502798431 05/07/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2845027

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RYUTA SUZUKI	05/07/2014
GERHARD PFAFF	05/07/2014
SABINE SCHOEN	05/07/2014
FUMIKO SASAKI	05/07/2014
SATORU KOBAYASHI	05/07/2014
KOSHIRO KUNII	05/07/2014
YUJI TAKENAKA	05/07/2014
KATSUHISA NITTA	05/07/2014

RECEIVING PARTY DATA

Name:	MERCK PATENT GMBH
Street Address:	FRANKFURTER STRASSE 250
City:	DARMSTADT
State/Country:	GERMANY
Postal Code:	64293

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14261458

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

 Phone:
 703-243-6333

 Email:
 mail@mwzb.com

Correspondent Name: MILLEN, WHITE, ZELANO & BRANIGAN (MIA)

Address Line 1: 2200 CLARENDON BLVD

Address Line 2: SUITE 1400

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	MERCK-4194
NAME OF SUBMITTER:	MICHAIAH COPP
SIGNATURE:	/Michaiah Copp/

DATE SIGNED:	05/07/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8		
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source=4194_EXECUTED_Dual_Assigr	n_Dec#page7.tif	
source=4194_EXECUTED_Dual_Assigr	n_Dec#page8.tif	

Title of Invention	α-Alum	nina flakes					
As the below nan	As the below named inventor, I hereby declare that:						
This declaration		The attached app	lication, or		14	4/261,458	04/25/2014
is directed to:		United States Ap	plication or PC	f Internations	l Applicati	ion number	04/25/2014 _filed on
The above-identit	fied applic	ation was made or	authorized to b	e made by me	,		
I believe that I am	the origi	nal inventor or an	original joint inv	entor of a cla	imed inver	ntion in the appli	cation.
AND WHEREAS		757 77 77 28 77 78 78 78 78 78 78 78 78 78 78 78 78	12:				
	1	Merck Patent Gmb Frankfurter Strasse 54293 Darmstadt /	250				
all patent(s) listed	ed to as the l above, in	e ASSIGNEE, is d	esirous of acqui Learlier priority	rights (U.S.;	and foreign	e, and interest in and and a	and to said invention and continuations thereof,
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all renewals, reissues, reexaminations and extensions thereof. for the use and benefit of ASSIGNOE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.							
AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with securing Letters Patents thereon.							
AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.							
The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.							
IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR							
Thereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.							
LEGAL NAME (05/07/20	i A
Inventor:	Cyuta Suz	(1K)		······································	Date:	441 A (1.80)	
Signature:	_2442		<u> </u>				

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone; 703,243,6333 | Pax: 703,243,6410 Email; mail@mwzb.com

Effective, September 16, 2012

Ittle of Invention	-Alumina flakes
As the below nan	inventor, I hereby declare that:
This declaration	☐ The attached application, or 14/261, 458 04/25/2014
is directed to:	₩ United States Application or PCT International Application number filed on
The above-identit	spelication was made or authorized to be made by me.
I believe that I am	e original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
	Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE
all patent(s) listed	o as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and extensions thereof.
ASSIGNOR herel right, title and inte and all Letters Pat thereof, and in and to accrue with resinvention, SAID / including any and which may be graright to sue for darsing from or ap renewals, reissues representatives, in enjoyed the same,	TNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive st in and to said invention and patent(s), including any and all divisions and continuations thereof, and any twhich may be granted therefor, including any and all renewals, reissues, reexaminations and extensions of any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or at to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said SIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent of therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the ges occurring before the assignment, with all the rights, powers, privileges and advantages in anywise taining thereto, for and during the term or terms of any and all such Letters Patent, including any and all reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and the assignment had not been made.
and foreign countr	IGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to pers that may be needed in connection with securing Letters Patents thereon.
AND A! any and all divisio	GNOR authorizes and requests the Commissioner of Patents and Trademarks to Issue a Letters Patent on and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
The und assignment inform properly record the	igned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this on which may be necessary or desirable in order for the United States Patent and Trademark Office to locument.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I hereby fine or imprisonme	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by of not more than five (5) years, or both.
LEGAL NAME O	NVENTOR
	nard Pfaff Date: 05/07/2014
Signature:	-1-14-1//

Millen, White, Zelano & Brankian, P.C.
Attorneys at Law
Arlington Courthouse Plaza.
2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201
Telephone: 703.243.6333 | Fax: 703.243.6410
Email: mail@mwzb.com

Effective, September 16, 2012

Invention	α-Alun	nina flakes			
As the below nam	red invent	or, I hereby declare that:			······································
This declaration		The attached application, or		14/261,458	04/25/2014
is directed to:	22	United States Application or PC	l International Appl	ication number	
The above-identif	led applic	ation was made or authorized to be			
I believe that I am	the origi	nal inventor or an original joint inv	rentor of a claimed is	vention in the appli	cation.
AND WHEREAS					
	1	Merck Patent GmbH Frankfurter Strasse 250 4293 Darmstadt / DE			
all patent(s) listed	above, in	e ASSIGNEE, is desirous of acquire cluding any and all earlier priority als, reissues, reexaminations and e	rights (U.S. and for	title, and interest in eign), divisions and	and to said invention and continuations thereof;
ASSIGNOR heret right, title and inte and all Letters Pat thereof, and in and to accrue with resinvention, SAID A including any and which may be grainght to sue for daily arising from or apprenewals, reissues, representatives, in enjoyed the same, AND AS and foreign country	by assigns erest in an ent which I to any a pect to the ASSIGNE all earlier mages occ pertaining as ample if the ass SSIGNOR ies for sa	ETH that for good and valuable or, sells, and transfers to ASSIGNEE d to said invention and patent(s), is may be granted therefor, including and all U.S. (including provisional) is filing or securing of patents in the E, its assigns and legal representation priority rights (U.S. and foreign), for, including any and all renewals surring before the assignment, with thereto, for and during the term of nations and extensions thereof, for and beneficial a manner to all integrament had not been made. It hereby agrees to execute all paper is the properties of the same at may be needed in connection with	I, its assigns and leg- neluding any and all g any and all renewa or foreign priority as t United States and/o ives to have, hold, et divisions and continu , reissues, reexamina all the rights, power terms of any and all the use and benefit onts and purposes as t ers that may be necess to said ASSIGNEE	al representatives, the divisions and continued to the convention right and convention right and convention right and convention right and conventions and entities and additions and extension ris, privileges and additional Letters Patent of ASSIGNEE and in the ASSIGNOR mights asked to file applications and the applications are applications.	ne entire and exclusive inuations thereof, and any inations and extensions this or benefits accruing or ign thereto concerning said aid invention and patent, and all Letters Patent is thereof, including the vantages in anywise t, including any and all its assigns and legal the or could have held and ons in the United States.
AND AS any and all divisio	SSIGNOR ns and co	t authorizes and requests the Comm ntinuations thereof, to ASSIGNEE	nissioner of Patents , its assigns and lega	and Trademarks to i I representatives, in	ssue a Letters Patent on accordance herewith.
The understanding assignment inform properly record this	ation whi	ncreby grani(s) the law firm of Mill th may be necessary or desirable in art.	ien, White, Zelano & n order for the Unite	Branigan, P.C. the d States Patent and	power to insert on this Frademark Office to
		N TESTIMONY WHEREOF this	assignment is execu	ted by ASSIGNOR	
I hereby fine or imprisonme	acknowle int of not	dge that any willful false statemen more than five (5) years, or both.	t made in this declar	ation is punishable t	mder 18 U.S.C. 1001 by
LEGAL NAME O				With Visite Association	
Inventor: Sa	bine Sch		Date:	05/07/201	-4
Signature:	<u>محکد</u>	ioni Bani			

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Couethouse Plaza
2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201
Telephone: 703,243,6333 | Fax: 703,243,6410
Email: mail@mwzb.com

Effective, September 16, 2012

Interest Invention	α-Alumina flakes
As the below nen	ted inventor, I hereby declare that:
This declaration	☐ The attached application, or
is directed to:	United States Application or PCT International Application numberfiled on
The above-identif	fied application was made or authorized to be made by me.
	the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
	Merck Patent GmbH Frankfurier Strasse 250 64293 Datmstadt / OE
an hammin's) motori	d to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
right, title and inte and all Letters Pat thereof, and in and to accrue with respinvention, SAID A including any and which may be graitight to sue for dararising from or apprenewals, reissues, representatives, in enjoyed the same, AND AS and foreign countrexecute any other particular and the same of the	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any ent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions it to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or pect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, all earlier priority rights (U.S. and foreign),divisions and continuations thereof, any and all Letters Patent need therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the mages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise pertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all a reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and if the assignment had not been made. SSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States ies for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to papers that may be needed in connection with securing Letters Patents thereon. SSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on as and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
The unde	ersigned hereby grant(s) the law firm of Millen. White, Zelano & Branigan, P.C. the power to insert on this ation which may be necessary or desirable in order for the United States Patent and Trademark Office to
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I hereby if fine or imprisonme	acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by mt of not more than five (5) years, or both.
LEGAL NAME OF	
Inventor. Fu	miko Sasaki Date: 05/07/2014
Signature:	<u> </u>

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boblevaro | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410 Email: Mail@mwzb.com

Effective, September 16, 2012

Title of Invention	α-Alumina flakes
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or 14/261, 458 04/25/2014
is directed to:	United States Application or PCT International Application number filed on
The above-identif	fied application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
in Villa a	Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE
all patent(s) listed	nd to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all cartier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR herel right, title and into and all Letters Pat thereof, and in and to accrue with response invention, SAID / including any and which may be graright to sue for dar arising from or aprenewals, reissues representatives, in enjoyed the same, AND As and foreign countrexecute any other AND AS	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive crest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any tent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions at to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or pect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, all earlier priority rights (U.S. and foreign),divisions and continuations thereof, any and all Letters Patent and therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the mages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise pertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and if the assignment had not been made. SSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States ries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to papers that may be needed in connection with securing Letters Patents thereon. SSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on as and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
The und assignment inform properly record thin	ersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this ation which may be necessary or desirable in order for the United States Patent and Trademark Office to is document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I hereby fine or imprisonme	acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ent of not more than five (5) years, or both.
LEGAL NAME O	
Inventor: Si	storu Kobayashi Date: 05/07/2014
Signature:	Satoru Kobryaski

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. ATTORNEYS AT LAW ARLINGTON COURTHOUSE PLAZA 2200 CLARENDON BOULEVARD (STATE 1400) ARLINGTON VA 22201 TELEPHONE: 703.243.6333 | FAX: 703.243.6410

EMAIL: MAIL@MWZ8.COM

Effective, September 16, 2012

Invention	α-Atumina flakes
As the below nam	ed inventor, I hereby declare that:
This declaration	☐ The attached application, or
is directed to:	United States Application or PCT International Application number filed on filed on
The above-identif	ed application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
	Merck Patent GmbH
	Frankfurter Strasse 250 64293 Darmstadt / DE
an paiches) usee	I to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
ASSIONOR heret right, title and inte and all Letters Pat thereof, and in and to accrue with rest invention, SAID A including any and which may be graining from or apprenewals, reissues, representatives, in enjoyed the same, AND AS and foreign countrexecute any other part of the same and all divisions. The under the same and all divisions.	A TOTAL
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LEGAL NAME OF	and the second s
	shiro Kunii Dane: 05/07/2014
Signature:	Entero Maria

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
ATTORNEYS AT LAW
ARLINGTON COERTHOUSE PLAZA
2200 CLARENDON BOLLEVARD | SUITE 1400 | ARLINGTON VA 22201
TELEPHONE: 703.243.6333 | FAX: 703.243.6410
EMAIL: MAIL@MWZB.COM

Effective, September 16, 2012

Invention	α-Alumine flakes	
As the below narr	ned inventor, I hereby declare that:	
This declaration	The attached application, or	ANTONIA ARM
is directed to:	■ United States Application or I	14/261,458 04/25/2014 PCT International Application numberfiled on
The above-identif	ied application was made or authorized to	
		inventor of a claimed invention in the application.
AND WHEREAS		A CONTRACT NO THE STANCE OF TH
	Merck Patent GmbH	
	Frankfurter Strasse 250 64293 Darmstadt / DE	
an patent(s) listed	d to as the ASSIGNEE, is desirous of acc	puiring the entire right, title, and interest in and to said invention and ity rights (U.S. and foreign), divisions and continuations thereof, d extensions thereof.
ASSIGNOR herest right, title and inte and all Letters Pat thereof, and in and to accrue with rest invention, SAID A including any and which may be grar right to sue for dar arising from or apprenewals, reissues, representatives, in enjoyed the same, AND AS and foreign countrexecute any other part and all division.	by assigns, sells, and transfers to ASSIGN crest in and to said invention and patent(s) ent which may be granted therefor, includ it to any and all U.S. (including provisions pect to the filing or securing of patents in ASSIGNEE, its assigns and legal represental earlier priority rights (U.S. and foreign med therefor, including any and all renew mages occurring before the assignment, who pertaining thereto, for and during the term, reexaminations and extensions thereof, if as ample and beneficial a manner to all in if the assignment had not been made. SSIGNOR hereby agrees to execute all parties for said invention and to assign the said papers that may be needed in connection and continuations thereof, to ASSIGNI ersigned hereby grant(s) the law firm of Mation which may be necessary or desirable	consideration, the receipt whereof is hereby acknowledged. (EE, its assigns and legal representatives, the entire and exclusive is including any and all divisions and continuations thereof, and any ling any and all renewals, reissues, reexaminations and extensions all) or foreign priority and/or convention rights or benefits accruing or the United States and/or any countries foreign thereto concerning said tastives to have, hold, exercise, and enjoy said invention and patent, it), divisions and continuations thereof, any and all Letters Patent als, reissues, reexaminations and extensions thereof, including the rith all the rights, powers, privileges and advantages in any wise or terms of any and all such Letters Patent, including any and all or the use and benefit of ASSIGNEE and its assigns and legal ments and purposes as the ASSIGNOR might or could have held and pers that may be necessary to file applications in the United States me to said ASSIGNEE, its assigns and legal representatives and to with securing Letters Patents thereon. Immissioner of Patents and Trademarks to issue a Letters Patent on EE, its assigns and legal representatives, in accordance herewith. Itilien, White, Zelano & Branigan, P.C. the power to insert on this e in order for the United States Patent and Trademark Office to
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I hereby fine or imprisonme	acknowledge that any willful false statement of not more than five (5) years, or both	ent made in this declaration is punishable under 18 U.S.C. 1001 by t.
LEGAL NAME OF	F INVENTOR uji Takenaka	Date: 05/07/2014
Signature:	Ynji Tokenak	Dies.

MILLER, WHITE, ZELANO & BRANIGAN, P.C. ATTORNEYS AT LAW ARLINGTON COURTHOUSE PLAZA 2200 CLARENDON BOULEVARD | SUITE 1400 | ARLINGTON VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410

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	64293 Darmstadt / DE
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LEGAL NAME OF	A military and a second a second and a second a second and a second an
	tsuhisa Nitta Date: 05/97/2014
Signature:	<u> </u>

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
ATTORNEYS AT LAW
ARLINGTON COURTHOLISE PLAZA
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EMAIL: MAIL@MWZB.COM

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PATENT REEL: 032838 FRAME: 0229

RECORDED: 05/07/2014