504024665 09/27/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4071324

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PETER JOHN BARTSCH	08/30/2016
GRENVIL MARQUIS DUNN	08/31/2016
STUART SAICH	09/11/2016

RECEIVING PARTY DATA

Name:	ALCHEMIDES PTY LTD
Street Address:	19 CLAREMONT STREET
City:	MILE END, SOUTH AUSTRALIA
State/Country:	AUSTRALIA
Postal Code:	5031
Name:	HYDROMET (PTY) LTD
Street Address:	20 WOMBLE STREET
City:	ROWHILL, SPRINGS
State/Country:	SOUTH AFRICA
Postal Code:	1564
Name:	PROMET101 CONSULTING PTY LTD
Street Address:	PO BOX 3305
City:	HELENSVALE, QUEENSLAND
State/Country:	AUSTRALIA
Postal Code:	4212

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15129687

CORRESPONDENCE DATA

Fax Number: (612)455-3801

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: 612-455-3800

Email: pkerkhove@hsml.com

Correspondent Name: HAMRE, SCHUMANN, MUELLER & LARSON, P.C.

Address Line 1: 45 SOUTH SEVENTH STREET

PATENT

504024665 REEL: 039869 FRAME: 0415

Address Line 2: SUI	ΤΕ 2700
Address Line 4: MIN	NEAPOLIS, MINNESOTA 55402-1683
ATTORNEY DOCKET NUMBER:	20576.0048USWO
NAME OF SUBMITTER:	JAMES A. LARSON
SIGNATURE:	/James A. Larson/
DATE SIGNED:	09/27/2016
Total Attachments: 6	
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PATENT REEL: 039869 FRAME: 0416 Docket No. 20576.0048USWO

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Peter John BARTSCH having an address of 19 Claremont Street, Mile End, South Australia 5031, Australia
- 2. Grenvil Marquis DUNN having an address of 1806/8 Adelaide Terrace, East Perth, Western Australia 6004, Australia
- 3. Stuart SAICH having an address of Nueva Providencia 2710, Dpto 307, Providencia, Santiago 2710, Chile

(hereinafter called	1 "THE U	INDERSIG	NED") l	have ma	de an in	vention a	ınd hav	ve exè	cuted
an application for	Letters P	atent of the	United	States fo	or this in	vention v	vhich v	vas file	ed on
,	entitled	PURIFIC	CATION	OF 0	COPPER	CONC	CENTE	RATE	BY
REMOVAL O	F ARS	ENIC A	ND A	NTIMO	NY V	VITH (CONC	OMIT	ANT
REGENERATIO:	N AND	RECYCLI	E OF L	JXIVIA	NT, an	d which	has	been į	given
application serial	number _	;							

and

WHEREAS,

ALCHEMIDES PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at 19 Claremont Street, Mile End, South Australia 5031, Australia

and

HYDROMET (PTY) LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of South Africa and having an office and place of business at 20 Womble Street, Rowhill, Springs 1564, South Africa

and

PROMET101 CONSULTING PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at PO Box 3305, Helensvale, Queensland 4212, Australia

wish to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby

PATENT REEL: 039869 FRAME: 0417 acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

	30/08/2016
Peter John BARTSCH	Date '
Grenvil Marquis DUNN	Date
Stuart SAICH	Date

Docket No. 20576.0048USWO

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Peter John BARTSCH having an address of 19 Claremont Street, Mile End, South Australia 5031, Australia
- 2. Grenvil Marquis DUNN having an address of 1806/8 Adelaide Terrace, East Perth, Western Australia 6004, Australia
- 3. Stuart SAICH having an address of Nueva Providencia 2710, Dpto 307, Providencia, Santiago 2710, Chile

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on _______, entitled PURIFICATION OF COPPER CONCENTRATE BY REMOVAL OF ARSENIC AND ANTIMONY WITH CONCOMITANT REGENERATION AND RECYCLE OF LIXIVIANT, and which has been given application serial number ______;

and

WHEREAS.

ALCHEMIDES PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at 19 Claremont Street, Mile End, South Australia 5031, Australia

and

HYDROMET (PTY) LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of South Africa and having an office and place of business at 20 Womble Street, Rowhill, Springs 1564, South Africa

and

PROMET101 CONSULTING PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at PO Box 3305, Helensvale, Queensland 4212, Australia

wish to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby

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acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Peter John BARTSCH	Date
Jann	31st August 201
Grenvil Marquis DUNN	Date
-	<u> </u>
Stuart SAICH	Date

Docket No. 20576,0048USWO

ASSIGNMENT OF PATENT APPLICATION

WHEREAS.

- 1. Peter John BARTSCH having an address of 19 Claremont Street, Mile End, South Australia 5031, Australia
- Grenvil Marquis DUNN having an address of 1806/8 Adelaide Terrace, East Perth. Western Australia 6004, Australia
- 3. Stuart SAICH having an address of Nueva Providencia 2710, Dpto 307. Providencia, Santiago 2710, Chile

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Paterit of the United States for this invention which was filed on ______ entitled PURIFICATION OF COPPER CONCENTRATE BY REMOVAL OF ARSENIC AND ANTIMONY WITH CONCOMITANT REGENERATION AND RECYCLE OF LIXIVIANT, and which has been given application serial number ______;

and

WHEREAS,

ALCHEMIDES PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at 19 Claremont Street, Mile End, South Australia 5031, Australia

and

HYDROMET (PTY) LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of South Africa and having an office and place of business at 20 Womble Street, Rowhill, Springs 1364, South Africa

and

PROMET101 CONSULTING PTY LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Australia and having an office and place of business at PO Box 3305, Helensvale, Queensland 4212, Australia

wish to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor,

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby



PATENT REEL: 039869 FRAME: 0421 acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Peter John BARTSCH	Date
Grenvil Marquis DUMN Swart SAICH	Date

PATENT REEL: 039869 FRAME: 0422

RECORDED: 09/27/2016