504488206 08/03/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4534908

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES CASEY LIPPMEIER	09/03/2008
JOSEPH W. PFEIFER III	09/04/2008
JON MILTON HANSEN	09/04/2008
KIRK E APT	09/04/2008
WILLIAM ROBERT BARCLAY	09/05/2008
PAUL WARREN BEHRENS	09/04/2008
DAVID CHRISTIAN MARTIN	09/03/2008

RECEIVING PARTY DATA

Name:	MARTEK BIOSCIENCES CORPORATION
Street Address:	6480 DOBBIN ROAD
Internal Address:	PATENT DEPT
City:	COLUMBIA
State/Country:	MARYLAND
Postal Code:	21045

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15237988

CORRESPONDENCE DATA

Fax Number:

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:	240-512-2716
Email:	dsmna.ip@dsm.com
Correspondent Name:	DSM NORTH AMERICA INC.
Address Line 1:	6480 DOBBIN ROAD
Address Line 2:	PATENT DEPT

Address Line 4: COLUMBIA, MARYLAND 21045

ATTORNEY DOCKET NUMBER:	28471-US-CNT2
NAME OF SUBMITTER:	KIMBERLY SAUTER-BRAY, IP PARALEGAL
SIGNATURE:	/KIMBERLY SAUTER-BRAY, IP PARALEGAL/

504488206

PATENT REEL: 043190 FRAME: 0581

DATE SIGNED:	08/03/2017
Total Attachments: 15	
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	RECORDATION FORM COVE PATENTS ONLY	ER SHEET	Pate	nt and Trade	of Commerce mark Office No. 09966.0003-00
To the Director of the U.S. P Please record the attached of	atent and Trademark Office: original documents or copy thereof.		Mail Stop A	ssignment R	ecordation Services
1. Name of conveying p		2. N	lame and addre	ss of receiving	party(ies):
James C. LIPPMEIER, Joseph W. PFEIFER III, Jon M. HANSEN, Kirk E. APT, William R. BARCLAY, Paul W. BEHRENS, David C. MARTIN		Name: MARTEK BIOSCIENCES CORPORATION			
Additional name(s) of conveying party(ies) attached? Yes No		Internal A	ddress:		
3. Nature of conveyance:		Street Add	dress: 6480) Dobbin Road	1
Assignment	Merger	City: C	Columbia		
Security Agreement	Change of Name	State:	MD	Zip Code:	21045
Joint Research Agreement	Government Interest Assignment	Additional	name(s) & Addr	ess(es) attact	ned?
Executive Order 9494, Confirmatory License	Other:	☐ Yes ⊠ No			
Execution Date: September 3, September 4, September 4, September 4, and September 3, 2008					
) or patent number(s): If this document is b ember 3, September 4, September 4, Sept				
A. Patent Application Nu	imber(s):	B. F	Patent Number(s):	
Unknown					
	Additional numbers attached?	└ ☐ Yes	🖾 No		
 Name and address of party to whom correspondence concerning document should be mailed: 			otal number of a Dne (1).	applications ar	nd patents involved:
Name: Jessica H. Roark	(202) 408-4000	7. T	otal fee (37 CFF	R 1.21(h) and	3.41): \$40
Internal Address: FINNEGA & DUNNE	N, HENDERSON, FARABOW, GARRETT R, L.L.P.				leficiency or credit count 06-0916)
Street Address: 901 New Y	York Avenue, N.W.		Authorized t	o be charged	to deposit account
City: Washington,	D.C.	<u> </u>	····		
State:	Zip: 20001-4413	8. C	Deposit Account	No.: <u>06-0916</u>	····
9. Statement and signat	ure.				
To the best of my knowledge a document.	and belief, the foregoing information is true	and correct a	and any attached	l copy is a true	e copy of the original
Signed:	Jos- H Runk			September	
Ç	Jessica H. Roark				ate
Tota	al number of pages including cover sheet, a	attachments a	and documents:	15	
/2007					

PATENT REEL: 043190 FRAME: 0583

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

BIOLOGICAL OILS AND PRODUCTION AND USES THEREOF

for which We executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, MARTEK BIOSCIENCES CORPORATION, a corporation of Delaware, whose post office address is 6480 Dobbin Road, Columbia, MD 21045 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional Application No. 60/960,037, filed September 12, 2007, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to ald Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No._____, filed _____) the filing date and application number of the application when known.

County of	Howard)		Name:	James Casey Lippmeier
) :	ss.	Address:	5364 Racegate Run
				Columbia, MD 21045
State of	manfand;		By:	1 flores
-	0		Date:	9/3/08
	A.	r	8 . · ·	
Subscribed	and sworn to before me this $\underline{3}$	A day	of <u>Aepen</u>	66,2008
D. Spr	anne Amp , Notary Public	3	8	,
my Cor	nonision Expires : 11/1/20	010		

County of) .			Joseph W. Pfeifer III 776 Nadines Court
) State of)		By: Date:	Westminster, MD 21157
Subscribed and sworn to before me this, Notary Public	_ day	of	_, 2008
County of) ss.		Address:	Jon Milton Hansen 1184 Sheffield Place Lexington, KY 40509
State of)		By: Date:	
Subscribed and sworn to before me this, Notary Public	_ day	of	_, 2008
County of) ss.		Address:	Kirk E. Apt 3874 Paul Mill Road
State of)		`	Ellicott City, MD 21042
Subscribed and sworn to before me this, Notary Public	_ day	of	, 2008
County of) ss.		Address:	William Robert Barclay 7356 Panorama Drive
) State of)		By: Date:	Boulder, Colorado 80303
Subscribed and sworn to before me this, Notary Public	_ day	of	_, 2008
County of) ss	•		Paul Warren Behrens 11413 Butterfruit Way
) State of)		By: Date:	Ellicott City, MD 21042
Subscribed and sworn to before me this, Notary Public	day	of	_, 2008
County of) ss	•	Name: Address:	David Christian Martin 217 Northway Road
) State of)		By: Date:	Reisterstown, MD 21136
Subscribed and sworn to before me this, Notary Public	_ day	of	, 2008

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County of)		Name:	James Casey Lippmeier	
· · · · · · · · · · · · · · · · · · ·	SS.	Address:	5364 Racegate Run	
j j			Columbia, MD 21045	
State of		By:		
		Date:		
Subscribed and sworn to before me this	day	/ of	_, 2008	

, Notary Public

County of <u>Howard</u>)	SS.		Joseph W. Pfeifer III 776 Nadines Court
State of <u>Marylanel</u>)		By: Date:	Westminster, MD 21157
Subscribed and sworn to before me this _4 	<u>th</u> day c	ONJENA	Sarah E. Chandlèr ubR048ward-County, MD nmission Expires 3.22.2011
County of)	\$ S .	Address:	Jon Milton Hansen 1184 Sheffield Place Lexington, KY 40509
State of)		By: Date:	
Subscribed and sworn to before me this, Notary Public	day c	of	, 2008
County of)	SS.	Address:	Kirk E. Apt 3874 Paul Mill Road
) State of)		By: Date:	Ellicott City, MD 21042
Subscribed and sworn to before me this, Notary Public	day	of	_, 2008
County of)	SS.		William Robert Barclay 7356 Panorama Drive Boulder, Colorado 80303
State of)		By: Date:	
Subscribed and sworn to before me this, Notary Public	day ic	of	_, 2008
County of)	SS.		Paul Warren Behrens
	00.		11413 Butterfruit Way
State of)	9 00 .		11413 Butterfruit Way Ellicott City, MD 21042
State of) Subscribed and sworn to before me this, Notary Public	day	By: Date:	Ellicott City, MD 21042
Subscribed and sworn to before me this, Notary Public County of)	day	By: Date: of Name:	Ellicott Clty, MD 21042 , 2008 David Christian Martin 217 Northway Road
Subscribed and sworn to before me this, Notary Public County of)	day	By: Date: of Name:	Ellicott City, MD 21042 , 2008 David Christian Martin

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County of)	SS.		James Casey Lippmeier 5364 Racegate Run	
)		_	Columbia, MD 21045	
State of)		By: Date:		
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County of) ss.		Joseph W. Pfeifer III 776 Nadines Court
State of)	By: Date:	Westminster, MD 21157
Subscribed and sworn to before me this, Notary Public	day of	_, 2008
County of <u>Loward</u>) ss.	Address:	Jon Milton Hansen 1184 Sheffield Place Lexington, KY 40509
Subscribed and sworn to before me this		"September 4, 2008
August Culture , Notary Public	NOION PI	Saranye Chandler ublic Howard County, MD nmission Expires 3.22.2011
County of) ss.	Name:	Kirk E. Apt 3874 Paul Mill Road Ellicott City, MD 21042
State of)	By: Date:	
Subscribed and sworn to before me this, Notary Public	day of	_, 2008
County of) ss.		William Robert Barclay 7356 Panorama Drive Boulder, Colorado 80303
State of)	By: Date:	
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County of) ss.	The second	Paul Warren Behrens 11413 Butterfruit Way
) State of)	By: Date:	Ellicott City, MD 21042
Subscribed and sworn to before me this, Notary Public	_day of	_, 2008
County of) ss.	Name: Address:	David Christian Martin 217 Northway Road
) State of)	By: Date:	Reisterstown, MD 21136

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County of)	S S.		James Casey Lippmeier 5364 Racegate Run Columbia, MD 21045
) State of)		By: Date:	
Subscribed and sworn to before me this Notary Publi	day	of	_, 2008

County of		Name	Joseph W. Pfeifer III
)	SS.	Address	776 Nadinos Court
))		. (36.000	Westminster, MD 21157
State of		By:	
		Date:	
Subscribed and puers to before any us			
Subscribed and sworn to before me this, Notary Pul	da	ay of	, 2008
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County of			
County of)	00	Name:	Jon Milton Hansen
	SS.	Audress:	1184 Sheffield Place
State of		By:	Lexington, KY 40509
······································		Date:	
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, Notary Pub	olic		
Course of the second se			
County of Howard)			Kirk E. Apt
State of Mainfand	SS.	Address:	3874 Paul Mill Road
State of Mainly A		_`	Ellicott Çity, MD 21042
(Thursdand)		By:	ph 5.M
0		Date:	9/4/06
Subscribed and sworn to before me this 4	at da	v of Spotsonh	4: 2009
D. Annau Airmon, Notary Pub	lic ua	y or <u>septemp</u>	<u>u</u> , 2008
my commission expires: 11/1/10	10		
County of)		Name:	William Robert Barclay
	SS.	Address:	7356 Panorama Drive
State of		D	Boulder, Colorado 80303
)		By: Date:	
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, Notary Publ	lic		
County of)		Name:	Paul Warren Behrens
ý	SS.		11413 Butterfruit Way
)			Ellicott City, MD 21042
State of		By:	
· · · · · · · · · · · · · · · · · · ·		Date:	
		· · · · ·	
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, Notary Publ	ic		
County of)		Name:	David Christian Martin
)	\$S.	Address:	217 Northway Road
)			Reisterstown, MD 21136
State of)		By:	
		Date:	
Subscribed and sworp to before me this			
		- F	6666
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Dana 7 of 7

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

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County of)		Name:	James Casey Lippmeier	
	j	SS.	Address:	5364 Racegate Run	
	, j			Columbia, MD 21045	
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Subscribe	d and sworn to before me this	day	of	_, 2008	

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County of)	SS.		Joseph W. Pfeifer III 776 Nadines Court
State of)	30.	By: Date:	Westminster, MD 21157
Subscribed and sworn to before me this, Notary Put	da	y of	
County of)	SS.		Jon Milton Hansen 1184 Sheffield Place
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County of)	SS.	Address:	Kirk E. Apt 3874 Paul Mill Road
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County of The Area (Address:	William Robert Barclay 7356 Panorama Drive Boulder, Colorado 80303 12JUL 1. Colorado Fande
Subscribed and sworns before me this Subscribed and sworns before me this A_ dy compission and subscription of the subscripti	5 4 4 day	of <u>Sept.</u>	_, 2008
County of)	SS.		Paul Warren Behrens 11413 Butterfruit Way
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PATENT REEL: 043190 FRAME: 0593

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for which We executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, MARTEK BIOSCIENCES CORPORATION, a corporation of Delaware, whose post office address is 6480 Dobbin Road, Columbia, MD 21045 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional Application No. 60/960,037, filed September 12, 2007, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof, and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No.______, filed _____) the filing date and application number of the application when known.

County of)	SS.	Name: Address:	James Casey Lippmeier 5364 Racegate Run
) State of)		By: Date:	Columbia, MD 21045
Subscribed and sworn to before me this	day	y of	_, 2008

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County of)	SS.		Joseph W. Pfeifer III 776 Nadines Court
State of)		By:	Westminster, MD 21157
Subscriber	d and sworn to before me this _	da	Date:	. 2008
	, Notary Pu	blic	J	
County of)	SS.	Address:	Jon Milton Hansen 1184 Sheffield Place
State of)		By: Date:	Lexington, KY 40509
Subscribed	d and sworn to before me this, Notary Pu	da	iy of	, 2008
)	SS.	Name: Address:	Kirk E. Apt 3874 Paul Mill Road
State of)		By: Date:	Ellicott City, MD 21042
Subscribed	d and swom to before me this, Notary Pu	da	iy of	
))	SS.	Address: By:	William Robert Barclay 7356 Panorama Drive Boulder, Colorado 80303
Subscribe	d and sworn to before me this	da	Date:	, 2008
County of	<u>Howard</u>)	SS.		Paul Warren Behrens 11413 Buttenfruit Way Ellicott City, MD 21042
	<u>Marglanel</u> ;	silliones	By: Date: Soroh E. Cho Wolie: Howo	Paul Wanen Behrem andlor 9/4/08 rd-Coppler, MD
Jarahed	d and sworn to before me this, Notary Pi	ibliMy Col	mmission EX	Dires 5.22.2011
County of)	SS.	Name: Address: By:	David Christian Martin 217 Northway Road Reisterstown, MD 21136
State of Subscribe	d and sworn to before me this, Notary Pi	da da	Date:	, 2008

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

BIOLOGICAL OILS AND PRODUCTION AND USES THEREOF

for which We executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, MARTEK BIOSCIENCES CORPORATION, a corporation of Delaware, whose post office address is 6480 Dobbin Road, Columbia, MD 21045 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional Application No. 60/960,037, filed September 12, 2007, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of the above provisional application, and all extensions, renewals, and reissues thereof; and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No._____, filed _____) the filing date and application number of the application when known.

County of)		Name:	James Casey Lippmeier	
)	SS.	Address:	5364 Racegate Run	
)			Columbia, MD 21045	
State of)		By:		
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Subscribed and sworn to before me this	day	or	_, 2008	
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County of)		Name:	Joseph W. Pfeifer III
)	SS.	Address:	776 Nadines Court
)		_	Westminster, MD 21157
State of)		By:	
		Date:	·
Subscribed and sworn to before me this	da	vof	2008
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Country of		Nomo	Jon Milton Hansen
County of)	SS.		118/ Sheffield Place
	55.	71301 333.	Lexington, KY 40509
State of)		By:	
		Date:	
Subscribed and sworn to before me this	da	y of	_, 2008
, Notary Pub	lic		
County of)		Name:	Kirk E. Apt
)	SŞ.		3874 Paul Mill Road
)			Ellicott City, MD 21042
State of)		By:	,
		Date:	······································
Subscribed and sworn to before me this	da	vof	2008
, Notary Pub	lic Ua	y 01	, 2000
County of)		Name	William Robert Barclay
County or)	SS.		7356 Panorama Drive
		1.44.0001	Boulder, Colorado 80303
State of		By:	
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Subscribed and sworn to before me this	da	y of	, 2008
, Notary Pub	lic		
•			
County of)			Paul Warren Behrens
)	SS.	Address:	11413 Butterfruit Way
)		0	Ellicott City, MD 21042
State of)	•	By: Deter	
		Date:	,
Subscribed and sworn to before me this	da	vof	. 2008
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Country of Llowourd		Name:	David Christian Martin
County of Howard	SS.		217 Northway Road
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RECORDED: 08/03/2017

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