

TRADEMARK ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
LanzaTech New Zealand Limited		09/14/2012	COMPANY: NEW ZEALAND
LanzaTech, Inc.		09/14/2012	CORPORATION: DELAWARE
Lanzatech Freedom Pines Biorefinery LLC		09/14/2012	LIMITED LIABILITY COMPANY: DELAWARE
LanzaTech Hong Kong Limited		09/14/2012	COMPANY: HONG KONG
LanzaTech Private Limited		09/14/2012	COMPANY: INDIA

**RECEIVING PARTY DATA**

Name:	Venture Lending & Leasing VI, Inc.
Street Address:	104 La Mesa Drive, Suite 102
City:	Portola Valley
State/Country:	CALIFORNIA
Postal Code:	94028
Entity Type:	CORPORATION: MARYLAND

**PROPERTY NUMBERS Total: 10**

Property Type	Number	Word Mark
Serial Number:	77659671	LANZATECH
Serial Number:	77659675	LANZATECH
Serial Number:	77659680	LANZATECH
Serial Number:	77659686	LANZATECH
Serial Number:	85227015	LANZATECH
Serial Number:	85227036	LANZATECH
Serial Number:	85227060	
Serial Number:	85563695	FREEDOM PINES
Serial Number:	85594314	FREEDOM PINES BIOREFINERY
Serial Number:	85594338	

OP \$265.00 77659671

**CORRESPONDENCE DATA**

Fax Number: 4157774961  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
Phone: 415 981 1400  
Email: gkiviat@grmslaw.com  
Correspondent Name: Jeffrey T. Klugman  
Address Line 1: Four Embarcadero Center, Suite 4000  
Address Line 4: San Francisco, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	47558/0188 T
NAME OF SUBMITTER:	Jeffrey T. Klugman
Signature:	/Jeffrey T. Klugman/
Date:	09/19/2012

Total Attachments: 31  
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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "Agreement") is made as of September 14, 2012, by and among LANZATECH NEW ZEALAND LIMITED, LANZATECH, INC., LANZATECH FREEDOM PINES BIOREFINERY LLC, LANZATECH HONG KONG LIMITED and LANZATECH PRIVATE LIMITED (each a "Grantor" and together "Grantors"), and VENTURE LENDING & LEASING VI, INC., a Maryland corporation ("Secured Party").

### RECITALS

A. Pursuant to that certain Loan and Security Agreement of even date herewith among Grantors, as co-borrowers, and Secured Party, as lender (as amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), Secured Party has agreed to make certain advances of money and to extend certain financial accommodations to Grantors (the "Loans") in the amounts and manner set forth in the Loan Agreement. All capitalized terms used herein without definition shall have the meanings ascribed to them in the Loan Agreement.

B. Secured Party is willing to make the Loans to Grantors, but only upon the condition, among others, that each Grantor shall grant to Secured Party a security interest in substantially all of such Grantor's personal property whether presently existing or hereafter acquired. To that end, Grantors have executed in favor of Secured Party the Loan Agreement granting a security interest in all Collateral, and are executing this Agreement with respect to certain items of Intellectual Property, in particular.

NOW, THEREFORE, THE PARTIES HERETO AGREE AS FOLLOWS:

1. Grant of Security Interest. As collateral security for the prompt and complete payment and performance of all of Grantors' present or future Obligations, each Grantor hereby grants a security interest and mortgage to Secured Party, as security, in and to such Grantor's entire right, title and interest in, to and under the following Intellectual Property, now owned or hereafter acquired by such Grantor or in which such Grantor now holds or hereafter acquires any interest (all of which shall collectively be called the "Collateral" for purposes of this Agreement):

(a) Any and all copyrights, whether registered or unregistered, held pursuant to the laws of the United States, any State thereof or of any other country; all registrations, applications and recordings in the United States Copyright Office or in any similar office or agency of the United States, and State thereof or any other country; all continuations, renewals, or extensions thereof; and any registrations to be issued under any pending applications, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) All letters patent of, or rights corresponding thereto in, the United States or any other country, all registrations and recordings thereof, and all applications for letters patent of, or rights corresponding thereto in, the United States or any other country, including, without limitation, registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country; all reissues, continuations, continuations-in-part or extensions thereof; all petty patents, divisionals, and patents of addition; and all patents to be issued under any such applications, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(c) All trademarks, trade names, corporate names, business names, trade styles, service marks, logos, other source or business identifiers, prints and labels on which any of the foregoing have appeared or appear, designs and general intangibles of like nature, now existing or hereafter adopted or acquired, all registrations

and recordings thereof, and any applications in connection therewith, including, without limitation, registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country or any political subdivision thereof, and reissues, extensions or renewals thereof, and the entire goodwill of the business of such Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(d) Any and all claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(e) All licenses or other rights to use any of the Copyrights, Patents or Trademarks, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(f) All amendments, renewals and extensions of any of the Copyrights, Trademarks or Patents; and

(g) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

Notwithstanding the foregoing the term "Collateral" shall not include: (a) "intent-to-use" trademarks at all times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, but only to the extent the granting of a security interest in such "intent to use" trademarks would be contrary to applicable law or (b) any contract, instrument or chattel paper in which a Grantor has any right, title or interest if and to the extent such contract, instrument or chattel paper includes a provision containing a restriction on assignment such that the creation of a security interest in the right, title or interest of such Grantor therein would be prohibited and would, in and of itself, cause or result in a default thereunder enabling another person party to such contract, instrument or chattel paper to enforce any remedy with respect thereto; provided, however, that the foregoing exclusion shall not apply if (i) such prohibition has been waived or such other person has otherwise consented to the creation hereunder of a security interest in such contract, instrument or chattel paper, or (ii) such prohibition would be rendered ineffective pursuant to Sections 9-407(a) or 9-408(a) of the UCC, as applicable and as then in effect in any relevant jurisdiction, or any other applicable law (including the Bankruptcy Code or principles of equity); provided further that immediately upon the ineffectiveness, lapse or termination of any such provision, the term "Collateral" shall include, and such Grantor shall be deemed to have granted a security interest in, all its rights, title and interests in and to such contract, instrument or chattel paper as if such provision had never been in effect; and provided further that the foregoing exclusion shall in no way be construed so as to limit, impair or otherwise affect Secured Party's unconditional continuing security interest in and to all rights, title and interests of such Grantor in or to any payment obligations or other rights to receive monies due or to become due under any such contract, instrument or chattel paper and in any such monies and other proceeds of such contract, instrument or chattel paper.

2. Covenants and Warranties. Each Grantor represents, warrants, covenants and agrees as follows:

(a) Such Grantor has rights (as defined in the UCC) in the Collateral, except for Permitted Liens;

(b) During the term of this Agreement, such Grantor will not transfer or otherwise encumber any interest in the Collateral, except for Permitted Liens and except for transfers otherwise permitted under the Loan Agreement;

(c) **Grantors shall deliver to Secured Party within thirty (30) days of the last day of each fiscal quarter, a report signed by Grantors, in form reasonably acceptable to Secured Party, listing (i)**

any applications or registrations that either Grantor has made or filed in respect of any patents, copyrights or trademarks, (ii) the status of any outstanding applications or registrations and (iii) any material change in the composition of the Collateral;

(d) Each Grantor shall use reasonable commercial efforts to (i) protect, defend and maintain the validity and enforceability of the Trademarks, Patents and Copyrights material to the business of the Grantors (ii) detect infringements of the Trademarks, Patents and Copyrights material to the business of the Grantors and promptly advise Secured Party in writing of material infringements of such intellectual property rights detected and (iii) not allow any Trademarks, Patents or Copyrights material to the business of the Grantors to be abandoned, forfeited or dedicated to the public unless such Grantor deems it to be in the best interest of such Grantor's business;

(e) Each Grantor shall, from time to time, execute and file such other instruments, and take such further actions as Secured Party may reasonably request from time to time to perfect or continue the perfection of Secured Party's interest in the Collateral. Each Grantor shall give Secured Party notice of all such applications or registrations; and

(f) Each Grantor shall not enter into any agreement that would materially impair or conflict with such Grantor's obligations hereunder without Secured Party's prior written consent, which consent shall not be unreasonably withheld. Each Grantor shall not permit the inclusion in any material contract to which it becomes a party of any provisions that could or might in any way prevent the creation of a security interest in such Grantor's rights and interests in any property included within the definition of the Collateral acquired under such contracts, except for provisions in such material contracts as are referenced in the last paragraph of Section 1 of this Agreement.

3. Further Assurances: Attorney in Fact.

(a) On a continuing basis, Grantors will make, execute, acknowledge and deliver, and file and record in the proper filing and recording places in the United States, all such instruments, including appropriate financing and continuation statements and collateral agreements and filings with the United States Patent and Trademark Office and the Register of Copyrights, and take all such action as may reasonably be deemed necessary or advisable, or as reasonably requested by Secured Party, to perfect Secured Party's security interest in all Copyrights, Patents and Trademarks and otherwise to carry out the intent and purposes of this Agreement, or for assuring and confirming to Secured Party the grant or perfection of a security interest in all Collateral.

(b) Each Grantor hereby irrevocably appoints Secured Party as such Grantor's attorney-in-fact, with full authority in the place and stead of such Grantor and in the name of such Grantor, from time to time in Secured Party's discretion, to take any action and to execute any instrument which Secured Party may deem necessary or advisable to accomplish the purposes of this Agreement, including (i) to modify, in its sole discretion, this Agreement without first obtaining such Grantor's approval of or signature to such modification by amending Exhibits A, B and C, hereof, as appropriate, to include reference to any right, title or interest in any Copyrights, Patents or Trademarks acquired by a Grantor after the execution hereof or to delete any reference to any right, title or interest in any Copyrights, Patents or Trademarks in which such Grantor no longer has or claims any right, title or interest, (ii) to file, in its sole discretion, one or more financing or continuation statements and amendments thereto, relative to any of the Collateral without the signature of such Grantor where permitted by law, and (iii) during the continuance of an Event of Default, to transfer the Collateral into the name of Secured Party or a third party to the extent permitted under the California Uniform Commercial Code.

4. Events of Default. The occurrence of any of the following shall constitute an Event of Default under this Agreement:

(a) An Event of Default under the Loan Agreement; or

(b) Grantors material breach of any warranty or material agreement made by Grantors in this Agreement and, as to any breach that is capable of cure, Grantors fail to cure such breach within thirty (30) days of the sooner to occur of Grantors' receipt of notice of such breach from Secured Party or the date on which such breach first becomes known to Grantors.

5. Condition to Exercise of Rights. Exercise of any rights under this Agreement will be subject to and conditioned upon (and each party shall use its best efforts to ensure) compliance with applicable laws (acknowledging that LanzaTech New Zealand Limited is incorporated in New Zealand and subject to New Zealand law).

6. Amendments. This Agreement may be amended only by a written instrument signed by both parties hereto, except for amendments permitted under Section 3 hereof to be made by Secured Party alone.

7. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

*[Signature Pages Follow]*

[Signature Page to Intellectual Property Security Agreement]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

Address of Grantor: \_\_\_\_\_  
Attn: Chief Executive Officer

GRANTOR:  
LANZATECH NEW ZEALAND LIMITED  
By: [Signature]  
Name: Jennifer Holmgren  
Title: Director

By: [Signature]  
Name: Sean Simpson  
Title: Director

Address of Grantor: \_\_\_\_\_  
Attn: Chief Executive Officer

GRANTOR:  
LANZATECH, INC.  
By: [Signature]  
Name: Jennifer Holmgren  
Title: Director

GRANTOR:  
LANZATECH FREEDOM PINES BIOREFINERY LLC  
By: [Signature]  
Name: Jennifer Holmgren  
Title: Director

Address of Grantor: \_\_\_\_\_  
Attn: Chief Executive Officer

GRANTOR:  
LANZATECH HONG KONG LIMITED  
By: [Signature]  
Name: Jennifer Holmgren  
Title: Director





Address of Grantor:

.....  
.....  
Attn: Chief Executive Officer

GRANTOR:

LANZATECH PRIVATE LIMITED

By: .....  
Name: .....  
Title: .....

Address of Secured Party:

104 La Mesa Dr., Suite 102  
Portola Valley, CA 94028  
Attn: Chief Financial Officer

SECURED PARTY:

VENTURE LENDING & LEASING VI, INC.

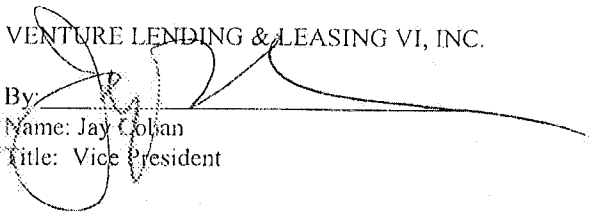
By:   
Name: Jay Colian  
Title: Vice President

EXHIBIT A

Copyrights

Description

Registration Number

Registration Date

N/A

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JTK/418652.2

EXHIBIT B

Patents

Feedstock (including Processing and Delivery)			
		Published	Improved carbon capture in fermentation
LT8(1)	US 12/739,424	Published	Improved carbon capture in fermentation
	NZ 560757	Granted	
	AU 2008319515	Pending	
	EP 8843491.5	Pending	
	IN 2712/DELNP/2010	Pending	
	CN 200880119494.8	Pending	
	KR 10-2010-7011884	Pending	
	JP 2010-531980	Pending	
	BR P10818458-5	Pending	
	RU 2010121637	Pending	
	HK 10109083.7	Pending	
LT8(2)	US 12/821,468	Examined	Improved carbon capture in fermentation
LT8(3)	NZ 601625	Pending	Improved carbon capture in fermentation
	US 13/587,444	Pending	

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LT19	US8,119,844	Issued	Alcohol production process
LT31	US 8,263,372	Issued	Improved carbon capture in fermentation
	AU2010242175	Accepted	
	NZ596028	Pending	
	CA2759898	Pending	
	EP10770002.3	Pending	
	IN9260/DELNP/2011	Pending	
	CN201080029403.9	Pending	
	BR (TBA)	Pending	
	KR10-2011-7028604	Pending	
	JP2012-508419	Pending	
	EA201171318	Pending	
	ZA2011/08692	Pending	
	HK12102369.5	Pending	
	ID W-00201104387		
LT44	PCT/NZ2011/000064	Pending	Fermentation Process
	AU (TBA)	Pending	
	TW 100115699	Pending	
	GCC 2011/18342	Pending	

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LT67	US61/504,543	Pending	Fermentation Process
Industrial Integration			
LT52	PCT/US2011/057208	Pending	Improvements to Steam Reforming Process
	TW100138365		
	CA (TBA)		
	US13/497,969		
LT54	PCT/US2011/58211	Pending	Improvements to CO2 Reforming Process
	TW100139475		
	CA (TBA)		
LT57	PCT/US2011/057220	Pending	Fermentation Process

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	TW100138366			
	CA (TBA)			
LT61	US13/330568	Pending	A fermentation method	
	PCT/US2011/065873			
LT66	US13/477,827	Pending	Process for the Production of Esters	
	PCT/US2012/039002	Pending		
LT73	US 61/597122	Pending	Natural Gas	
	Fermentation Optimization			
LT4	NZ583586	Accepted	Alcohol production process	
	IN698/DELNP/2010	Pending		
	CN20088011599.9	Pending		
LT18	US8,119,378	Issued	Alcohol production process	
	NZ587563	Accepted		
	AU2009224112	Accepted		
	CA2718219	Allowed		

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	EP9720425.9	Published	
	IN6213/DELNP	Pending	
	CN 200980108672.1	Published	
	HK11104674.2	Pending	
	KR10-2010-7022809	Published	
	JP 2010-550626	Pending	
	BR PI0909334-6	Pending	
	EA 201071067	Pending	
	ZAPA2010/06146	Granted	
LT25	CN 200980155294.2	Pending	Optimized fermentation media and reducing agent
	KR10-2011-7015336	Published	
	EP9830636.8	Pending	
	US13/058,375	Pending	
LT27	US13/058,629	Published	Alcohol production process
	AU 2010214147	Pending	
	BR PI1008162-3	Pending	
	CA2751060	Published	
	CN201080013399.7	Published	
	EP 10741458.3	Published	

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	HK11113696.7	Pending	
	IN6117/DELNP/2011	Pending	
	JP2011-547846	Pending	
	KR10-2011-7020129	Published	
	NZ594329	Pending	
LT28	US13/060,334	Pending	Culture storage methods
	EP10746498.4		
	IN6629/DELNP/2011		
	CN201080014015.3		
	KR10-2011-7022594		
LT29	US13/058,393	Pending	Optimized fermentation media
LT33	US13/060,862	Pending	Alcohol Production Process
	EP10794423.3		
	IN646/DELNP/2012		
	CN201080030113.6		
	KR10-2012-7003000		

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LT40	US13/060,357	Pending	Alcohol production process
	IN5452/DELNP/2012	Pending	
	CN2010800592023	Pending	
LT41	US13/119,582	Pending	Alcohol production process
	CN (TBA)	Pending	
	AU 2011205873	Pending	
	NZ600866	Pending	
	CA (TBA)	Pending	
	EP 11733140.5	Pending	
	IN 5816/DELNP/2012	Pending	
	MY PI 2012003143	Pending	
LT43	US61/468,440	Pending	Alcohol production process
LT65	US 13/435,453	Pending	A fermentation Process
	TW101111536		
	PCT/IB2012/051533		

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LT69	US61/552,174	Pending	A fermentation Process
LT68	US 61/566,731	Pending	A Fermentation Process
LT71	US 61/618207	Pending	A Fermentation Process
<b>Process Design</b>			
LT35	TW99130105	Pending	Improved fermentation of gaseous substrates
	GCC2010/16701	Pending	
	US8,178,330	Issued	
	NZ598279	Pending	
	AU2010290201	Pending	
	CN201080039626.3	Pending	
	EP10814012	Pending	
LT46	PCT/NZ2011/000082	Pending	Alcohol production process
	CA2781876		
LT76	US61/650655	Pending	A process for the fermentation and recovery of one or more products

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	Proprietary Microbes		
LT14	US12/742,149	Granted	Novel bacteria and methods of use thereof
	US 13/537,798		
	NZ584652	Pending	
	AU2008321615	Pending	
	CA2703622	Pending	
	EP8849635.1	Pending	
	IN3008/DELNP/2010	Pending	
	CN 200880124482.4	Published	
	KR10-2010-7012119	Published	
	JP2010-533986	Pending	
	BRPI0820556-6	Pending	
	EA201070608	Pending	
	HK10111856.8	Pending	
LT47	PCT/NZ2011/000144	Pending	Novel bacteria and methods of use thereof
	GC2011/18955		
	Byproduct Recycle		

LT1	US12/296,300	Accepted	Gas treatment process
	NZ546496	Granted	
LT3	US12/529,761	Accepted	Alcohol production process
	NZ553984	Granted	
Products			
LT20	US12/997,063	Pending	Production of butanediol by fermentation
	NZ589632	Pending	
	AU2009258344	Pending	
	CA2727549	Pending	
	EP 9762723.6	Pending	
	IN8652/DELNP/2010	Pending	
	HK11104675.1	Pending	
	CN200980108672.1	Pending	
	KR 10-2011-7000650	Pending	
	JP 2011-513445	Pending	

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	BR PI0915017-0	Pending	
	EA 201071379	Pending	
	ZA 2010/08795	Accepted	
LT42	US13/121,426	Pending	Acid Production by fermentation
	IN (TBA)	Pending	
LT48	US13/212,891	Pending	A Process for Producing Chemicals Using Microbial Fermentation of Substrates Comprising Carbon Monoxide
	TW100129850		
	PCT/US2011/048301		
LT49	US61/377,309	Pending	A process
	TW100130776		
	CA (TBA)		
	PCT/NZ2011/000170		

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LT70	PCT (TBA)	Pending	CO2/H2 to lipids
	US 13/607,314	Pending	
LT72	US61/564,178	Pending	CO2/H2 to lipids
	<b>Synthetic Biology</b>		
LT51	PCT/NZ2011/000203	Pending	Butnaol Transformation
	US13/049,263		
LT62	PCT/NZ2011/000221	Pending	Ethanol Tolerance
	US13/073,089		
	TW100138186		
LT64	PCT/NZ2012/000022	Pending	Acetone/ Isopropanol Transformation
	US 13/403,972		
	US 13/459,211		




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	TW101106425			
LT74	US 61/593269			BDO Knockout Strain
LT75	US 61/620538			Enzyme altered metabolic activity
LT78	US 61/653348		Pending	Recombinant Microorganisms and uses Therefore
LT79	US 61/654412		Pending	Recombinant Microorganisms and uses Therefore
LT80	US 61/662467		Pending	Recombinant Microorganisms and uses Therefore
LT81	US 61/657292		Pending	Recombinant Microorganisms and uses Therefore
LT82	US 61/650757		Pending	Selection Method and Recombinant Microorganisms and uses Therefor
LT83	US 61/694,104		Pending	Recombinant microorganisms and uses therefor

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EXHIBIT C

Trademarks

<p>CHINA LANZATECH</p>	<p>1</p>	<p>Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), 1-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms.</p>	<p>29 July 2010</p>	<p>8523502</p>
<p></p>	<p>40</p>	<p>Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>29-Jul-10</p>	<p>8523503</p>
<p></p>	<p>1</p>	<p>Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), 1-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms.</p>	<p>29-Jul-10</p>	<p>8523505</p>
<p></p>	<p>40</p>	<p>Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>29-Jul-10</p>	<p>8523506</p>



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	<p>4</p>	<p>Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.</p>	<p>29-Jul-10</p>	<p>8523507</p>
	<p>1</p>	<p>Chemicals used in Industry; 2, 3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), 1-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms.</p>	<p>29-Jul-10</p>	<p>8523508</p>
<p>LANZATECH</p>	<p>40</p>	<p>Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>29-Jul-10</p>	<p>8523517</p>
<p>LANZATECH</p>	<p>4</p>	<p>Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.</p>	<p>29-Jul-10</p>	<p>8523518</p>
	<p>4</p>	<p>Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.</p>	<p>13-Dec-10</p>	<p>8943454</p>

朗泽 (LANZATECH) Chinese Characters	1	Chemicals used in industry; 2,3 butanediol, isoprene, MEK (Methyl Ethyl Ketone), i-butanol, isopropanol, acetone, succinic acid, acrylic acid, 2-butanol, biodiesel and/or fatty acid ethyl ester (FAEE); chemical additives for fuels and lubricants; biological preparations other than for medical or veterinary purposes; chemical preparations for scientific purposes other than for medical or veterinary use; bacterial preparations other than for medical or veterinary use; preparations of microorganisms other than for medical and veterinary use; cultures of microorganisms other than for medical and veterinary use	22/03/2011	9242473
朗泽 (LANZATECH) Chinese Characters	4	Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.	22/03/2011	9242474
朗泽 (LANZATECH) Chinese Characters	40	Production of energy; recycling of waste and trash; processing of microorganisms and bacteria; processing of fuels; production of fuels [production of energy]; processing of fuels using carbon monoxide component of waste flue gases as a feed; production of fuels using carbon monoxide component of waste flue gases as a feed (production of energy)	22/03/2011	9242475

INDIA

	1, 4 & 40	01- Chemicals used in Industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), I-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms. 04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.	28-Jan-11	2091358
	1, 4 & 40	01- Chemicals used in Industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), I-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms. 04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.	28-Jan-11	2091359

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LANZATECH

1, 4 &  
40

01- Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), l-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms.  
04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.  
40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.

28-Jan-11

2091361

NEW ZEALAND

1, 4 &  
40


01- Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), l-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms.  
04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels.  
40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.

28-Jul-10

827969



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JTK/418652.2

<p>LANZATECH</p>	<p>1, 4 &amp; 40</p>	<p>01- Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), I-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms. 04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>28-Jul-10</p>	<p>827971</p>
<p></p>	<p>1, 4 &amp; 40</p>	<p>01- Chemicals used in industry; 2,3 Butanediol, Isoprene, MEK (Methyl Ethyl Ketone), I-Butanol, Isopropanol, Acetone, Succinic Acid, Acrylic Acid, 2-Butanol, Biodiesel/Fatty Acid ethyl ester (FAEE), chemical additives for fuels and lubricants; bacteria; bacterial substances for industrial and scientific use; bacterial substances and preparations; preparations and cultures for microorganisms. 04- Alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40-Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>28-Jul-10</p>	<p>827979</p>

UNITED STATES

LanzaTech	4	Industrial oils and greases; lubricants; dust absorbing, wetting and binding compositions; fuels (including motor spirit) and illuminants; candles, wicks.	29-Jan-09	77659671
LanzaTech	40	Treatment of materials; production of energy	29-Jan-09	77659675
<b>LanzaTech</b>	4	Industrial oils and greases; lubricants; dust absorbing, wetting and binding compositions; fuels (including motor spirit) and illuminants; candles, wicks.	29-Jan-09	77659680
<b>LanzaTech</b>	40	Treatment of materials; production of energy	29-Jan-09	77659686
LanzaTech	1, 4 & 40	01 - Industrial chemicals, namely, 2,3 butanediol, isoprene, methyl ethyl ketone, i-butanol, isopropanol, acetone, succinic acid, acrylic acid, 2-butanol, biodiesel and fatty acid ethyl ester; chemical additives for fuels and lubricants; bacteria for use in fermentation of gases; bacterial substances for industrial and scientific use, namely bacterial substances and preparations, namely, bacteria for use in fermentation of gases; preparations and cultures for microorganisms, namely for fermentation of gases. 04 - Alcohols, namely alcohol and mixed alcohol fuel; alcohol for fuel manufacture, namely, fuels with an alcoholic base; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid biofuels; gaseous biofuels; solid biofuels; smokeless biofuels; bio-diesel fuels; non chemical additives for oils and fuels. 40 - Production of energy; recycling; production, treatment and refinement of microorganisms and bacteria, production, treatment and refinement of fuels; production, treatment and refinement of fuels using carbon monoxide component of waste flue gases as a feed.	26/01/11	85227015

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lanzaTech

1, 4 &  
40

01 - Industrial chemicals, namely, 2,3 butanediol, isoprene, methyl ethyl ketone, i-butanol, isopropanol, acetone, succinic acid, acrylic acid, 2-butanol, biodiesel and fatty acid ethyl ester; chemical additives for fuels and lubricants; bacteria for use in fermentation of gases ; bacterial substances for industrial and scientific use, namely bacterial substances and preparations, namely, bacteria for use in fermentation of gases; preparations and cultures for microorganisms, namely for fermentation of gases.  
04 - Alcohols, namely alcohol and mixed alcohol fuel; alcohol for fuel manufacture, namely, fuels with an alcoholic base; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid biofuels; gaseous biofuels; solid biofuels; smokeless biofuels; bio-diesel fuels; non chemical additives for oils and fuels.  
40 - Production of energy; recycling; production, treatment and refinement of microorganisms and bacteria, production, treatment and refinement of fuels; production, treatment and refinement of fuels using carbon monoxide component of waste flue gases as a feed.

26/01/11

85227036

<p>1, 4 &amp; 40</p>	<p>01 - Industrial chemicals, namely, 2,3 butanediol, isoprene, methy ethyl ketone, i-butanol, isopropanol, acetone, succinic acid, acrylic acid, 2-butanol, biodiesel and fatty acid ethyl ester; chemical additives for fuels and lubricants; bacteria for use in fermentation of gases ; bacterial substances for industrial and scientific use, namely bacterial substances and preparations, namely, bacteria for use in fermentation of gases; preparations and cultures for microorganisms, namely for fermentation of gases.</p> <p>04 - Alcohols, namely alcohol and mixed alcohol fuel; alcohol for fuel manufacture, namely, fuels with an alcoholic base; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid biofuels; gaseous biofuels; solid biofuels; smokeless biofuels; bio-diesel fuels; non chemical additives for oils and fuels.</p> <p>40 - Production of energy; recycling; production, treatment and refinement of microorganisms and bacteria, production, treatment and refinement of fuels; production, treatment and refinement of fuels using carbon monoxide component of waste flue gases as a feed.</p>	<p>26/01/11</p>	<p>85227060</p>
<p>FREEDOM PINES</p>	<p>04 - Fuels produced from biomass, namely, alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40 - Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of synthesis gas derived from biomass.</p>	<p>9/03/12</p>	<p>85563695</p>



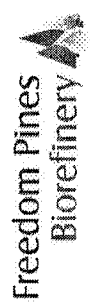


85594314

12/04/12

04 - Fuels produced from biomass, namely, alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40 - Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of synthesis gas derived from biomass.

4 & 40



85594338

11/04/12

04 - Fuels produced from biomass, namely, alcohols; alcohol fuels; alcohol for fuel manufacture; ethyl fuels; gaseous fuels; liquid fuels; solid fuels; smokeless fuels; liquid bio-fuels; gaseous bio-fuels; solid bio-fuels; smokeless bio-fuels; bio-diesel; fuel cells; non chemical additives for oils and fuels. 40 - Production of energy; recycling; production and processing of microorganisms and bacteria; processing and production of fuels; processing and production of fuels using carbon monoxide component of synthesis gas derived from biomass.

4 & 40

