, (d) any and all substitutes for Letters Patent for the inventions as described and claimed in the Patent Assets and any of the foregoing, (e) any and all priority rights derived from the Assigned Intellectual Property or Patent Assets, and (f) any and all rights, privileges and proceeds under the Assigned Intellectual Property, including, without limitation, any claim against third parties for past, present or future infringement or misappropriation of the Assigned Intellectual Property, and any and all patents issuing based on the Patent Assets;

NOW, THEREFORE, in consideration of the sum of Ten Canadian Dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignor agrees to sell, assign and transfer, and does hereby confirm having sold, assigned and transferred to the Assignce, its successors and assigns, its entire right, title, and interest in and to (a) the works, developments, creations and inventions as described or claimed in the Assigned Intellectual Property, (b) any and all patent applications filed, or patents issuing, based on the Assigned Intellectual Property, including, without limitation, the Patent Assets, (c) any and all continuations-in-part, divisionals, re-issuances, substitutions, continuations, reexaminations, and renewals thereof, (d) any and all substitutes for Letters Patent for the inventions as described and claimed in the Patent Assets and any of the foregoing, (e) any and all priority rights derived from the Assigned Intellectual Property or Patent Assets, and (f) any and all rights, privileges and proceeds under the Assigned Intellectual Property, including, without limitation, any claim against third parties for past, present or future infringement or misappropriation of the Assigned Intellectual Property, and any and all patents issuing based on the Patent Assets; the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had no sale, assignment or transfer been made. Notwithstanding the foregoing, the internal use rights granted by the Assignce to the Assignor, pursuant to Section 11 (c) of the Agreement, shall continue to be in full force and effect;

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AND the Assignor agrees to execute and will execute, and have its employees, researchers and inventors execute, any further conveyance, assignments, documents, forms, notice, release, formality or instrument as may be required to assign, transfer and effectuate the rights to be conveyed under this Assignment, and to execute and deliver, or cause to be executed and delivered (including, without limitation, obtaining any inventor assignments or any other such necessary assignments to the Assignor from any of its employees or consultants), to the Assignee as shall be necessary to vest in the Assignee all right, title and interest in, to and under the Assigned Intellectual Property, free and clear of any liens or encumbrances;

AND the Assignor hereby authorizes and requests any official, whose duty it is to issue patents, to issue each and every patent to be granted for the inventions, and each and every reissue, substitution, extension or prolongation of such patents, to the Assignee, its successors and assigns;

AND the Assignor hereby authorizes the firm of Smart & Biggar whose full post office address is 1000 Rue de la Gauchetière West, Suite 3300, Montréal, QC H3B 4W5 to correct clerical errors in this Assignment, or to insert any further identification or other information necessary or desirable to make the Assignment suitable for recordal at the Canadian Intellectual Property Office, United States Patent and Trademark Office, and any other such other intellectual property offices worldwide.

This Assignment shall be governed by, and be construed according to the laws in force in the Province of Alberta and the Canadian federal laws applicable therein.

THIS Assignment is made effective as of March 11, 2015.

IN WITNESS WHEREOF, the Assignor has executed this Assignment, at Edmonton, Alberta this 15th day of February 2017.

INNOTECH ALBERTA INC. BY:

NAME ROSS CHOW

TITLE MANAGING DIRECTOR

TITLE FUNCTIONAL MANAGER

DECLARATION OF WITNESS

I, Wendy Holgate, whose full postal address is 250 Karl Clark Road, Edmonton, AB ToN 1E4 hereby declare that I was personally present and did see InnoTech Alberta Inc.'s representative, who is personally known to me to be the person named in this Assignment, sign and execute same.

Declared at Edmonton, this 15th day of February 2017. Witness signsture

ACKNOWLEDGED AND ACCEPTED AT Montral, Quelle this last day of

BY:

CANADIAN NATIONAL RAILWAY COMPANY

NAME

Janes Drysdale

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TITLE

INTERVENORS:

The undersigned employees and researchers of Assignor and, formerly, Alberta Innovates - Technology Futures, having read this Confirmatory Assignment, hereby acknowledge their agreement to the confirmatory sale, assignment and transfer set out herein.

Ву: ///

Name: Kaşra Nikooyeh

Title: Chemical Engineer, Surface Separation

Date: February 15, 2017

Name: Amanda Prefontaine

Title: Upstream Laboratory Supervisor

Date: February 15, 2017

Name: John Bleile

Title: Senior Research Technologist

Date: February 15, 2017

PATENT REEL: 057185 FRAME: 0273

RECORDED: 08/16/2021