

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3564252

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	THIS SUBMISSION IS TO CORRECT AN ERROR IN A COVER SHEET PREVIOUSLY RECORDED AT REEL/FRA ME NO. 036744/0529. CORRECTION OF APPLICATION NO. TO 14/189,943; CORRECTION OF ATTORNEY DOCKET NO. TO NB31414-US-CNT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WOLFGANG AEHLE	12/06/2011
RICHARD R. BOTT	12/12/2011
BENJAMIN S. BOWER	12/16/2011
JONATHAN CASPI	12/01/2011
DAVID A. ESTELL	01/12/2012
FRITS GOEDEGEBUUR	12/02/2011
RONALDUS WILHELMUS HOMMES	12/02/2011
THIJS KAPER	12/12/2011
BRADLEY R KELEMEN	12/19/2011
SLAVKO KRALJ	12/02/2011
JOHANNES FRANCISCUS THOMAS VAN LIESHOUT	12/02/2011
IGOR NIKOLAEV	12/02/2011
SANDER VAN STIGT THANS	12/05/2011
LOUISE WALLACE	02/15/2012
GUDRUN VOGTENTANZ	12/02/2011
MATS SANDGREN	12/21/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Danisco US Inc.
<b>Street Address:</b>	925 Page Mill Road
<b>City:</b>	Palo Alto
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94304-1013
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14189943
<b>CORRESPONDENCE DATA</b>	

**Fax Number:** (650)845-6504

**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:** 650-846-7500

**Email:** dolores.mckay@dupont.com

**Correspondent Name:** DANISCO US INC.;

**Address Line 1:** 925 PAGE MILL ROAD

**Address Line 4:** PALO ALTO, CALIFORNIA 94304-1013

<b>ATTORNEY DOCKET NUMBER:</b>	NB31414-US-CNT
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<b>NAME OF SUBMITTER:</b>	DOLORES MCKAY
---------------------------	---------------

<b>SIGNATURE:</b>	/Dolores McKay/
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<b>DATE SIGNED:</b>	10/09/2015
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**Total Attachments: 55**

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																																		
<b>CONVEYING PARTY DATA</b>																																			
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>WOLFGANG AEHLE</td><td>12/06/2011</td></tr><tr><td>RICHARD R. BOTT</td><td>12/12/2011</td></tr><tr><td>BENJAMIN S. BOWER</td><td>12/16/2011</td></tr><tr><td>JONATHAN CASPI</td><td>12/01/2011</td></tr><tr><td>DAVID A. ESTELL</td><td>01/12/2012</td></tr><tr><td>FRITS GOEDEGEBUUR</td><td>12/02/2011</td></tr><tr><td>RONALDUS WILHELMUS HOMMES</td><td>12/02/2011</td></tr><tr><td>THIJS KAPER</td><td>12/12/2011</td></tr><tr><td>BRADLEY R. KELEMEN</td><td>12/19/2011</td></tr><tr><td>SLAVKO KRALJ</td><td>12/02/2011</td></tr><tr><td>JOHANNES FRANCISCUS THOMAS VAN LIESHOUT</td><td>12/02/2011</td></tr><tr><td>IGOR NIKOLAEV</td><td>12/02/2011</td></tr><tr><td>SANDER VAN STIGT THANS</td><td>12/05/2011</td></tr><tr><td>LOUISE WALLACE</td><td>02/15/2012</td></tr><tr><td>GUDRUN VOGTENTANZ</td><td>12/02/2011</td></tr><tr><td>MATS SANDGREN</td><td>12/21/2011</td></tr></tbody></table>	Name	Execution Date	WOLFGANG AEHLE	12/06/2011	RICHARD R. BOTT	12/12/2011	BENJAMIN S. BOWER	12/16/2011	JONATHAN CASPI	12/01/2011	DAVID A. ESTELL	01/12/2012	FRITS GOEDEGEBUUR	12/02/2011	RONALDUS WILHELMUS HOMMES	12/02/2011	THIJS KAPER	12/12/2011	BRADLEY R. KELEMEN	12/19/2011	SLAVKO KRALJ	12/02/2011	JOHANNES FRANCISCUS THOMAS VAN LIESHOUT	12/02/2011	IGOR NIKOLAEV	12/02/2011	SANDER VAN STIGT THANS	12/05/2011	LOUISE WALLACE	02/15/2012	GUDRUN VOGTENTANZ	12/02/2011	MATS SANDGREN	12/21/2011	
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<b>PROPERTY NUMBERS Total: 1</b>																																			

Property Type	Number
Application Number:	<del>40917297</del> 14/189,943

**CORRESPONDENCE DATA**

**Fax Number:** (650)845-6504  
**Phone:** 650-846-7500  
**Email:** dolores.mckay@dupont.com  
*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.*  
**Correspondent Name:** DANISCO US INC.; JENA EVANS  
**Address Line 1:** 925 PAGE MILL ROAD  
**Address Line 4:** PALO ALTO, CALIFORNIA 94304-1013

<b>ATTORNEY DOCKET NUMBER:</b>	NB30940-US-CNT NB31414-US-CNT
<b>NAME OF SUBMITTER:</b>	DOLORES MCKAY
<b>Signature:</b>	/Dolores McKay/
<b>Date:</b>	10/02/2015

**Total Attachments: 50**

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**RECEIPT INFORMATION**

**EPAS ID:** PAT3554000  
**Receipt Date:** 10/02/2015

ASSIGNOR:  
KAPER, THIJS

DOC DATE: 12/12/2011

ASSIGNOR:  
KELEMEN, BRADLEY R.

DOC DATE: 12/19/2011

ASSIGNOR:  
KRALJ, SLAVKO

DOC DATE: 12/02/2011

ASSIGNOR:  
VAN LIESHOUT, JOHANNES FRANCISCUS  
THOMAS

DOC DATE: 12/02/2011

ASSIGNOR:  
NIKOLAEV, IGOR

DOC DATE: 12/02/2011

ASSIGNOR:  
VAN STIGT THANS, SANDER

DOC DATE: 12/05/2011

ASSIGNOR:  
WALLACE, LOUISE

DOC DATE: 02/15/2012

ASSIGNOR:  
VOGTENTANZ, GUDRUN

DOC DATE: 12/02/2011

ASSIGNOR:  
SANDGREN, MATS

DOC DATE: 12/21/2011

ASSIGNEE:  
DANISCO US INC.  
925 PAGE MILL ROAD  
PALO ALTO, CALIFORNIA 94304-1013

APPLICATION NUMBER: ~~43917237~~

FILING DATE: 06/13/2013

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR IMPROVING YIELD OF CELLULOSE CONVERSION PROCESSES

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION



First you add knowledge...

Attorney Docket No.: 31414US-2

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by

- |   |   |   |
|---|---|---|
| 1. Wolfgang Aehle of<br>Zwingenberg, Germany                  | 2. Richard R. Bott of Burlingame,<br>California       | 3. Benjamin Bower of Newark,<br>California              |
| 4. Jonathan Caspi of Sunnyvale,<br>California                 | 5. David A. Estell of San Francisco,<br>California    | 6. Frits Goedegebuur of<br>Vlaardingen, The Netherlands |
| 7. Ronaldus W. J. Hommes of<br>Haarlem, The Netherlands       | 8. Thijs Kaper of Half Moon Bay,<br>California        | 9. Bradley Kelemen of Menlo<br>Park, California         |
| 10. Slavko Kralj of Oegstgeest, The<br>Netherlands            | 11. Johan Van Lieshout of Utrecht,<br>The Netherlands | 12. Igor Nikolaev of Noordwijk,<br>The Netherlands      |
| 13. Sander Van Stigt Thans of<br>Zevenbergen, The Netherlands | 14. Louise Wallace of Palo Alto,<br>California        | 15. Gudrun Vogtentanz of<br>Sunnyvale, California       |
| 16. Mats Sandgren of Uppsala,<br>Sweden                       |   |   |

(hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements as described and set forth in:

Title of Invention: CELLULASE VARIANTS WITH IMPROVED EXPRESSION, ACTIVITY AND STABILITY, AND USE THEREOF

I.A. Filing Date: June 3, 2010

I.A. Application No.: PCT/US2010/037328 [US Application No. 13/321,928]

WHEREAS, Danisco US Inc., a corporation duly organized under and pursuant to the laws of Delaware and doing business at 925 Page Mill Road, Palo Alto, California 94304 USA (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention(s) and said application(s) for Letters Patent(s), United States or foreign, and in and to any Letters Patent(s), United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention(s), application(s) for Letters Patent(s), United States or foreign, and any and all Letters Patent(s) in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent(s), and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent(s) may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention(s) and the application(s) for





First you add knowledge...

Attorney Docket No.: 31414US-2

Letters Patent(s) above-mentioned, and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent(s), or any proceeding in connection with Letters Patent(s) for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any of said application(s) for Letters Patent(s) or any reissue or extension of any Letters Patent(s), to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any of said Letters Patent(s) for said invention(s), without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Zwingerberg this 6 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: Wolfgang Ahle  
Wolfgang Ahle

SIGNATURE WITNESSED BY:

Date: Dec. 06, 2011

Witness Signature: R. Skutik

Printed Name of Witness: Robert Skutik



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Richard R. Bott

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Benjamin Bower

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Jonathan Caspi

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
David A. Estell

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Frits Goedgebuur

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Ronaldus W. J. Hommes

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Thijs Kaper

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Bradley Kelemen

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Slavko Kralj

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Johan Van Lieshout

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Igor Nikolaev

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Sander Van Stigt Thans

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Louise Wallace

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Gudrun Vogtentanz

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_





First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Mats Sandren

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011

Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by

- |   |   |   |
|---|---|---|
| 1. Wolfgang Ahle of<br>Zwingenberg, Germany                   | 2. Richard R. Bott of Burlingame,<br>California       | 3. Benjamin Bower of Newark,<br>California              |
| 4. Jonathan Caspi of Sunnyvale,<br>California                 | 5. David A. Estell of San Francisco,<br>California    | 6. Frits Goedegebuur of<br>Vlaardingen, The Netherlands |
| 7. Ronaldus W. J. Hommes of<br>Haarlem, The Netherlands       | 8. Thijs Kaper of Half Moon Bay,<br>California        | 9. Bradley Kelemen of Menlo<br>Park, California         |
| 10. Slavko Kralj of Oegstgeest, The<br>Netherlands            | 11. Johan Van Lieshout of Utrecht,<br>The Netherlands | 12. Igor Nikolaev of Noordwijk,<br>The Netherlands      |
| 13. Sander Van Stigt Thans of<br>Zevenbergen, The Netherlands | 14. Louise Wallace of Palo Alto,<br>California        | 15. Gudrun Vogtentanz of<br>Sunnyvale, California       |
| 16. Mats Sandgren of Uppsala,<br>Sweden                       |   |   |

(hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements as described and set forth in:

Title of Invention: CELLULASE VARIANTS WITH IMPROVED EXPRESSION, ACTIVITY AND STABILITY, AND USE THEREOF

I.A. Filing Date: June 3, 2010

I.A. Application No.: PCT/US2010/037328 [US Application No. 13/321,928]

WHEREAS, Danisco US Inc., a corporation duly organized under and pursuant to the laws of Delaware and doing business at 925 Page Mill Road, Palo Alto, California 94304 USA (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention(s) and said application(s) for Letters Patent(s), United States or foreign, and in and to any Letters Patent(s), United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention(s), application(s) for Letters Patent(s), United States or foreign, and any and all Letters Patent(s) in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent(s), and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent(s) may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention(s) and the application(s) for



First you add knowledge...

Attorney Docket No.: 31414US-2

Letters Patent(s) above-mentioned, and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent(s), or any proceeding in connection with Letters Patent(s) for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any of said application(s) for Letters Patent(s) or any reissue or extension of any Letters Patent(s), to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any of said Letters Patent(s) for said invention(s), without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Wolfgang Achle

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto CA this 12<sup>th</sup> day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By: [Signature]  
Richard R. Bott

SIGNATURE WITNESSED BY:

Date: December 12, 2011Witness Signature: [Signature]Printed Name of Witness: Suzanne Shadley


IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto, CA this 16 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By: [Signature]  
Benjamin Bower

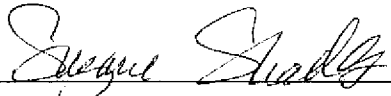
SIGNATURE WITNESSED BY:

Date: Dec. 16, 2011Witness Signature: [Signature]Printed Name of Witness: Suzanne Shadley

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto CA this 1 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By:   
Jonathan Caspi


SIGNATURE WITNESSED BY:

Date: Dec. 1, 2011Witness Signature: Printed Name of Witness: Suzanne Shadley

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto, CA this 12 day of January, ~~2011~~ <sup>2012</sup> DATE  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By:   
David A. Estell

SIGNATURE WITNESSED BY:

Date: Jan. 12, ~~2011~~ <sup>2012</sup> amwWitness Signature: Printed Name of Witness: Catherine Naughton



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Frits Goedegebuur

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

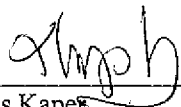
By: \_\_\_\_\_  
Ronaldus W. J. Hommes

SIGNATURE WITNESSED BY:


Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

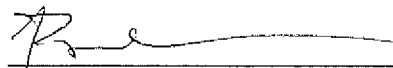
IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto, CA this 12<sup>th</sup> day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By:   
Thijs Kaper

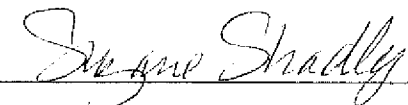
SIGNATURE WITNESSED BY:

Date: Dec. 12, 2011Witness Signature: Printed Name of Witness: Suzanne Shadley

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto Ca this 19 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)By:   
Bradley Kelemen

SIGNATURE WITNESSED BY:

Date: Dec. 19, 2011Witness Signature: Printed Name of Witness: Suzanne Shadley



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Slavko Kralj

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Johan Van Lieshout

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_





First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Igor Nikolaev

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Sander Van Stigt Thans

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Louise Wallace

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Palo Alto, CA this 02 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: Gudrun Vogtentanz  
Gudrun Vogtentanz

SIGNATURE WITNESSED BY:

Date: Dec. 2, 2011      Witness Signature: Suzanne Shadley

Printed Name of Witness: Suzanne Shadley



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Mats Sandren

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011

Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by

- |   |   |   |
|---|---|---|
| 1. Wolfgang Aehle of<br>Zwingenberg, Germany                  | 2. Richard R. Bott of Burlingame,<br>California       | 3. Benjamin Bower of Newark,<br>California              |
| 4. Jonathan Caspi of Sunnyvale,<br>California                 | 5. David A. Estell of San Francisco,<br>California    | 6. Frits Goedegebuur of<br>Vlaardingen, The Netherlands |
| 7. Ronaldus W. J. Hommes of<br>Haarlem, The Netherlands       | 8. Thijs Kaper of Half Moon Bay,<br>California        | 9. Bradley Kelemen of Menlo<br>Park, California         |
| 10. Slavko Kralj of Oegstgeest, The<br>Netherlands            | 11. Johan Van Lieshout of Utrecht,<br>The Netherlands | 12. Igor Nikolaev of Noordwijk,<br>The Netherlands      |
| 13. Sander Van Stigt Thans of<br>Zevenbergen, The Netherlands | 14. Louise Wallace of Palo Alto,<br>California        | 15. Gudrun Vogtentanz of<br>Sunnyvale, California       |
| 16. Mats Sandgren of Uppsala,<br>Sweden                       |   |   |

(hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements as described and set forth in:

Title of Invention: CELLULASE VARIANTS WITH IMPROVED EXPRESSION, ACTIVITY AND STABILITY, AND USE THEREOF

I.A. Filing Date: June 3, 2010

I.A. Application No.: PCT/US2010/037328 [US Application No. 13/321,928]

WHEREAS, Danisco US Inc., a corporation duly organized under and pursuant to the laws of Delaware and doing business at 925 Page Mill Road, Palo Alto, California 94304 USA (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention(s) and said application(s) for Letters Patent(s), United States or foreign, and in and to any Letters Patent(s), United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention(s), application(s) for Letters Patent(s), United States or foreign, and any and all Letters Patent(s) in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent(s), and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent(s) may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention(s) and the application(s) for

PATENT

REEL: 036838 FRAME: 0928

Page 1 of 10



First you add knowledge...

Attorney Docket No.: 31414US-2

Letters Patent(s) above-mentioned, and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent(s), or any proceeding in connection with Letters Patent(s) for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any of said application(s) for Letters Patent(s) or any reissue or extension of any Letters Patent(s), to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any of said Letters Patent(s) for said invention(s), without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Wolfgang Aehle

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Richard R. Bott

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Benjamin Bower

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Jonathan Caspi

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
David A. Estell

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

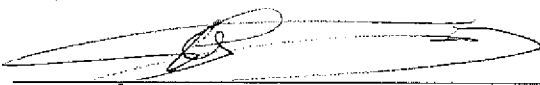


First you add knowledge...

Attorney Docket No.: 31414US-2

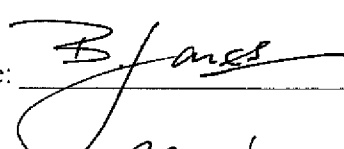
IN TESTIMONY WHEREOF, I undersign as follows:

Signed at LEIDEN, THE NETHERLANDS this 2 day of DECEMBER, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Frits Goedegebuur

SIGNATURE WITNESSED BY:

Date: 2<sup>nd</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES

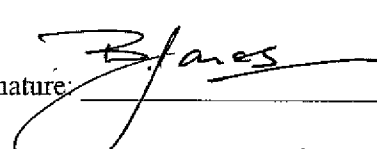
IN TESTIMONY WHEREOF, I undersign as follows:

Signed at LEIDEN, THE NETHERLANDS this 2 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Ronaldus W. J. Hommes

SIGNATURE WITNESSED BY:

Date: 2<sup>nd</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES





First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Thijs Kaper

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Bradley Kelemen

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

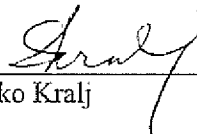


First you add knowledge...

Attorney Docket No.: 31414US-2

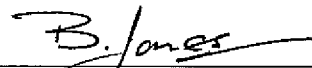
IN TESTIMONY WHEREOF, I undersign as follows:

Signed at LEIDEN, THE NETHERLANDS this 2 day of DECEMBER, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Slavko Kralj

SIGNATURE WITNESSED BY:


Date: 2<sup>nd</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Leiden The Netherlands this 2<sup>nd</sup> day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Johan Van Lieshout

SIGNATURE WITNESSED BY:

Date: 2<sup>nd</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES

PATENT

REEL: 036838 FRAME: 0934 of 10

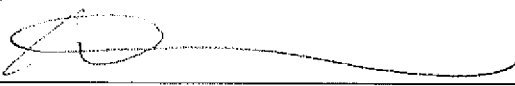


First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Leiden, Netherlands this 02 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Igor Nikolaev

SIGNATURE WITNESSED BY:

Date: 2<sup>nd</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Leiden, Netherlands this 05 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By:   
Sander Van Stigt Thans

SIGNATURE WITNESSED BY:

Date: 5<sup>th</sup> Dec., 2011

Witness Signature: 

Printed Name of Witness: BRIAN E. JONES



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Louise Wallace

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Gudrun Vogtentanz

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Mats Sandren

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011

Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

### ASSIGNMENT JOINT

THIS ASSIGNMENT, by

- |   |   |   |
|---|---|---|
| 1. Wolfgang Aehle of<br>Zwingenberg, Germany                  | 2. Richard R. Bott of Burlingame,<br>California       | 3. Benjamin Bower of Newark,<br>California              |
| 4. Jonathan Caspi of Sunnyvale,<br>California                 | 5. David A. Estell of San Francisco,<br>California    | 6. Frits Goedegebuur of<br>Vlaardingen, The Netherlands |
| 7. Ronaldus W. J. Hommes of<br>Haarlem, The Netherlands       | 8. Thijs Kaper of Half Moon Bay,<br>California        | 9. Bradley Kelemen of Menlo<br>Park, California         |
| 10. Slavko Kralj of Oegstgeest, The<br>Netherlands            | 11. Johan Van Lieshout of Utrecht,<br>The Netherlands | 12. Igor Nikolaev of Noordwijk,<br>The Netherlands      |
| 13. Sander Van Stigt Thans of<br>Zevenbergen, The Netherlands | 14. Louise Wallace of Palo Alto,<br>California        | 15. Gudrun Vogtentanz of<br>Sunnyvale, California       |
| 16. Mats Sandgren of Uppsala,<br>Sweden                       |   |   |

(hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements as described and set forth in:

Title of Invention: CELLULASE VARIANTS WITH IMPROVED EXPRESSION, ACTIVITY AND STABILITY, AND USE THEREOF

I.A. Filing Date: June 3, 2010

I.A. Application No.: PCT/US2010/037328 [US Application No. 13/321,928]

WHEREAS, Danisco US Inc., a corporation duly organized under and pursuant to the laws of Delaware and doing business at 925 Page Mill Road, Palo Alto, California 94304 USA (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention(s) and said application(s) for Letters Patent(s), United States or foreign, and in and to any Letters Patent(s), United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention(s), application(s) for Letters Patent(s), United States or foreign, and any and all Letters Patent(s) in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent(s), and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent(s) may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention(s) and the application(s) for



First you add knowledge...

Attorney Docket No.: 31414US-2

Letters Patent(s) above-mentioned, and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent(s), or any proceeding in connection with Letters Patent(s) for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any of said application(s) for Letters Patent(s) or any reissue or extension of any Letters Patent(s), to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any of said Letters Patent(s) for said invention(s), without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Wolfgang Achle

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011

Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Richard R. Bott

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Benjamin Bower

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_





First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Jonathan Caspi

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
David A. Estell

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Frits Goedegebuur

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Ronaldus W. J. Hommes

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Thijs Kaper

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Bradley Kelemen

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Slavko Kralj

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Johan Van Lieshout

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Igor Nikolaev

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Sander Van Stigt Thans

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at PALO ALTO, CA this 15 day of FEBRUARY, 2012  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: L. Wallace  
Louise Wallace

SIGNATURE WITNESSED BY:

Date: Feb. 15, 2012  
CNN

Witness Signature: Catherine Naughton

Printed Name of Witness: Catherine Naughton

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Gudrun Vogtentanz

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011

Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Mats Sandren

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by

- |   |   |   |
|---|---|---|
| 1. Wolfgang Aehle of<br>Zwingenberg, Germany                  | 2. Richard R. Bott of Burlingame,<br>California       | 3. Benjamin Bower of Newark,<br>California              |
| 4. Jonathan Caspi of Sunnyvale,<br>California                 | 5. David A. Estell of San Francisco,<br>California    | 6. Frits Goedegebuur of<br>Vlaardingen, The Netherlands |
| 7. Ronaldus W. J. Hommes of<br>Haarlem, The Netherlands       | 8. Thijs Kaper of Half Moon Bay,<br>California        | 9. Bradley Kelemen of Menlo<br>Park, California         |
| 10. Slavko Kralj of Oegstgeest, The<br>Netherlands            | 11. Johan Van Lieshout of Utrecht,<br>The Netherlands | 12. Igor Nikolaev of Noordwijk,<br>The Netherlands      |
| 13. Sander Van Stigt Thans of<br>Zevenbergen, The Netherlands | 14. Louise Wallace of Palo Alto,<br>California        | 15. Gudrun Vogtentanz of<br>Sunnyvale, California       |
| 16. Mats Sandgren of Uppsala,<br>Sweden                       |   |   |

(hereinafter referred to as the Assignors), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements as described and set forth in:

Title of Invention: CELLULASE VARIANTS WITH IMPROVED EXPRESSION, ACTIVITY AND STABILITY, AND USE THEREOF

I.A. Filing Date: June 3, 2010

I.A. Application No.: PCT/US2010/037328 [US Application No. 13/321,928]

WHEREAS, Danisco US Inc., a corporation duly organized under and pursuant to the laws of Delaware and doing business at 925 Page Mill Road, Palo Alto, California 94304 USA (hereinafter referred to as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention(s) and said application(s) for Letters Patent(s), United States or foreign, and in and to any Letters Patent(s), United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention(s), application(s) for Letters Patent(s), United States or foreign, and any and all Letters Patent(s) in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application(s), or reissues or extensions of said Letters Patent(s), and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent(s) may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention(s) and the application(s) for





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Attorney Docket No.: 31414US-2

Letters Patent(s) above-mentioned, and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent(s), or any proceeding in connection with Letters Patent(s) for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any of said application(s) for Letters Patent(s) or any reissue or extension of any Letters Patent(s), to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any of said Letters Patent(s) for said invention(s), without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Wolfgang Aehle

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Richard R. Bott

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Benjamin Bower

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Jonathan Caspi

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
David A. Estell

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Frits Goedegebuur

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Ronaldus W. J. Hommes

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Thijs Kaper

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Bradley Kelemen

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Slavko Kralj

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Johan Van Lieshout

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Igor Nikolaev

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Sander Van Stigt Thans

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_



First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Louise Wallace

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: \_\_\_\_\_  
Gudrun Vogtentanz

SIGNATURE WITNESSED BY:

Date: \_\_\_\_\_, 2011      Witness Signature: \_\_\_\_\_

Printed Name of Witness: \_\_\_\_\_





First you add knowledge...

Attorney Docket No.: 31414US-2

IN TESTIMONY WHEREOF, I undersign as follows:

Signed at Uppsala this 21 day of December, 2011.  
(COMPLETE CITY/STATE OR CITY/COUNTRY WHERE EXECUTED)

By: Mats Sandgren  
Mats Sandren

SIGNATURE WITNESSED BY:

Date: 21/12, 2011

Witness Signature: [Signature]

Printed Name of Witness: Saeid Karkerhabadi